From the President...

Welcome to MJC!

Modesto Junior College is committed to your access to a high quality college education. It is our hope that this catalog will provide you with the information you need to make informed decisions about your academic career at MJC. Whether your goal is to transfer to a university, complete an associate’s degree, train for a vocational career or upgrade your job skills, we want to help you achieve your educational objectives.

Our college mission statement reflects our emphasis on being an institution of “student-centered learning.” The faculty, staff and administrators at Modesto Junior College are dedicated to providing you with both the academically rigorous coursework and excellent student support services you need to be successful.

Modesto Junior College is also proud of its tradition of providing student learning opportunities outside the classroom. Thought-provoking speakers, cultural and ethnic celebrations, art exhibits, concerts, plays, poetry readings and more are offered on campus to enrich your learning experience. MJC also offers 21 intercollegiate athletic teams, an active student government and a variety of student clubs and honor societies in which students can participate.

If you are wondering how you will be able to pay for college, please visit the MJC Financial Aid Office. You may be eligible for an array of financial assistance, including fee waivers, Pell Grants, Cal-Grants, work-study and scholarships. Our financial aid representatives can show you how to apply for free financial assistance to attend college!

I encourage you to explore the multitude of college classes, activities and resources available at MJC and to take advantage of as many of these opportunities as you can. We look forward to helping you realize your plans for a bright and promising future!

Dr. William T. Scroggins
Interim President
Modesto Junior College
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## 2006-2007 Academic Calendar

### SUMMER TERM 2006
- **May 8** Summer Term begins
- **May 21** Last day to drop full-term class and be eligible for a refund
- **May 29** Memorial Day (College closed)
- **June 1** Last day to withdraw from full-term class without a W
- **June 6** Last Day to file for CR/NC option for full-term class
- **July 4** Independence Day (College closed)
- **July 25** Last day to withdraw from full-term class

### FALL SEMESTER 2006
- **August 28** Fall semester begins
- **September 4** Labor Day (College closed)
- **September 10** Last day to drop full-term class and be eligible for a refund
- **September 24** Last day to withdraw from full-term class without a W
- **September 26** Last day to file for CR/NC option for full-term class
- **November 10,11** Veterans Day (College closed)
- **November 16** Last day to withdraw from a full-term class
- **November 22** No night classes
- **November 23-26** Thanksgiving break (College closed)
- **December 11-16** Final examinations week
- **December 16** Last day of the Fall semester

### SPRING SEMESTER 2007
- **January 8** Spring Semester begins
- **January 15** Martin Luther King Jr. holiday (College closed)
- **January 21** Last day to drop full-term class and be eligible for a refund
- **February 4** Last day to withdraw from full-term class without a W
- **February 9** Last day to file for CR/NC option for full-term class
- **February 16** Lincoln Day (College closed)
- **February 17-18** No classes.
- **February 19** Washington Day (College closed)
- **April 2** Last day to withdraw from a full-term class
- **April 23-28** Final examinations week
- **April 27** Graduation
- **April 28** Last day of the Spring semester
General Information

Everything you need to know about MJC.
History of MJC

Modesto Junior College, one of the oldest community colleges in the state, was organized in 1921 to serve the first junior college district established under a State Legislature Enabling Act.

Modesto Junior College was established to meet the needs of the community. Today the college strives to maintain the same objective—that of dedication and service to the community.

The College began with a charter enrollment of 61 students. Through the years registration has increased until today more than 17,000 day and evening students are enrolled. In addition, more than 9,000 community participants take advantage of the ever-growing Community Education program.

To complement student growth, the campus has grown as well. The college holds the distinction of having erected the first junior college classroom building in the state. From this modest beginning, MJC has grown until it now provides an outstanding learning environment on two sites: the original MJC-East on College Avenue and MJC-West on Blue Gum Avenue northwest of Modesto. In addition to the two sites, more than 20 community sites are used to meet particular educational needs.

The area boundaries have also changed. In 1964, by action of the electorate, the boundaries were enlarged to include nearly 4,000 square miles, encompassing high school districts in Stanislaus and Tuolumne Counties, the Ripon High School District in San Joaquin County, the Gustine and Hilmar High School Districts in Merced County and the Haney Elementary School District in Santa Clara County. The district also includes the Bret Harte Union High School District, the former Copperopolis Elementary School District and the former Salt Spring Valley Elementary School District in Calaveras County.

A Board of Trustees was elected in 1964 to govern the affairs of the expanded district. In 1965 the name Yosemite Junior College District was selected. It was later changed to Yosemite Community College District.

The Yosemite Community College District also includes Columbia College, located in Columbia, California.

MJC Mission Statement

Modesto Junior College has a mission of student-centered learning and success. MJC is committed to serving its diverse community through high quality transfer, vocational, and general education programs. The college assesses student outcomes and uses the results to improve teaching, learning and support services. The college also offers activities designed to improve the quality of life for citizens of the Yosemite Community College District.

MJC offers comprehensive educational and support programs enabling students to achieve personal as well as academic potential. Particular attention is given to groups and individuals with special needs.

Modesto Junior College staff members are committed to meeting student needs by:

- Recognizing our students as individuals requiring responsive, diverse and flexible educational, career preparation, personal development and life-long learning opportunities.
- Providing excellence in instruction and support services.
- Creating an intellectually and culturally stimulating atmosphere for students, staff and community.
- Advancing the economic development and quality of life in our community.
- Providing opportunities for personal and professional development for all college employees.

MJC's Statement of Objectives

- Transferable courses will be offered for students who later wish to earn a baccalaureate degree.
- Courses will be offered for students who wish to earn AA/AS degrees.
Welcome to MJC

- Programs will be offered to prepare students to enter specific occupations.
- Courses and programs will be offered to improve workers’ job performance, to upgrade job skills, to prepare workers for expanding information bases and changing skills requirements, and to assist persons in transition to new occupations.
- Guidance and counseling services will be offered to assist students in making decisions that may affect their education, career, cultural advancement and general well being.
- Opportunities will be made available for students to become involved in school activities and governance.
- Equal educational access will be insured for disabled as well as academic and economically disadvantaged individuals. Support services and classes will be offered to meet their special needs.
- Activities and special events will be offered which encourage alumni involvement in MJC and acknowledge their contributions to school traditions.
- Special services designed to improve the quality of life in the community and to promote life-long learning will be available.
- MJC staff will make global education experiences available through international curriculum, study abroad, and the presence of foreign students on campus.
- The College will continue faculty and staff recruitment programs to identify, locate and hire members of underrepresented groups, and to increase equal opportunity employment.
- The best possible instructional and support services – including, but not limited to, adequate supplies, sufficient and appropriate facilities, and technologically current equipment – will be maintained.
- Programs and opportunities to develop employees’ professional knowledge and abilities will be maintained.
- The College will make efforts to implement legislative mandates, in a timely and effective manner, as well as other directives placed upon it by federal, state and local policy-making bodies.
- Recommendations from the accreditation process will be addressed.
- The state-mandated matriculation plan will be continued to insure student success.
- Annual special priorities will be established.

Accreditation

Modesto Junior College is accredited by the Western Association of Schools and Colleges and approved by the State Department of Education for training veterans. MJC is authorized under Federal law to enroll non-immigrant, alien students.

Students who complete appropriate lower division courses are given full credit on transfer to the California State Universities, the University of California, and other four-year colleges and universities which maintain articulation agreements with the college.

A Comprehensive Community College

Consistent with its philosophy of serving the educational needs of all people who reside in the area served by the College, a wide range of programs and individual courses has been developed.

Credit and non-credit courses are offered day and evening as well as on Saturdays on the college sites and at locations throughout the college district. Some courses are also offered online and on video or via video-streaming.

Credit courses fulfill requirements leading to degrees, diplomas and certificates.

Non-credit courses are designed for members of the community who wish to develop or improve their skills and supplement their general knowledge. These courses do not fulfill requirements leading to degrees, diplomas or certificates.

Community Education classes, tours and trips are participant fee-funded and carry no unit value. Such classes may be offered in the areas of a vocational, recreational, and in-service training interests of the participants.

HECCC

The Higher Education Consortium of Central California (HECCC), established in 1981, is a partnership of two universities and four community colleges committed to the advancement of academic excellence in a distinctly diverse region. Through dynamic and evolving collaborations, member institutions combine resources, share intellectual capital, facilitate innovative projects, promote professional development, and increase equitable access to higher education. HECCC members include California State University, Stanislaus; Merced College; San Joaquin Delta College, University of California, Merced; and the Yosemite Community College District, which includes Modesto Junior College and Columbia College.

HECCC Equivalency Grids exist to aid students in understanding the value of their coursework between participating institutions. For more information, click heccc.deltacollege.org. Pull down the Articulation & Transfer tab to view the grids.

RECIROCITY OF GENERAL EDUCATION REQUIREMENTS

General Education (GE) breadth courses that have been completed and certified at Columbia College, Merced College, or San Joaquin Delta College in fulfillment of a GE category for an Associate of Arts or Associate of Science degree will be accepted in lieu of the corresponding GE category requirement at MJC, and therefore, satisfy that requirement.
Types of Awards

ASSOCIATE DEGREES
Classes leading to the Associate in Arts degree or the Associate in Science degree are offered during the day, in the evening, and on Saturday. Courses are also offered in an array of formats, including online, telecourses, off-campus, open-entry/open exit, and late-start. See Instructional Programs for more information.

CERTIFICATES OF ACHIEVEMENT
Certificates are awarded to students in recognition of their completion of specialized work in many areas such as agriculture, supervisory training, real estate, fire science, dental and medical assisting, Shakespeare studies, and speech communication. See Instructional Programs for more information.

Educational Programs
The college offers courses designed to meet many diverse interests, educational needs, and vocational needs of its students. College programs are designed to meet particular needs and may consist of one course or a series of courses leading to a certificate, an Associate degree, or providing the first two years toward a Bachelor’s degree.

Courses in art, literature, humanities, foreign languages, music, drama and speech provide cultural enrichment for MJC students and the community. Music instruction, for example, is offered for beginners as well as for those who already have a high level of proficiency, and performances by such groups as the Masterworks Chorus and Jazz Ensemble are examples of the cultural events offered to the community. All students are encouraged to participate in college community activities such as student government, athletics, debates, art shows, music programs, journalism, and tutoring.

Those who wish to broaden their horizons and to become more aware of themselves and the world about them, will be drawn to offerings in health education, consumer education, psychology, child development, sociology, speech, conservation, valley plant life, science, art appreciation, and physical activities.

Agricultural offerings include technician training courses as well as courses designed for persons anticipating employment or already employed in the field of agriculture. An advisory committee also serves the community services program.

Business courses which meet occupational requirements of the community are offered in office administration, clerical training, accounting, computer science, computer graphics applications, and business operations. Certificate programs are available in several areas.

Public service instruction is provided in administration of justice, allied health, criminology, and fire science.

Vocational programs prepare students for entry employment in such fields as law enforcement, animal husbandry, crop production, agricultural mechanics, office administration, computer science, computer graphics applications (desktop publishing and microcomputer graphics), printing, automotive technology, electronics, nursing, machine shop, vocational accounting, human services, engineering technology, dental assisting, and broadcasting. Advisory committees serve the college in the development of vocational programs by helping to determine the need for and the content of occupationally-oriented courses. Industrial technology programs are available in apprenticeship and technical fields. Courses are geared to the needs of industry and are modified as community needs change.

Other courses are designed to assist the individual in skills development. These include, among others, reading improvement, effective study skills, listening improvement, career awareness, job employment skills, introduction to mathematics, and pre-algebra. English-as-a-Second-Language is offered for non-native speakers of English who desire to learn English or to improve their proficiency.

Each year several hundred students transfer to four-year colleges and universities to continue their education toward Bachelors’ degrees. Modesto Junior College has earned a strong reputation statewide for its lower division preparation. Students who properly plan courses of study in their major and general education requirements are able to continue into their junior year in most majors with no loss of time or credit.

Articulation of Courses between Institutions
When the word “articulation” is used in education, it often has different meanings and connotations depending on the setting. Articulation at MJC refers to courses and the process of developing a formal, written and published agreement that identifies courses (or sequences of courses) on the MJC campus that are comparable or acceptable in lieu of specific requirements at another campus, often called the “transfer” or “target institution.” Successful completion of an articulated course assures the student and the faculty that the student has taken the appropriate course, received the necessary instruction and preparation, and that similar outcomes can be assured enabling progression to the next level of instruction at the transfer institution.

Adapted from: 2001 California Articulation Policies and Procedures Handbook
Community Education

EAST CAMPUS: Morris Building, 204
Phone: (209) 575-6063
FAX: (209) 575-6025
Email: MJC_COMMUNITYED@mjc.edu
Website: www.mjc.edu/communityed
Hours: M-Th 8:00 AM – 6:00 PM F 8:00 AM – 5:00 PM
Summer Hours: M-Th 7:30 AM – 5:30 PM F CLOSED

The division of Community Education at Modesto Junior College offers, fully fee-funded, not-for-credit vocational classes for all ages, which lie beyond formalized classroom instruction. Educational Travel, Recreational and Certificated programs along with, Older Adult and Modesto Institute for Continued Learning (MICL) are also run through Community Education.

To better serve the needs of the entire community, our division is looking to expand our reach by providing classes off-campus. Please contact our office and find out how you can become a Community Education site. To receive a copy of our published schedule please call or visit our website.

Workforce Training Center

WEST CAMPUS: El Capitan Center
Phone: (209) 575-6386
FAX: (209) 575-6943
Hours: M-Th 8:00 AM – 5:00 PM F 8:00 AM – 5:00 PM
Summer Hours: M-Th 7:30 AM – 5:30 PM F CLOSED

The Modesto Junior College Workforce Training Center assists the college in reaching its mission of enhancing economic development and life-long learning in our community through three programmatic areas:

CORPORATE TRAINING & CORPORATE COLLEGE

Customized training and performance consulting services provided at low cost for all sizes of businesses, government agencies and non-profits. Customized curriculum, organizational development, supervisory training, business plan development, cost reduction strategies, and return on investment evaluations all offered at competitive pricing by a well respected local provider of training services. Manufacturing customized training includes state-of-the-art accelerated courses in PLC Troubleshooting, Adjustable Frequency Drives, Industrial Controls, Forklift Training, and MUCH MORE. Company focused degree and certificate programs are also offered on a fee-for-service basis at the company’s site. Call for additional information.

SERVICE LEARNING THROUGH AMERICORPS

The Workforce Training Center promotes service-learning opportunities to 140 MJC students through the AmeriCorps National Service program. There are two AmeriCorps programs on campus. The Foster Youth Mentoring Program serves foster youth (ages 14-18), assisting them with independent living skills to help prepare them for emancipation. The Early Childhood Literacy Program serves pre-school children (ages 3-5) in literacy programs throughout the county.

INTERNATIONAL CONTRACT PROGRAMS

Phone: (209) 575-6392 or (209) 575-6795
email: elizabeth@mjc.edu

The International Contract Programs Unit coordinates grant funds which provide international education programs to visiting scholars and business persons. Currently, MJC subcontracts with the Center for Intercultural Education and Development (CIED) at Georgetown University which administers funds received from United States Agency for International Development (USAID) to provide degree programs to the participants of the Cooperative Association of States for Scholarships (CASS) students from Central America, Mexico, and the Caribbean. This unit also contracts with the Japan Agricultural Exchange Council (JAEC) to provide short term training to agriculture students from Japan.

WELFARE TO WORK

The Workforce Training Center is a key provider of services to welfare recipients on and off campus. Services include: customized training, GED preparation, work experience, job retention training, and specialized vocational training.
Admission to MJC

**Admissions Offices**

**East Campus:** Student Center  
Phone: (209) 575-6013  
Registration Hotline: (209) 575-6853  
FAX: (209) 575-6859  
Hours: M-Th 8:00 AM - 5:00 PM  
Summer Hours: M-Th 7:30 AM - 5:30 PM  
F 8:00 AM - 4:30 PM  
CLOSING TIMES:

**WEST CAMPUS:** Yosemite Hall  
Phone: (209) 575-7727  
Hours: M-F 8:00 AM - 4:30 PM  
Summer Hours: M-Th 7:30 AM - 5:30 PM  
F CLOSED

**MAILING ADDRESS:**  
MJC Admissions Office  
435 College Avenue  
Modesto, CA 95350-5800

**Who is Eligible for Admission?**

Any person who meets at least one of the following requirements is eligible to attend Modesto Junior College:

- Has graduated from an accredited high school, includes students who have received high school certificates of completion (or equivalent) but did not pass the California High School Exit Exam.
- Has passed the California High School Proficiency or the GED test.
- Is a non-high school graduate 18 years of age or older who is no longer attending high school; who is able to benefit from instruction.
- Is a 7th-12th grade student who is at least 14 years old, who has met all established special conditions set forth in the policies of Yosemite Community College District, has written permission from the high school principal (or junior high school superintendent) and parent or legal guardian.
- Is an international student who has completed admission procedures for international students.

**How to Apply for Admission**

Persons who have never attended MJC must submit an Application for Admission. Students can either apply by completing an Admissions Application available in the Admissions Office or by completing an Admissions Application on the Internet at www.mjc.edu. When the application has been completed, it should be submitted either electronically, in person, or mailed directly to the Admissions Office. When the application has been processed, new students will be assigned a registration appointment for the term requested, as well as provided with information regarding assessment, orientation, and advising.

Any student who has attended MJC within the past year is considered a continuing student and is, therefore, not required to complete another application or update form. As long as a student is considered to be a continuing student, registration appointments will automatically be assigned. However, any student who once attended MJC, but not within the past year, must complete a Returning Student Update Form to reactivate their registration eligibility. The Returning Student Update Form is available in the Admissions Office, as well as on the MJC website (www.mjc.edu). When the form has been processed, returning students will be issued a registration appointment for the term requested, as well as provided with information regarding assessment, orientation, and advising.

Junior high, high school, international students and students being readmitted following dismissal must follow admission requirements on the following pages.

Students should arrange to have one official transcript of all previous high school and college work mailed to the MJC Records Office. High school seniors may request their school to send their transcripts at the close of their graduating year. Students who plan to use completed courses from other schools/colleges to satisfy MJC prerequisites, must have official transcripts at the MJC Records Office at least six weeks prior to their registration appointment.

The MJC Records Office will accept hand-carried transcripts that are in an unopened and sealed envelope from the student’s high school and/or college. Transcripts received by MJC become the property of the college and will not be returned or copied for the student.

Students who are concurrently enrolled at Columbia College and who wish to enroll at MJC should consult with the Columbia College Admissions Office. They will make arrangements with MJC for authorization. Columbia students may use Columbia College assessment scores to satisfy MJC assessment requirements.

**California Residency Requirement**

In order to determine California residency during the application process, students are sometimes required to submit copies of INS documentation or documentation showing intent to make California their permanent residence.

New and returning students are classified as either a California resident or a California non-resident for tuition purposes. Residency is determined when a student applies for admission to the college.
A “non-resident” is a person who has not resided in California for the full one-year period before the residence determination date (first day of classes for each semester). Nonresident students are required to pay $160 per unit tuition, in addition to their other fees. Non-resident tuition is refundable, upon withdrawal from classes, in accordance with the tuition refund policy.

Residency is determined by the length of physical presence in the State of California (minimum of one year and one day prior to the first day of the semester or summer session) and the “intent” to make California one’s residence. Students who have resided in California fewer than two years should submit two proofs from the following list with their Admissions Application:

- Owning or renting residential property in California for personal use;
- Registering to vote in California;
- Paying California State income taxes;
- Possessing a California driver’s license or identification card;
- Registering a motor vehicle in California;
- Having an active checking and/or savings account in a California bank;
- Other proofs of intent may be considered by the college.

Active duty military students and their dependents residing in California are considered California residents. Credentialed employees and their dependents, migrant agricultural workers and their dependents may also be considered California residents for educational purposes.

Members of the armed forces who were stationed in California on active duty for more than one year prior to being discharged from the service may be classified as a resident for up to one year if they live in California after being discharged.

Non-citizen students, if their visa does not preclude them from establishing residency in the United States, may be classified as residents if they have resided in California more than one year and if INS documents were issued or approved more than one year prior to the beginning of the term.

Examples of INS documentation that may be requested include:

- Resident Alien Card
- Permanent Resident Card
- I-94 Form
- Visa
- Passport
- Temporary Resident Card

Students whose INS documents were issued less than one year and one day prior to the start of the semester will be considered non-residents for tuition purposes.

**AB 540 - Exemption from Non-Resident Tuition**

Consistent with AB 540, non-resident students, who meet all of the following requirements, can be exempted from paying non-resident tuition. Students who are exempted from paying non-resident tuition (pursuant to Section 68130.5 and Section 68130.7 of the California Education Code) do not become residents for eligibility purposes for any state-funded program.

**Students who meet all of the following criteria may be exempted from paying non-resident tuition:**

1. The student must have attended a California high school for three or more years.
2. The student must have graduated from a California high school or attained the equivalent thereof.
3. In the case of a student without lawful immigration status, an affidavit must be filed with the college that indicates the student has applied for legalization or will do so as soon as the student is eligible to do so.

Students who are non-immigrant aliens (the most common being the F series student Visas and B series visitor visas) are not eligible for this exemption.

**How to Appeal Residency Status**

**MJC Registration Hotline:** (209) 575-6853

Prospective students wishing to appeal residency status requirements must first complete an Application for Admission. Once residency has been determined by the Admissions Office, students may then appeal their status in the Admissions Office by completing a Residency Consideration Form. Appeals will be answered in writing and will be final. International students whose visas preclude establishment of residency will not be granted an appeal. For questions about residency, telephone the Registration Hotline.

Continuing students whose residency status may change in a future term should complete a Residency Consideration Form in the Admissions Office. Students may be asked to provide supporting documentation. With appropriate documentation, if the change status is approved, Admissions staff can make the change immediately.

**Admission of 7th through 8th Grade Students (who are at least 14 years of age)**

Advanced admission is granted for academically superior 7th and 8th grade students who are at least 14 years old by the start of the semester for which they are applying. In order to be eligible to enroll in college-level courses (credit courses numbered 50 or higher), 7th-8th grade students must have met all the established special conditions set forth in the Yosemite Community College District Board Policy & Procedures.

The school district principal or designee must determine that the petitioner is capable of benefitting from advanced scholastic or vocational (college level) work.

7th-8th grade students, who are at least 14 years old by the start of the semester for which they are applying, may be determined to be eligible for advanced admission in MJC college-level courses (MJC credit courses numbered 50 or higher) if the school district of residence does not provide courses of advanced scholastic or vocational study to benefit the petitioner, and if student has
submitted a Modesto Junior College Application for Admission, a completed Petition for Advanced Admission form, a Health Consent form, a letter of recommendation signed by their principal, and they have demonstrated an English 101 ability on the MJC Assessment Test. All students must satisfy class prerequisites, if necessary.

7th-8th grade students who wish to enroll in more than 11 units must have formal approval from their school’s Board of Trustees and approval of the Modesto Junior College President prior to enrollment.

Home-study 7th-8th grade students, who are at least 14 years old by the start of the semester for which they are applying, must include with their admission packet a certification letter (Private School Affidavit) from their County Schools’ Office or the State of California. Home-study 7th-8th grade students who are at least 14 years old must also demonstrate an English 101 ability level by completing the MJC Assessment.

7th-8th grade students are subject to all college regulations regarding attendance, conduct, scholarship and fee payment. Courses attempted and units earned will be recorded on the student’s permanent record and may be used toward meeting graduation, transfer, or certification requirements at Modesto Junior College.

In order to be approved for a second or more semester as a concurrently enrolled high school student, the junior high school student who is a continuing MJC student must be in good academic standing at MJC. Good academic standing is defined as having a cumulative 2.0 or higher MJC grade point average.

NOTE: It is expected that all 7th-8th grade students enrolling in college courses have the maturity to function effectively on a college campus. No special arrangements for additional supervision of underage students are available. College courses are designed for adult students. In a very small number of disciplines, course content may be unusually frank in order to deal with scholarly discussion of behavioral, artistic, human or other issues. Unlike K-12 schools, colleges do not contact parents in advance to inform them of these issues. Parents are hereby notified that it is their responsibility to assure that their child is able to handle the college environment, as well as the content of the courses in which the student enrolls. Parents may wish to investigate the curriculum prior to enrolling their student if they have any questions or concerns.

Advanced admission is granted for academically superior 9th through 12th grade students who are at least 14 years old by the start of the semester for which they are applying, and the high school principal has certified that the student is prepared to undertake Associate degree credit courses that are numbered 50 or higher. In order to be eligible to enroll in college level courses (credit courses numbered 50 or higher) 9th-12th grade students must have met all the established special conditions set forth in the Yosemite Community College District Board Policy & Procedures.

Admission of High School Students

Advanced admission is granted for academically superior 9th through 12th grade students who are at least 14 years old by the start of the semester for which they are applying, and the high school principal has certified that the student is prepared to undertake Associate degree credit courses that are numbered 50 or higher. In order to be eligible to enroll in college level courses (credit courses numbered 50 or higher) 9th-12th grade students must have met all the established special conditions set forth in the Yosemite Community College District Board Policy & Procedures.

The school district principal or designee must determine that the petitioner is capable of benefitting from advanced scholastic or vocational (college level) work.

High school students may be determined to be eligible for advanced admissions in MJC college-level courses (MJC credit courses numbered 50 or higher) and if the school district of residence does not provide courses of advanced scholastic or vocational study to benefit the petitioner.

High School students must submit a Modesto Junior College Application for Admission, the completed Petition for Advanced Admission form, and a Health Consent form. All students must satisfy class prerequisites, if necessary. High school students who plan to enroll only in Physical Education or Guidance classes are exempt from the scholastic requirement. Upon high school graduation, each graduating senior who enrolled in MJC classes as a high school student must complete the Returning Student Update Form so that high school graduation information can be updated. Failure to do so will delay registration for classes.

High school students admitted in this category are subject to all of the college regulations including attendance, conduct, scholarship and fee payment. Courses attempted and units earned will be recorded on the student’s permanent record and will be used toward meeting graduation, transfer, or certification requirements at Modesto Junior College. High School students who wish to enroll in more than 11 units must have formal approval from their school’s Board of Trustees and approval of the Modesto Junior College President prior to enrollment.

In the event that a high school student wishes to receive high school credit for a course taken at MJC, a student can request that transcripts be sent to the high school. Students may request transcripts in the Records Office, Morris Memorial, Room 105, during final exam week or later. Each high school will make the determination of whether or not college credits can be used at the high school.

Home-study students must include with their Admissions packet a certification letter (Private School Affidavit) from their County Schools’ Office or the State of California.

In order to be approved for a second or more semester as a concurrently enrolled high school student, the high school student who is a continuing MJC student must be in good academic standing at MJC. Good academic standing is defined as having a cumulative 2.0 or higher MJC grade point average.

The number of W’s in relationship to attempted units will also be taken into consideration.

NOTE: It is expected that all high school students enrolling in college courses have the maturity to function effectively on a college campus. No special arrangements for additional supervision of underage students are available. College courses are designed for adult students. In a very small number of disciplines, course content may be unusually frank in order to deal with scholarly discussion of behavioral, artistic, human or other issues. Unlike K-12 schools, colleges do not contact parents in advance to inform them of these issues. Parents are hereby notified that it is their responsibility to assure that their child is able to handle the college environment, as well as the content of the courses in which the student enrolls. Parents may wish to investigate the curriculum prior to enrolling their student if they have any questions or concerns.
Admission of Students with Bachelor’s Degrees or Higher

Students with Bachelor’s Degrees or higher will be admitted to Modesto Junior College upon submission of a completed Application for Admission or Returning Student Update form. Students with Bachelor’s Degrees or higher will enroll after all other priority registration appointments have been honored, consistent with state community college guidelines.

Admission of International Students

International Student Program, Counseling Services
EAST CAMPUS: Morris Building, 103
Phone: (209) 575-6012
FAX: (209) 575-6720
Email: sturbainb@mjc.edu
Hours: M-Th 8:00 AM – 5:00 PM F 8:00 AM – 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED

MAILING ADDRESS:
Coordinator of International Student Program
435 College Avenue
Modesto, CA 95350-5800

The International Student Program provides specialized services, activities, and support to all foreign students attending MJC. Admissions, academic and personal counseling, orientation, immigration advising, cultural programming, International Club advising, a monthly publication, and more are all part of this program. A special Orientation program is arranged for new students upon arrival to MJC. Students are encouraged to visit the International Counselor.

Modesto Junior College welcomes qualified international (non-immigrant) students to its academic, vocational and technical programs. The administration believes that the presence of international students enriches the academic environment for all of its students while providing a quality education for students from all parts of the world. The following is required for admission of all international, non-immigrant, applicants:

- International Student Application
- Certification of Finances
- Proof of English competency comparable to a 450 (133 computer based, 46-46 Internet based) TOEFL
- High School Graduation (official transcripts from all secondary and post-secondary institutions must be provided with English translations)
- Autobiographical essay

International students are required to pay non-resident tuition. For more information and/or application forms, contact the coordinator of the program.

Admission into Special Academic Programs

Programs such as Nursing, Respiratory Care, Medical Assisting, Dental Assisting, the Law Enforcement Academy and Fire Academy require special program admission in addition to regular admission to the college. This can be accomplished by submitting a completed Admissions Application to the Admissions Office, and by contacting the Allied Health Division (209) 575-6362 for information about admission into Nursing, Respiratory Care, Dental Assisting, and Medical Assisting. For information about the Law Enforcement Academy, students should phone the Criminal Justice Training Center (209) 525-4701; for the Fire Science Academy, phone (209) 549-7028.

Readmission After Dismissal

A student who has been academically dismissed (see Academic Probation and Dismissal) may petition for readmission by completing a Petition for Readmission any time after receiving notice of dismissal. Forms are available in the Counseling Center, Morris Memorial, Room 103. Petitions will be reviewed by the Dean, Student Services, and counselors. The student may be readmitted if there is strong evidence showing promise of success.

The Dean, Student Services, upon granting readmission to a dismissed student, may impose certain restrictions, such as unit load, periodic grade reviews, etc., which are felt to be in the best interests of the student. A readmitted student is subject to immediate dismissal should he/she fail, at any time, to meet the conditions stipulated by the Dean, Student Services. If the petition is denied, the student may apply for readmission after one year has passed since dismissal.

Inter-District Attendance

The Yosemite Community College District maintains a free exchange of students with all community college districts in the State of California. No inter-district permit is necessary to attend Modesto Junior College from any other community college district in California.

Priority Registration Appointments

Continuing students register on a priority basis in the following order:

1. Eligible students with disabilities and eligible EOPS students,
2. Students with 99 to 0 units in descending order, and
3. Students with 99.5 units or more.
4. New and returning students receive a first-come, first-served registration appointment based on the date their complete admission application or Returning Student Update form is received.
5. Students who have Bachelor Degrees or higher register after all priority registration appointments have been honored.

Registration appointment cards for continuing students are no longer mailed. They are available on the web as of the following dates.
Admission to MJC

Summer Session April 17
Fall Semester July 17
Spring Semester Mid November

Staff at Modesto Junior College are currently reviewing the Priority Registration System. If changes are made, information will be posted on our website, www.mjc.edu.

Course Audit (formerly Community Participant Process)

**East Campus:** Admissions Office, East Campus Student Center
Phone: (209) 575-6013
Registration Hotline: (209) 575-6853
FAX: (209) 575-6859

Hours:
- M-Th: 8:00 AM - 5:00 PM
- F: 8:00 AM - 4:30 PM
- Summer Hours: M-Th: 7:30 AM - 5:30 PM
- F: CLOSED

**West Campus:** Yosemite Hall
Phone: (209) 575-7727

Hours:
- M-F: 8:00 AM - 4:30 PM
- Summer Hours: M-Th: 7:30 AM - 5:30 PM
- F: CLOSED

Persons who have met the limit of repetition of credit courses as stated in the catalog may audit the course with approval of the instructor. Auditors receive no credit for class work, no grade, and no record is kept of their performance in class. Enrollment is allowed after the first day of instruction. An Audit Enrollment Form can be obtained in the Admissions Office after staff verify that the repeat limit has been reached. This form must be signed by the instructor and the student and turned in to the Admissions Office along with a payment of $15.00 per unit paid to the Business Office. Students enrolled in ten (10) or more units at the time audit enrollment occurs will not be assessed the fee for up to three (3) units.

Wait Lists

When available class seats are filled, a class is closed to further enrollment. However, students may (at the time of registration) place their name on a wait list. Students may be added to only one wait list in a particular subject and only if they are not already enrolled in the same class (i.e. one English 101 class, one Math 90 class, etc.) Being on a wait list does not mean that the student is enrolled in the class. It means that the student is on a waiting list should additional seats become available once the class has begun.

If seats become available in classes during registration, divisions will contact students. Therefore, it is important for all students to keep email addresses, home mailing addresses, and phone numbers current. Each time a student registers, a screen will come up that shows the address information on file with the college. Students should review and correct any errors as instructed on PiratesNet. When classes begin, the students who are still on the wait list should attend the first class session and talk with the instructor. If a seat is available in the class, the instructor will give the student an add card according to wait list order. Instructors will add only students who meet eligibility requirements for the class. To officially enroll in the class, the student must add the class using PiratesNet, T-REG or by bringing the add card to the Admissions Office on either campus.

Instructors will advise students regarding their chances of being added to the class and whether or not wait list students should return to subsequent class meetings.

Students who have placed themselves on an online class wait list should submit an Electronic Add-Card on the first day of class. If the instructor allows the student to add the class, they will email the student providing instructions as to how to add the class online. To ensure a priority wait list number, students must complete the electronic add-card procedure.

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**Important Information About Your Fees**

- Fees are due at the time of registration.
- For fee refunds on classes, the student must drop the class before published refund deadlines.
- Classes that have not been dropped by the deadline will be charged to the student.
- FAILURE to pay fees or drop unwanted classes will result in loss of services and blocks to future registration.

For more information, please refer to fee information on page 18.
Preparing for MJC

Counseling Services

FACULTY
Kim Bailey
Leticia Cavazos
Pamela Crittenden
Alida Garcia
Marcos Garcia
Eric Ivory
Hanna Louie
Pamela Loyd
Charles Madriaga
Theresa Maldonado-Ballance
Mary Silva
Barbara St.Urbain
Ronald Tingley

Dean Tsuruda
Charmeine Wesley-Hartman, PhD.
Linda Wong

SUPPORT STAFF
Kim Cromwell, Administrative Secretary
Elaine Thornton, Support Staff III
Delia Gonzalez, Support Staff II
Araceli Balleli, General Clerk

INSTRUCTIONAL PROGRAMS
Guidance
Study Skills

Planning for Your Goals with a Counselor

EAST CAMPUS: Counseling Center
Morris Memorial Building, Room 103
Phone: (209) 575-6080
FAX: (209) 575-6720

Hours: M-F 8:00 AM - 5:00 PM
Evening Hours: Please refer to counseling website at www.mjc.edu or call the counseling center for more information.
Summer Hours: M-Th 7:00 AM – 5:30 PM F CLOSED

Some students have already decided on their educational or career goals before entering MJC. Others are exploring different educational or career paths, and may not enter MJC with an educational goal or major.

We encourage students to use our counseling, assessment, and career services to help set and reach educational and career goals. We also encourage students to build relationships with faculty who teach in their areas of interest. These faculty advisors can provide students with the information, support and guidance to help them reach their goals. Counselors and advisors are not assigned to students.

Educational counseling is required for all new students who indicate on their admissions application that they:
1. Have an Associate degree and are pursuing another Degree, a Certificate, or transfer;
2. Plan to earn an Associate degree;
3. Plan to earn a Certificate;
4. Plan to transfer to a four-year university; or
5. Plan to learn job skills or prepare for career advancement.
6. Are undecided about their educational and career goals.

Educational counseling is available prior to each new student’s registration appointment either as part of the student’s orientation appointment or in the Student Center on a drop-in basis.

Students who are required to meet with a counselor prior to registration who choose not to be advised must complete a Matriculation Release Form, available in the Admissions Office or in the Student Information Center. Students who do not complete advising or who do not have an approved Release Form may forfeit their registration appointment.

Students who are exempt from educational counseling are welcome to attend a counseling session. All MJC students are welcome to make an appointment with a counselor.

Assessment Process

WEST CAMPUS: Yosemite
Phone: (209) 575-7728
Recording: (209) 575-6026
FAX: (209) 575-7776
Website: http://mjc.edu/assessment

Hours: M-F 8:00 AM - 4:30 PM
Summer Hours: M-Th 7:30 AM- 5:30 PM F CLOSED

Math and English/Reading assessments are required of ALL STUDENTS who are completing courses for a degree, certificate, transfer program, job skill improvement, career development, or who are undecided; as well as students who have completed at least 15 units, regardless of their goal.

To be admitted to a test session, a completely processed admissions application must be on file in the Admissions Office. Picture ID will be required for test admittance. Seating is on a first-come, first-served basis.
basis. Tests begin promptly, and students may not enter after a test has begun. Some tests are provided on the computer. For computer testing, students will be admitted to the Testing Center as computers become available. Students with disabilities who need special testing accommodations should notify Testing Center staff of their needs at least 10 days before they plan to test.

Students who may be exempt from testing are welcome to take the assessment tests and to participate in the assessment process.

There is no pass or fail, and these tests do not determine admission to the college. The results are used to assist students in selecting the appropriate level of course work. Placement in courses is not based solely on test scores. Counselors may use test scores, high school and/or previous college transcripts, and information gained during the counseling appointment to determine course recommendations. Students are encouraged to discuss results with a counselor prior to registration.

Students who are required to take assessment tests prior to registration, who choose not to test, must complete a Matriculation Release Form, available in the Admissions Office or in the Welcome Center. Students who do not complete required assessment testing or who do not complete a Matriculation Release Form may forfeit their registration priority appointment.

Once a student receives a placement recommendation by the college’s assessment process AND the student enrolls in the recommended course, the student may not re-test into a higher level course.

NOTE: Most math, English composition, and science courses require assessment or prerequisite course completion.

EXEMPTIONS
Students may be exempt from testing or have satisfied the testing requirement if they:

- Have an Associate or higher degree; or
- Have taken other California community college assessment tests and have submitted test results and other information (college catalog description with course description) to MJC Records Office at least 6 weeks prior to registration appointment; or
- Have taken other college math, chemistry, English composition or ESL classes and have submitted official transcripts to the Records Office, at least 6 weeks prior to registration appointment; or
- Are enrolling only in activity classes, apprenticeship classes, employer-required classes, personal growth/enrichment classes, classes to maintain a certificate or license, or high school equivalency or other non-credit classes only, and have completed fewer than 15 units.

Students may not retest if they have:

- Completed an English, reading or math class at MJC.
- Dropped an English, reading or math class after two weeks.

Counselors will use test scores and other information to ensure that students take appropriate MJC courses. ALL students should have high school and/or previous college transcripts on file in the MJC Records Office, and ALL students should discuss course selections with a counselor or advisor before registration. MJC’s assessment tests provide current skill level information that will be used in combination with transcripts and other assessment methods to plan a successful course of study.

MATHEMATICS ASSESSMENT
Students can choose from four exams:

- Level 1 - Basic Math Competency
- Level 2 - Elementary Algebra Competency
- Level 3 - Intermediate Algebra Competency
- Level 4 - Precalculus Competency

In order to assist in advising, retesting on lower exams may be required of students if scores on the higher exam are significantly low. To eliminate this need, students should be sure of their appropriate math level when taking the tests.

ENGLISH AND READING ASSESSMENT
There are two sections that make up the English/Reading exam:

1) Reading Comprehension
2) Sentence Skills

Students who are taking the test for English advisory purposes must take both sections. The Reading section alone will only be given to students who have previously taken the English assessment exam, or who have completed an English course, but still need a reading recommendation. Programs that have admission requirements, such as nursing, are partly satisfied by the reading assessment. Check with an advisor for other program needs.

ENGLISH-AS-A-SECOND-LANGUAGE (ESL) ASSESSMENT
Students who plan to enroll in "credit" ESL classes must take the MJC ESL assessment test prior to registration. The assessment consists of:

- a 45-minute multiple choice test;
- general information questionnaire; and
- ESL advising

Students who will be enrolling in non-credit ESL courses (ESL 901, 902, 903, 904, 905) are not required to take the ESL assessment test. Students who would like additional information about Testing should visit the Testing Center.

Make sure to complete preregistration activities!

Failure to complete required preregistration activities (orientation, assessment, advising) can delay a student’s registration appointment to a later date and time!
All new and returning students who do not have an Associate degree or higher and who have not previously attended an MJC College Orientation or completed an MJC Guidance class are required to attend orientation prior to their registration appointment. Orientation familiarizes each new MJC student with campus policies, procedures, and student rights and responsibilities. Students who are exempt from Orientation are also welcome to attend an Orientation session. Orientation schedules are printed each semester in the MJC Schedule of Classes.

Arrangements can be made for students with disabilities and limited English-speaking students who require accommodations. To make accommodations, students should contact the Welcome Center.

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All students who have earned 15 or more units should develop an educational plan with a counselor during the semester following enrollment in their 15th unit. An educational plan is a guide that lists the courses and student support services that are either required or recommended for the successful completion of a student’s goal.

All students who indicate on their admissions application that they are undecided will be provided with assistance in choosing a realistic goal. Undecided students are encouraged to choose a goal upon earning 15 units.

To develop an educational plan, MJC students should make an appointment with a counselor.
Fees & Expenses

Student Expenses

Business Services

EAST CAMPUS: Student Center
Regular hours: M-Th 8:00 a.m. - 5:00 p.m.  
F  8:00 a.m. - 12:00 p.m.
Summer Hours: M-Th 7:30 a.m. - 5:30 p.m.

WEST CAMPUS: South Hall 154F
Regular hours: M-Th 8:00 a.m. - 11:30 a.m.  
12:00 p.m. - 4:00 p.m.  
F  8:00 a.m. - 12:00 p.m.
Summer hours: (May 2 - August 22) CLOSED

Enrollment Fee: California residents must pay an enrollment fee of $26 per unit per semester (subject to change by the California State Legislature). Enrollment fees may be waived for students who qualify for the Board of Governors Grant Fee Waiver Program and for those who enroll in Apprenticeship courses only. Dependents of service-connected disabled or service-connected deceased veterans may be eligible for a waiver of fees. Please contact the campus Veteran’s Office in Morris Memorial Building room 104 for assistance. For fee waiver information students should contact the Financial Aid Office in Yosemite Hall.

Non-Resident Tuition: A U.S. citizen who is not a legal resident of California and all others who are classified as non-residents are required to pay a non-resident tuition fee of $160 per unit per semester. The international student tuition fee is $160 per unit per semester. The tuition fee is in addition to the Enrollment Fee and all other required fees.

Health Fee: A $13* Health Fee must be paid each semester (Spring and Fall) by students who enroll in a credit course that is longer than 16 hours, held on campus or off-campus within the district, or those enrolled in non-credit courses held on campus, or those enrolled in on campus contract education courses. The Health Fee may be waived for students who are indentured apprentices enrolled in Apprenticeship courses only, or for those who depend exclusively on prayer for healing, with approval of the Vice President, Student Services.

* Per Education Code Section 76355, fee subject to change by $1 based on the Implicit Price Index for State and Local Government Agencies.

Student Center Fee: Students voted in Spring 2000 to assess a Student Center fee of $1.00 per unit to a maximum of $10.00 per academic year, to establish an annual building/operating fund for the West Campus Student Center.

Student Representation Fee: A $1 fee established by two-thirds vote of the student body. Money collected will be used by ASMJC to represent student concerns at local, state, and federal government levels. Students may refuse to pay the fee for religious, political, financial, or moral reasons. A refusal to pay the fee must be submitted in writing to the Business Services Office.

Student Activity Fee: A $5 optional fee that transforms the Student ID card into a valuable discount card for services on campus and off-campus merchants.

Parking Fee: Student parking permits are available for $20 a semester or $1 per day. (Summer term is $7.50). Motorcycle fee is $7.50 per semester. The parking fee is not required for disabled students with disabled DMV placard. Parking permits must be picked up in person. Picture ID required.

Debts To The College: Any individual who has incurred, but not paid, a debt to the college may be denied grades, transcripts, degrees, some services, and registration privileges.

Materials Fees: Serves as payment for required instructional and other materials which are of continuing value to the student outside of the classroom setting and which the student must procure or possess as a condition of registration, enrollment, or entry into a class; or any material which is necessary to achieve the required objectives of a course.

Other Expenses: Textbooks, stationery and supplies will amount to approximately $200 to $600 per semester.

Transcript Verification - The first two transcripts are provided free. A fee of $5 per transcript is charged after the first two, payable at the time of the request. A $10 fee is charged for 24-hour transcript service, and a $20 fee is charged for on-the-spot transcript service.

Enrollment Verification - The first two verifications are provided free. A fee of $3 per verification is charged after the first two, payable at the time of the request. A $10 fee is charged for next day service and a $20 dollar fee is charged for same-day service. No charge is made for loan deferment or financial aid GPA verifications.

Course Audit Fee: Required of students who have met the repetitions limit for credit courses. Pay this fee at the MJC Business Services Offices. Students enrolled in 10 or more units at the time audit enrollment occurs will not be assessed the fee for up to 3 units. See Course Audit procedure.

Other Authorized Fees: Fines for overdue library books or other equipment, and parking fines are among special charges authorized by the Board of Trustees.
Field Trip Fees
Appropriate fees will be charged for those field trips scheduled to destinations outside California and for some long distance field trips outside the Yosemite Community College District.

Refund Policy

Class(es) must be dropped at the Admissions Office, online at www.mjc.edu, or by touchtone phone at (209) 549-7000 on or before published deadline dates prior to requesting a refund.

The Parking Fee and Student Activities Fee are refundable only if class is dropped by the last business day before class begins, and if the parking permit and Student Activities sticker are returned prior to the first day of the term. Parking permits paid for and not picked up will only be refunded during the refund-filing period.

A. Drop Deadlines to be eligible for a refund - Class(es) must be dropped during the first two weeks of the term, except for short-term classes. Short-term classes must be dropped by the 10% point of the length of a class with the exception of those classes that have either five or fewer meeting days or meet 20 or fewer hours. In these cases, the last refund date is defined as the day before the first class meeting. If the last day in any of these periods falls on a weekend or holiday, the final drop date is the preceding college business day.

B. Refund Request Form - A Refund Request Form (available in the Business Services Office, online at www.mjc.edu, the Admissions Office, and the current schedule of classes.) MUST BE FILED in the MJC Business Services Office by the end of the fourth week of the term, except for short term classes. The refund request must be filed within two weeks of the drop date.

In accordance with the California Code of Regulations, Section 58508, refunds with an enrollment credit of at least $10.00 will be assessed a $10.00 administrative processing fee.

C. Classes Canceled by the College - Refunds are made for classes canceled by the college, but refunds ARE NOT AUTOMATIC. The student must submit a completed Refund Request Form to the Business Office.

Checks for approved refunds are mailed approximately six (6) weeks after the term begins or four (4) weeks from the filing date, whichever is later. If fees or tuition were paid by check, the refund is not made until the check has cleared the bank.

D. Outstanding Credit - Credit for which a refund has not been filed as specified in (B) above will not be refunded. Continuing students with an outstanding credit can carry this credit from the summer and/or fall semesters into the succeeding fall and/or spring semesters where such credit is then applied against fees and charges in those respective terms. ANY CREDITS REMAINING AT THE END OF THE SPRING SEMESTER, HOWEVER, ARE FORFEITED; they are not carried into the next academic year.

Denial of Services and Debts Owed to the College

Students who have debts to the college or “holds” for administrative reasons on their student records may find that services are withheld until the debt is paid or the hold is removed.

Services that will be withheld because of debts to the college or holds include; counseling/advising services, registration, release of diplomas and certificates, release of transcripts, enrollment verifications, and release of grades.

Debts occur when a student fails to repay money borrowed from the college, violates a student financial aid contract, fails to pay tuition and/or registration fees, library fines, bookstore merchandise, fails to reimburse the college for an “insufficient funds” check or for a disapproved credit card transaction, fails to return or account for athletic uniforms and equipment, or fails to pay scheduled fees for other services provided by the college.

Modesto Junior College reserves the right to withhold all further services until the debt is paid. Grades and transcripts will be withheld until all financial obligations are cleared.

Community Education Refunds

Community Education and Fee-Funded Classes: A full (100 percent) refund will be given for classes, trips, tours and other activities which are full at the time registration is received or those that the college finds necessary to cancel. Refund requests for classes/seminars must be received by the Community Education Office at least seven (7) working days prior to the first meeting. For trips/tours, refund advance notice must be given within the following guidelines:

- One-day excursion.................................7 days
- Pre-purchased tickets included...............30 days
- Overnight accommodations included ..........45 days

No refunds are issued after a class, seminar, trip, or tour has started. All student-requested refunds are subject to a $20 drop fee.

NOTE: Fees are subject to change through State Legislation and Governing Board implementation as judged to be in the best interest of the California Community Colleges and the students at Modesto Junior College.

NOTICE TO STUDENTS

Enrollment verifications are not processed during registration periods. Verification requests submitted during registration periods will be available the third week of the term.
Academic Regulations

Student Classifications

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuing</td>
<td>Has enrolled in one or more classes within the past year. Continuing students are automatically assigned registration appointments each semester. For catalog rights, continuous enrollment is defined as earning college credit for enrollment in at least one term (Summer, Fall or Spring) of the school year.</td>
</tr>
<tr>
<td>Returning/Former</td>
<td>Has not enrolled in an MJC class within the past year.</td>
</tr>
<tr>
<td>New</td>
<td>Has never enrolled in a class at MJC.</td>
</tr>
<tr>
<td>Full-time</td>
<td>Registered in 12 or more units.</td>
</tr>
<tr>
<td>Part-time</td>
<td>Registered in fewer than 12 units.</td>
</tr>
<tr>
<td>Freshman</td>
<td>Has completed fewer than 30 units.</td>
</tr>
<tr>
<td>Sophomore</td>
<td>Has completed 30 units or more.</td>
</tr>
</tbody>
</table>

Recommended Study Loads / Excessive Units

A typical student load is 12 to 16 units of work per semester. A heavier or lighter study load may be recommended by a student's adviser or counselor. In no case will a student be enrolled for more than 18 (12 units for summer) units of work without approval of the Petitions Committee. Students with less than a C average may not carry more than 18 units of work without special permission. Students on probation or dismissed status may be limited to the work load judged most suitable for them. Petition forms can be obtained in Morris Memorial Building Room 107 or 103.

Open Class Policy

Unless specifically exempted from statute, every course, section, or class, the average daily attendance of which is to be reported for state aid, is open to enrollment and participation by any person who has met the eligibility requirements for admission to the college and who meets such prerequisites as may be established.

Exception to this policy will be made where health, safety, legal requirements, or the facility is a limiting factor in the conduct of the course. Students denied enrollment by this policy may appeal to the Vice President for Student Services.

Attendance Policy

All students enrolled at Modesto Junior College are expected to be punctual and attend classes regularly. Instructors are encouraged to announce to their students their policies regarding excessive absences or tardiness at the beginning of the semester. When an instructor determines that a student’s absences are excessive, the instructor may drop the student from the class.

It is the student’s responsibility to discuss anticipated and/or extensive absences with the instructor. No absence relieves the student of the responsibility of completing all work assigned.

Any student who fails to attend class regularly may be dropped; however, it is the responsibility of the student to complete the course or to officially withdraw from a class.

Tardiness may be treated as an absence.

Withdrawing From Class

Students are responsible for officially dropping classes. Even if an instructor promises to drop a student, the student is responsible for officially dropping the class.

Students who do not officially drop a class may receive an "F" in the class. Students may drop classes during published times...
(see current Class Schedule) using PiratesNet or Telephone Registration or by submitting a Drop Form to the Admissions Office.

- If a student drops a full-term course within the first four weeks of the semester, no notation will be recorded on the student’s permanent record.
- If a student drops a full-term class from the end of the fourth week through the 12th week (or by 75% of the class, whichever is less) a grade of "W" will be recorded.
- A student cannot withdraw from class after the published drop deadline.
- For short-term class deadlines, contact the Admissions Office.

A student is responsible to pay all fees according to written regulations. A student who enrolls in a course and fails to pay fees is responsible for all outstanding debts to the college. Future services and registration will be denied until full payment has been made.

Once the deadline to withdraw from class(es) has passed (75% of a class’ duration), neither a student nor an instructor may request a withdrawal. However, a student may petition to withdraw after the deadline based upon extenuating circumstances, such as illness or hospitalization. Petitions are available in Morris Memorial Room 107.

**Military Withdrawal**

A student called for active duty may receive a military withdrawal at any time during the semester. Military withdrawals will not be factored into progress probation. To drop classes using a military withdrawal option, student must submit a copy of military activation papers along with a drop form for each class to the Admissions Office.

**Course Numbers at MJC**

| 1 - 49 | Non-degree courses. (Students who completed courses numbered 1 - 49 prior to Fall 1989 may use these courses towards a degree.) |
| 50 - 99 | Courses certified for Associate degree credit. |
| 100 - 199 | Courses certified as appropriate for Baccalaureate or Associate degree credit.* |
| 200 - 299 | Vocational courses certified as appropriate for Baccalaureate or Associate degree credit.* |
| 300 - 399 | Associate degree credit vocational courses. |
| 500 - 599 | Contract Instruction. (Non-degree applicable) |
| 700 - 799 | Fee-Funded courses. (Non-degree applicable) |
| 800 - 899 | Non-credit courses. (Non-degree applicable) |
| 900 - 999 | Basic education. (Non-degree applicable) |

* All certified courses (courses numbered 100-299) are accepted by the California State University System. A list of courses transferable to the University of California is available in the Counseling or Career Transfer Center, or at www.assist.org.

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**Remedial Course Limit**

Students may not receive credit for more than 30 units of remedial coursework (courses numbered 1-49). However, this limit shall not apply to the following students:

1. Students enrolled in one or more courses of English-as-a-Second-Language.
2. Students identified by a college in the district as having a learning disability.

Students may be granted a waiver to the limitation upon petition to a college in the district. Waivers will be granted only when the student shows significant and measurable progress toward the development of skills necessary for college-level courses. Such waivers will be given only for a specified period of time or for a specified number of units.

**Catalog Information**

The courses listed in this catalog constitute the curriculum of the college. The college reserves the right to add, delete, or change any existing course throughout the year. The listing of a course in the catalog does not constitute a commitment to offer that course during the year.

The notation of either fall or spring denotes that the course is generally offered only during that semester: however, circumstances may require changes during the year.

**Catalog Rights**

A student remaining in continuous enrollment will retain catalog rights for graduation under the year of initial enrollment. Any academic record symbol entered on a transcript (A through F, CR, NC, I, W) shall constitute a record of continuous enrollment.

Continuous enrollment is defined as earning college credit for enrollment in at least one term (Summer, Fall or Spring) of the academic year.

**2+2 Program**

**MJC Early College/ Tech Prep Director**

WEST CAMPUS: Sierra Hall 254  
Phone: (209) 575-7885

2+2 Articulation is a planned process for linking two or more educational systems through formal articulation agreements. Modesto Junior College (MJC) has established course agreements with many of our area high schools and Regional Occupational Programs (ROP). Students who participate in 2+2 are able to transition from their secondary institution to MJC without experiencing a delay or duplication of learning once they have completed specified requirements of the agreement.

**BENEFITS OF PARTICIPATING IN THE 2+2 PROGRAM**

1. Receive college credit for course work completed in high school. A student must complete a fall or spring semester at MJC after high school graduation before the articulated college credit is placed on his/her transcript.
Receive priority registration. 2+2 students will register after continuing students, but prior to new and returning students.

Receive advanced placement at MJC (skip introductory college courses), which can save time and money.

Apply the articulated course work toward a certificate, AA/AS degree or transfer.

Questions concerning 2+2 Articulation agreements should be directed to the Early College/Tech Prep Director.

**Acceptance of Credit from Other Institutions**

Lower division credit will be accepted from institutions listed as accredited by accrediting bodies that MJC recognizes, or if the institution is listed as a candidate for accreditation in the publication "Accredited Institutions of Higher Education" (provided the institution giving the courses accepts them towards its own degree.)

Veterans and reservists who have completed basic training will receive three units of Health Education credit and two units of Physical Education credit upon presentation of their separation papers. Credit for military schools will be granted if recommended in "Guide to the Evaluation of Educational Experiences in the Armed Services." Credit for USAFI courses will be granted if appropriate (18 units maximum).

Modesto Junior College does not evaluate international transcripts. Lower division courses will be accepted if recommended by the Credentials Evaluation Service, Inc., P.O. Box 66940, Los Angeles, CA 90066, or the Foreign Educational Document Services, P.O. Box 4091, Stockton, CA 95201. The request forms for these companies can be picked up in the Evaluations Office, Morris Memorial Building, 205. The cost of this evaluation is the responsibility of the student.

In accordance with District policy, official college transcripts received by MJC will be evaluated for college credit. Transcripts received become the property of MJC.

**Credit by Examination**

A student may petition for "credit by examination" in appropriate courses as determined by the Academic Division or area, provided the student has evidence of training and/or experience in that subject area.

To challenge a course for credit, a student must be in good standing as evidenced by:

1. registration in other Modesto Junior College credit course(s) at the time the course is challenged.
2. a cumulative grade point average of 2.0 (C) or better for any previous college units earned.
3. to be awarded credit, the student must have a grade notation in at least one other MJC credit course in the semester in which credit is awarded. [Notation includes grade, incomplete (I) or withdrawal (W)]

CAUTION: Please note that four-year college/university policies on awarding credit for courses taken on a credit by examination basis vary from campus to campus.

Credit by examination will not be granted for a course:

1. if the units granted would cause the student to have completed more than 30 units of credit by examination
2. in which a student is currently enrolled
3. that is below the academic level of a course already completed
4. in which a student has received a grade, i.e. a "W" will be regarded as a grade.
5. in which the student has received A.P. credit.

To begin the credit by examination process, a student must:

1. confer with the Academic Dean of the course subject area. Credit by Examination is not available for all courses. Check with the Dean to determine if the course you wish to challenge is available for credit by examination. Student must be able to provide evidence of training and/or experience in the subject area. The Dean will give the student a Petition for Credit by Examination to complete. The form is given back to the Dean for action.
2. the Academic Dean sends the form to the Records Office, Morris Memorial Building, Room 107. A student who wishes to file for the credit-no credit option must submit this request at the time the credit for examination petition is filed. After the Petitions Committee acts on the Petition for Credit by Examination, the student will be notified of the action and instructed to pay the fee.
3. student pays the current per unit enrollment fee for each course at the MJC Business Office and brings receipt to the Records Office.
4. student and Academic Dean, or instructor designated by the Dean, arrange a time and location for the examination.

Units earned by examination do not count towards the residence requirement for graduation nor do they count toward full-time status. Petitions must be filed no later than seven weeks before the end of the semester. A current per-unit enrollment fee will be charged for each course challenged. (A waiver of fee may be granted based on Financial Aid Office criteria.) See page 18 for current fee information.

* Fee subject to change pending action by the CA State Legislature
### Advanced Placement

Modesto Junior College recognizes the Advanced Placement (AP) Program of the College Entrance Examination Board. Advanced Placement credit will be granted to those students earning a score of 3, 4, or 5 according to the following policy:

#### AP Policy

1. Students must be enrolled at MJC in order to apply for unit credit for AP exams.
2. Students will be granted unit credit for AP exam scores of three (3), four (4), or five (5) toward the fulfillment of requirements reflected in the chart.
3. Unit credit earned through AP exams will be listed on the transcript based on the AP exam passed.
4. Unit credit earned through AP exams will be based on the comparable course in the MJC catalog. A list of the comparable course for each AP exam will be available from the MJC Articulation Officer (MM 205 D) upon request.
5. All CSU campuses will accept the minimum units shown toward the fulfillment of the designated general education breadth area if the exam is included in a full or subject area certification.
6. Units earned by AP exams will be used to meet IGETC (Intersegmental General Education Transfer Curriculum), with the exception of critical thinking, Area 1B and Speech Communications, Area 1C.
7. Official score reports from the College Board AP Program must be sent to Modesto Junior College, Attention: Vice President, Student Services. Official score reports can be requested at (888) 225-5427 (toll-free).

#### AP Examinations

<table>
<thead>
<tr>
<th>Language &amp; Composition</th>
<th>CSU-GE Area(s)</th>
<th>IGETC Area(s)</th>
<th>MJC-GE Area(s)</th>
<th>MJC Activities (V) Competencies Met or Exceeded, &amp; Unit Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>A2 (3)</td>
<td>1A (3)</td>
<td>D1(3)</td>
<td>MUC “Written Expression” Competency Met or Exceeded</td>
</tr>
<tr>
<td>Literature &amp; Composition</td>
<td>A2(3) + C2(3)</td>
<td>1A (3)</td>
<td>D1(3)</td>
<td></td>
</tr>
<tr>
<td>FOREIGN LANGUAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>C2 (6)</td>
<td>3B (6)</td>
<td>C (8)</td>
<td></td>
</tr>
<tr>
<td>French Literature</td>
<td>C2 (6)</td>
<td>3B (6)</td>
<td>C (8)</td>
<td></td>
</tr>
<tr>
<td>German Language</td>
<td>C2 (6)</td>
<td>3B (6)</td>
<td>C (8)</td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>C2 (6)</td>
<td>3B (6)</td>
<td>C (8)</td>
<td></td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>C2 (6)</td>
<td>3B (6)</td>
<td>C (8)</td>
<td></td>
</tr>
<tr>
<td>ARTS &amp; HUMANITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art History</td>
<td>C1 (3)</td>
<td>3A (3)</td>
<td>C (3)</td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td>C1 (3)</td>
<td>3A (3)</td>
<td>C (3)</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 2D Design</td>
<td></td>
<td></td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>Studio Art: 3D Design</td>
<td></td>
<td></td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>Studio Art: Drawing</td>
<td></td>
<td></td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>MATH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>B4 (3)</td>
<td>2 (3)</td>
<td>D2 (4)</td>
<td>MUC “Math” Competency Met or Exceeded</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>B4 (3)</td>
<td>2 (3)</td>
<td>D2 (4)</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>B4 (3)</td>
<td>2 (3)</td>
<td>D2 (4)</td>
<td></td>
</tr>
<tr>
<td>BIOLOGY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>B2 (3)</td>
<td>5B (3)</td>
<td>A (3)</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>B1 (6)</td>
<td>5A (6)</td>
<td>A (6)</td>
<td></td>
</tr>
<tr>
<td>Physics B</td>
<td>B1 (6)</td>
<td>5A (6)</td>
<td>A (6)</td>
<td></td>
</tr>
<tr>
<td>Physics C: Electricity &amp; Magnetism</td>
<td>B1 (3)</td>
<td>5A (3)</td>
<td>A (3)</td>
<td></td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>B1 (3)</td>
<td>5A (3)</td>
<td>A (3)</td>
<td></td>
</tr>
<tr>
<td>COMPUTER SCIENCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science AB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gov &amp; Politics (Comparative)</td>
<td>D8 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>Gov &amp; Politics (US)*</td>
<td>D8 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>US History*</td>
<td>D6 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>European History</td>
<td>D6 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>Economics: Macro</td>
<td>D2 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>D2 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>D9 (3)</td>
<td>4 (3)</td>
<td>B (3)</td>
<td></td>
</tr>
</tbody>
</table>

* Does not contain the California State and Local Government Requirement required for American Institution certification.

#### Four-Year University Caution

The applicability and quantity of unit credit for AP exams granted toward major or baccalaureate degree requirements continues to be determined by the individual CSU/UC/private campuses. Students should check with the transfer campus of their choice for its policies on awarding unit credit for AP exams.

#### AP Restrictions

1. Unit credit for AP exams will not be included in the fourteen (14) unit CR/NC graduation limitation established by MJC or the thirty (30) unit credit by examination limitation on challenge examinations.
2. Unit credit for AP exams will not be used to satisfy the college’s twelve-unit (12) residency requirement.
3. Unit credit for AP exams will not be used to satisfy financial aid, veterans, or EOPS eligibility criteria regarding enrollment status.
4. Unit credit for AP exams will not be used to satisfy laboratory science requirements.
5. Unit credit for AP exams will not be used in lieu of MJC assessment tests to satisfy prerequisites.
Unit of Credit

Units awarded for a course depend on the number of lecture, lab, and lecture/lab hours in the course. Typically, 17.5 hours of lecture with 35 additional hours of outside work, or 52.5 hours of lab produce one unit of credit. A student’s weekly workload for a full-semester course will be roughly three times the number of units of credit to be earned. So a typical 3-unit lecture course requires nine hours per week: 3 hours of lecture and 6 hours of outside work.

Grading System

Grades are assigned by instructors based on classwork and tests. Grades are assigned as follows:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DEFINITION</th>
<th>GRADE POINTS PER UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Failing, less than satisfactory</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit, at least satisfactory: A,B,C</td>
<td>units not counted in GPA</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit, less than satisfactory, or failing D,F</td>
<td>units not counted in GPA</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>units not counted in GPA</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td>units not counted in GPA</td>
</tr>
</tbody>
</table>

Examinations

Examinations or evaluations will be conducted as indicated in the course outline. A final examination or evaluation will be held during the scheduled final examination period at the end of the semester unless otherwise authorized by the President or designee.

Incomplete Grades

An Incomplete (I) grade will be given only in cases in which course work could not be completed because of illness or for a cause judged unavoidable by the instructor. Failure to complete regular course work by the end of the semester will not be reason for giving an Incomplete (I) grade. Faculty will issue an incomplete and the in-lieu grade that will be recorded if the student does not make up the work in the allotted time.

Faculty will determine the amount of time that a student may have to make up the work, but in no event, shall it exceed one year.

Instructors will submit to the Records Office a written record of the conditions for removal of the "I" grade and the grade to be assigned when the work is not completed. A copy of this record will be mailed to the student.

When the student has completed the course work, the instructor will go to the Records Office and record the appropriate grade and sign the written record in the rollbook.

If the student has not completed the conditions for removal, the Incomplete grade (I) will be changed to the "grade in lieu of removal" assigned by the instructor on the expiration date for the 'I' grade.

CR/NC (Credit/No-Credit)

A student may enroll in most courses with the option of one of two grading systems: (1) letter grade (GR) or (2) Credit/No Credit (CR/NC). The student must elect the CR/NC option no later than the first 30% point of the class. The deadline to file CR/NC for a full-term or short-term class is 30% of the class. If 30% falls on a weekend or holiday, the deadline to file CR/NC forms in the Admissions Office is the preceding business day. (Forms are available in the Admissions Office or online at www.mjc.edu.) Unless otherwise stated by “GR” or (CR/NC), all courses are offered with a choice of letter grade or CR/NC option.

Because transfer institutions often do not accept CR/NC grades in a student’s major, the college recommends that courses in the major be taken for a letter grade.

Instructors are required to give all students who complete the course a letter grade (A-F), regardless of student choice, unless the course is offered only for CR/NC grading.

None of the units attempted under the CR/NC grading option are used in computing the student’s grade point average. However, units attempted for which "NC" is recorded are counted in determining progress probation and progress dismissal.

Fourteen units of CR/NC may be used toward graduation. An evaluation on a "CR/NC" basis may not later be changed to a letter grade, nor may the reverse occur. (Section 55752 Title V, Effective Spring 1985.)

CAUTION: Some schools may consider "NC" the same as "F".

Prerequisites

Modesto Junior College requires satisfactory completion of all prerequisite courses prior to the student enrolling in the subsequent course. “Satisfactory completion” means a grade of A, B, C, or CR (credit). Grades of D, F, or NC do not qualify as meeting prerequisites.

In some cases, a student may possess the equivalent of a given prerequisite. This may occur when a student has taken the prerequisite course at another college or the student has received equivalent training in the workforce. Students who believe they possess the equivalent of “satisfactory completion of the prerequisite course” should visit the Records Office, Morris Memorial Building, Room 107, and complete a petition describing this equivalent course or experience. Students must provide documentation such as transcripts or employment records to demonstrate this equivalency.

Grade Point Average

To graduate and to transfer to other collegiate institutions, the student must have at least a C average (2.0), based on the total grade points earned divided by the total number of units attempted. Students planning to transfer to a four-year university should check with a Counselor.
A course or unit attempted is any course or unit which in any semester appears on the official transcript. Courses with an Incomplete (I grade), a Withdrawal (W grade), Credit (CR grade) or No Credit (NC grade) do not count in the grade point average. All other credit courses attempted are included in the average.

**Report Cards**

Report cards are not issued at MJC. Grades are posted online at www.mjc.edu after the term has ended.

Enrollment and grade verifications will be issued upon written request in the Admissions Office. Students should allow at least ten (10) working days for the processing of verifications. Verifications are not processed during registration periods. Verification requests submitted during registration periods will be available the third week of the term. (See page 26.)

**Academic Renewal Regulation**

Modesto Junior College regulations permit the removal of work completed at MJC which is substandard and not reflective of a student’s present scholastic ability and level of performance. The grades so removed will be disregarded in the computation of grade point averages.

1. Substandard work completed at MJC (grades of “D”, “F”, and/or “NC”) may be removed from a maximum of two terms under the following conditions:
   a. A period of at least two years has elapsed since the work to be removed was completed.
   b. The work to be removed does not include courses previously used to establish eligibility for transfer, graduation, or certificates of achievement.
   c. Courses that have been repeated do not qualify for academic renewal.
   d. The student has completed at MJC or another accredited college, since the work to be removed was completed, at least 15 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.5 GPA, or 45 semester units with at least a 2.0 GPA.
   e. The terms need not be consecutive.
   f. If satisfactory course work has been completed in a semester where unsatisfactory course work has also been completed, the student can elect to have only the unsatisfactory course work removed.

2. Students wishing to use the academic renewal procedure should submit an application for academic renewal. Applications are available in Morris Building, Room 107.

3. When work is removed under (1) above, the permanent academic record shall be annotated in such a manner that all work remains legible, insuring a complete academic history.

**Improvement of Grades**

Beginning with the Summer 2004 term, courses in which substandard grades of “D”, “F”, “No Credit,” or “W’s” were earned may be repeated only once. Students will be blocked from registering a third time for the same course if two substandard grades (D,F, NC, or W) have been recorded in previous grading periods. A student will not be permitted to enroll again in the course except under unusual circumstances and upon approval by the Petitions Committee. Petitions are available in Morris Memorial 107 and must be filed no later than the end of the first week of that term in which the class is to be repeated.

When a course in which a D grade was received is repeated, the student will receive the new grade and grade points earned but will receive no additional units for the course.

When a course in which an F, W, or NC grade was received is repeated, the student will be given both the units and grade points earned.

Courses in which the student has earned a (C) or better (including CR) may not be repeated for improvement of grade.

**Challenge of Grades/Academic Record Symbols**

To conform to the provision of Section 55760(a) of the California Administrative Code, Title 5, the determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency.

Modesto Junior College procedures for challenging a final grade are as follows:

1. THERE SHALL BE A TWO YEAR TIME LIMIT FOR CHALLENGING ANY EVALUATIVE OR NON-EVALUATIVE SYMBOL. This limit will begin at the end of the session in which the symbol was assigned.

2. The correction of grades given in error shall include expunging the incorrect grade from the record;

3. Student should complete the appropriate forms to challenge academic record symbols which are available in the Records Office, Morris Memorial 107.

**Official Transcripts**

**EAST CAMPUS: Records Office**

Morris Memorial Building, Room 107
Website: mjc.yosemite.cc.ca.us/records/transcriptrequest.pdf
Phone: (209) 575-6018
FAX: (209) 575-6723
Hours: M-F 8:00 AM – 4:30 PM
Summer Hours: M-Th 7:30AM – 5:30 PM F CLOSED

Official transcripts will be issued upon written request to the Records Office. Processing time is 3-5 working days. To comply with the student privacy laws, transcripts cannot be sent in response to telephone requests. Transcripts cannot be issued without written consent or release signed by the student with the exception of transcripts being sent directly to another educational institution. Official transcripts are provided for a fee of $5 per transcript payable in advance. The first two transcripts are free of charge. Official transcripts will be provided within 24 hours on an emergency basis for a fee of $10, and on-the-spot transcripts will be available for a fee of $20.

Official transcripts will not be issued for students who have a financial obligation to the college or any other type of hold on their records. Any financial obligation to the college should be
resolved in the Business Office. For information on requesting transcripts, visit the Records Office or the Records website.

Enrollment and Grade Verification

Enrollment and grade verifications will be issued upon written request to the Admissions Office. Students should allow at least ten (10) working days for the processing of verifications. Verifications are not processed during registration periods. Verification requests submitted during registration periods will be available the third week of the term.

To comply with student privacy laws, students must request verifications by completing and signing a Verification Request Form, available in the Admissions Office. Official verifications are provided for a fee of $3 per verification payable in advance. The first two verifications are free of charge. Verifications will be provided within 24 hours for a fee of $10, or on an emergency basis for a fee of $20.

Verifications will not be issued for students who have a financial obligation to the college or any other type of hold on their records. Any financial obligation to the college should be resolved in the Business Office. For information on requesting MJC verifications, students may go to the Admissions Office.

Petitions

EAST CAMPUS: Records Office
Morris Memorial Building, Room 107
Phone: (209) 575-6040
FAX: (209) 575-6797
Hours: M-F 8:00 AM – 5:00 PM
Summer Hours: M-Th 8:00 AM – 5:00 PM
F CLOSED

A student may Petition/Apply to the MJC Records Office for specific consideration such as: Grade Correction, Permission to take Excess Units, Academic Renewal, Credit by Examination, Maximum Repeat of a Course, etc. Petitions/Applications will be reviewed by the Petitions Committee, Records Office staff, in some instances, Division Deans, and/or instructors. Petition Forms are available in the Records Office.

Should a request be denied, an appeal to the decision can be made. The appeal must include new or additional information that was not included in the original form. To appeal, complete and submit an Appeals Form available in the Records Office. The Vice President will review the appeal. You will be notified of the decision, in-writing within ten (10) days. The decision of the Vice President is final.

Application for Associate Degree or Certificate of Achievement

EAST CAMPUS: Evaluations Office
Morris Memorial Building, Room 205
Phone: (209) 575-6421
Hours: M-Th 8:00 AM – 5:00 PM
F 8:00 AM – 4:30 PM
Summer Hours: M-Th 7:30 AM – 5:30 PM
F CLOSED

A candidate for an Associate of Arts degree, Associate of Science degree or a Certificate of Achievement must file an application for the degree or certificate in the Evaluations Office, Morris Memorial Room 205. An application for an evaluation for a degree or certificate of achievement will be accepted when a student is in his or her last semester of potential completion. No student is a candidate for graduation until the application is completed. Graduation ceremonies for degree candidates are held at the end of the spring semester each year. Diplomas will be dated at the end of the semester or summer session in which the qualified student applies. Diplomas and certificates are available to successful candidates approximately two months after term is completed.

Multiple Associate Degrees

A student may earn more than one Associate of Arts and/or Associate of Science degree from Modesto Junior College. A course used for a prescribed graduation requirement or to meet general education requirements may count toward more than one degree. However, a student may earn a degree in General College or General Education, but not in both. In addition, a student may not earn an AA and an AS in the same program.

Difference Between AS and AA Degrees

The major difference between the Associate of Science degree and the Associate of Arts degree is in the purpose underlying the programs. The Associate of Arts assumes the completion of a mid-goal in preparation for the bachelor’s degree or a termination of an effort which is general education or liberal arts-oriented.

The requirements of the Associate of Science degree approximate a program based upon specific, designated courses which tend to be sequential and lead to the attainment of well-defined performance goals or skill proficiencies.

It is the responsibility of the student to consult with a counselor regarding the proper sequence in which courses should be taken to satisfy graduation requirements.

Requirements for Associate of Arts and Associate of Science Degrees, and Certificates of Achievement

The Board of Trustees of the District shall award the Associate of Arts degree, the Associate of Science degree, and the Certificate of Achievement to applicants upon the satisfactory completion of the requirements as listed in this catalog.

It is the student’s responsibility to be aware of degree and certificate requirements and of the student’s standing in regard to those requirements. Students are urged to consult a counselor regarding any questions about degree or certificate requirements for the catalog year the student selects. All references to credit units which appear in this section are to semester units.
Student Records Regulations

Responsibility for student records rests with the Records Office. However, each college department which houses student records is charged with maintaining privacy and access according to college policy. Division deans are responsible for certain student files when those students are enrolled in majors within the dean's division. Students may find files that pertain to them in the division office of their academic major. In addition, student information is maintained under the supervision of the Accounting Supervisor of Business Services (student financial responsibility), Vice President of Student Services (financial aid, counseling materials, placement data), Vice President of Instruction, (apprenticeship, community services, work experience), and the Dean of Matriculation, Admissions and Records (all permanent academic files).

Student records will be reviewed annually, and those which are no longer useful to the student or the college will be destroyed in accordance with Title V regulations.

Student information designated as public directory information may be released at the discretion of the college to anyone at any time unless the college has received a prior written objection from the student specifying information which should not be released. Modesto Junior College will not release directory information for use in advertising or publicity. Directory information includes the student participation in officially recognized activities and sports, including weight and height of members of athletic teams and high school of graduation of athletic team members, degrees and awards received, including honors, scholarship awards, athletic awards, and President's List recognition.

A student's records are open to the student, employees of the college acting in the course of their duties, and state and federal officials as defined in Sections 54610 and 54622 of the California Administrative Code.

MJC may grant access to individual student records for educational or emergency purposes and for court orders as permitted in Sections 54620 and 54622 of the California Administrative Code.

Students may ordinarily review their records at any time during working hours. The college will make records available within five to ten working days of a student's written request.

Students can file a complaint against MJC if they feel a privacy or records access/correction violation has been made. The complaint must be made in writing to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

Student Records & Privacy Act

For the purposes of this policy, Modesto Junior College (MJC) uses the following definitions of terms. Student - any person who attends or has attended Modesto Junior College (MJC). Education records - any record (in handwriting, computerized print, tapes, film, or other medium) maintained by MJC or an agent of the college that is directly related to a student, except:

1. A personal record kept by a staff member, if it is kept in the personal possession of the individual who made the record, and information contained in the record has never been revealed or made available to any other person except the maker’s temporary substitute.
2. An employment record of an individual whose employment is not contingent on the fact that he or she is a student, provided the record is used only in relation to the individual’s employment.
3. Records maintained by MJC Security if the record is maintained solely for law enforcement purposes, is revealed only to law enforcement agencies of the same jurisdiction and does not have access to education records maintained by the College.
4. Records maintained by Health Services if the records are used only for treatment of a student and made available only to those people providing the treatment.
5. Alumni records containing information about a student after he or she is no longer in attendance at the college and the records do not relate to the person as a student.

Procedure to Inspect Records

Students may inspect and review their education records upon request to the appropriate record custodian. Students should submit to the record custodian or an appropriate college staff member a written request identifying as precisely as possible the record or records he or she wishes to inspect. The record custodian or an appropriate college staff member will make the needed arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given in 15 days or less from the receipt of the request. When a record contains information about more than one student, the student may inspect and review only the records that relate to him or her.

Right to Refuse Access to Records

MJC reserves the right to refuse student access to the following records:
1. The financial statement of the student’s parents.
2. Letters and statements of recommendation for which the student has waived his or her right of access, or which were placed in file before Jan. 1, 1975.
3. Those records which are excluded from the FERPA definition of education records.

Refusal to Provide Copies of Records

MJC reserves the right to deny transcripts or copies of records not required to be made available by FERPA if the student:
1. lives within commuting distance of the college.
2. has an unpaid financial obligation to the college.
3. has an unresolved disciplinary action against him or her.

**Fees for Copies of Records**

The fee for copies will be 10 cents per page. The fee for subpoenas is $15.00. For transcript and verification fees, see p. 18.

**Disclosure of Records**

MJC will disclose information from a student’s education records only with the written consent of the student, except:
1. To college officials who have a legitimate educational interest in the records. A college official is:
   a) A person employed by the college in an administrative, supervisory, academic, research or support staff position.
   b) A person elected to the Board of Trustees.
   c) A person employed by or under contract to the college to perform a special task, such as the attorney or auditor.
   A college official has a legitimate educational interest if:
   a) Performing a task that is specified in his or her position description or by a contract agreement.
   b) Performing a task related to a student’s education.
   c) Performing a task related to the discipline of a student, or
   d) Providing a service or benefit relating to the Student or student’s family, such as health care, counseling, job placement or financial aid.
2. Information defined as directory information.
3. To officials of another school or college, upon request, in which a student seeks or intends to enroll.
4. To certain officials of the U.S. Department of Education, the Comptroller General and state and local educational authorities, in connection with certain state or federally supported education programs.
5. In connection with a student’s request for or receipt of financial aid, as necessary to determine the eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid.
6. To organizations conducting certain studies for or on behalf of the college.
7. To accrediting organizations to carry out their functions.
8. To parents of an eligible student who claim the student as a dependent for income tax purposes.
9. To comply with a judicial order or a lawfully issued subpoena.
10. To appropriate parties in a health or safety emergency.

**Correction of Records**

Any student may file a written request with the President to correct or remove information recorded in his student records which he or she alleges to be (1) inaccurate; (2) an unsubstantiated personal conclusion or interference; (3) a conclusion or interference outside of the observer’s area of competence; or (4) not based on the personal observation of a named person with the time and place of the observation noted. This procedure does not include the correction of a grade.

**The Solomon Amendment**

Federal statute (public law 104-208 and public law 104-206, commonly known as the Solomon Amendment) requires that community colleges provide student directory information to the Department of Defense, including military recruiters, upon request.


Research, including assessment and evaluation of the teaching and learning process, will be conducted at Modesto Junior College in established or commonly accepted educational settings and will involve normal educational practices.

Information gathered related to your knowledge, skills, attitudes, and behaviors will be kept anonymous and/or confidential, and your participation exposes you to no or minimal risk of harm. By enrolling and attending Modesto Junior College courses, you have volunteered as subjects, have been fully informed, and given your consent to participate in education-based research. If the research parameters change, you will be fully informed of the changes. The Family Educational Rights and Privacy Act of 1974 (FERPA) is a federal law regarding the privacy of student education records and the obligations of the institution, primarily in the areas of release of the records and the access provided to these records. You are protected under both FERPA law and the Human Subjects Review process.

**Record of Requests for Disclosure of Records**

MJC will maintain a record of all requests for and/or disclosure of information from a student’s education records. The record will indicate the name of the party making the request, any additional party to whom it may be disclosed and the legitimate interest the party had in requesting or obtaining the information.
Graduation with Honors
Graduating students achieving a cumulative grade point average of 3.5 or higher in all degree-applicable coursework, including transfer work, will graduate with honors. This honor will be indicated on the transcript and the diploma.

President’s List
To be eligible for the President’s List (formerly Dean’s List) the student must complete a minimum of 12 degree applicable units at MJC and have a grade point average (GPA) of 3.5 or better with no grade lower than a C (See Honor Society, p. 40). The student receives a personal letter of commendation.

Good Standing
A student is in good standing academically when the grade point average is 2.0, a C average, or better, and the student has completed at least 50% of courses attempted.

Academic Probation and Dismissal
A student shall be placed on academic probation if he or she has attempted a minimum of 12 degree applicable units of work and has a grade point average of less than 2.0 (“C”).

A student who is on academic probation shall be subject to dismissal if the student has earned a cumulative grade point average of less than 2.0 in all units attempted in each of three (3) consecutive semesters.

A student on academic probation shall be removed from probation when the student’s accumulated grade point average is 2.0 or higher.

(For information on Readmission after Dismissal, see p. 13).

Progress Probation and Dismissal
A student shall be placed on progress probation if he or she has enrolled in a total of at least 12 semester units and the percentage of all units in which the student has enrolled, for which entries of “W”, “I”, and “NC” were recorded reaches or exceeds fifty percent (50%).

A student who is placed on probation may submit an appeal in accordance with procedures to be established by the Chancellor.

A student who is on progress probation shall be subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of “W”, “I”, and “NC” are recorded in at least three (3) consecutive semesters reaches (50%) fifty percent.

A student on progress probation shall be removed from probation when the percentage of units in the categories of “W”, “I”, and “NC” drops below fifty percent (50%).

A student who is subject to dismissal may submit a written appeal in compliance with administrative procedures. See Petition Appeals.

Standards of Conduct
A student enrolling at Modesto Junior College assumes an obligation to conduct oneself in a manner compatible with the published college regulations and with the college’s function as an educational institution. Students may take part in any orderly, authorized activity which takes place in the name of Modesto Junior College so long as the activity does not in any way interfere with the primary function of the college-education.

The following are violations of the Standards of Conduct for which students are subject to college discipline at all times, on campus and applies to any off-campus functions sponsored or supervised by the college.

1. Causing, attempting to cause, or threatening to cause physical injury to another person.

2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a district employee, which is concurred in by the college president.

3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.

4. Committing or attempting to commit robbery or extortion.

5. Causing or attempting to cause damage to district property or to private property on campus.

6. Stealing or attempting to steal district property or private property on campus, or knowingly receiving stolen district
property or private property on campus.

7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the district.

8. Committing sexual harassment as defined by law or by district policies and procedures.

9. Engaging in harassing or discriminatory behavior based on race, religion, creed, color, national origin, ancestry, disability, sex (i.e., gender), marital status or sexual orientation or any other status protected by law.

10. Willful misconduct which results in injury or death to a student or to college personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the district or on campus.

11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.

12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.

13. Dishonesty; forgery; alteration or misuse of college documents, records or identification; or knowingly furnishing false information to the district.

14. Unauthorized entry upon or use of college facilities.

15. Lewd, indecent or obscene conduct on district-owned or controlled property, or at district-sponsored or supervised functions.

16. Engaging in expression which is obscene; libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises, or the violation of lawful district administrative procedures, or the substantial disruption of the orderly operation of the district.

17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

18. Obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other college activities, including its public service functions, or any other authorized activities. Pagers, cellular telephones and other similar electronic devices must be turned off in classrooms and other campus sponsored events unless authorized by an appropriate faculty or staff member.

Disciplinary Action

The following forms of disciplinary action may be taken against a student found to be in violation of any of the foregoing Standards of Conduct

1. Reprimand—A person receiving a reprimand either verbal or written, is hereby notified that continued conduct of the type described may result in formal disciplinary action against the student.

2. Disciplinary Probation—Formal disciplinary action resulting in any one or all of the following:

   a. Ineligibility to hold college organization offices
   b. Removal from any college organization office held
   c. Revocation of the privilege of participating in college and/or student-sponsored activities

3. Instructor Removal—An instructor may remove a student from his or her class for the day of the removal and the next class meeting.

4. Suspension—Formal disciplinary action denying a student all campus privileges for a specified period of time. A suspended student cannot occupy any portion of the campus and is denied all college privileges including class attendance and privileges noted under “disciplinary probation” for a specified, limited period of time. There shall be two classes of suspensions. “Summary suspension” is to protect the school from the immediate possibility of disorder or threat to the safety of students. “Disciplinary suspension” serves as a penalty against a student as a result of the failure of his/her conduct to meet standards expected by the college.

5. Expulsion—Formal action taken by the Board of Trustees terminating a procedure may be obtained from the Vice President, Student Services, Morris, 212.

All disciplined parties have the right to appeal. Copies of the appeal procedure may be obtained from the Vice President, Student Services, Room 212, Morris Administration Building.

Academic Freedom

Students have the right to listen, the right to decide, the right to choose, the right to reject and the right to express and defend individual beliefs. As members of the MJC community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth.

The educational purpose of the college is best served by this freedom of expression. Students are free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Student performance will be evaluated on a broad academic basis, not on opinions or conduct in matters unrelated to academic standards.

Course Outlines

All courses at MJC are governed by a course outline which includes but is not limited to the course objectives, content, methods of evaluation, and teaching methods. All course sections, though varying in specific content and character, must include at the minimum the objectives, content and standards specified in the course outline. To obtain a copy of the official course outline for an MJC course, visit the MJC Instruction Office, Morris, 205E.
Academic Integrity

VIOLATIONS OF ACADEMIC INTEGRITY

All faculty, administrators, and some staff share the original jurisdiction for conduct violations in the area of academic integrity. The Academic Senate at MJC has defined academic integrity and identified possible means for maintaining academic integrity at the College. The following are violations of academic integrity.

Cheating: Intentionally using or attempting to use unauthorized materials, information or study aids in any academic exercise; misrepresenting or non-reporting of pertinent information in all forms of work submitted for credit.

Facilitating Academic Dishonesty: Intentionally or knowingly helping, or attempting to help, another to violate a provision of the institutional code of academic integrity.

Plagiarism: The grading of a student’s work rests on the fundamental idea that an instructor is evaluating a student’s own work, so cheating or plagiarism demonstrates a failure to complete this most basic requirement of any course. Thus a faculty member may administer academic consequences for violating the Academic Integrity Policy that includes partial or no credit on an exam or assignment. The instructor may also consider that a student’s violation of academic integrity should be a consideration for disciplinary measures, such as suspension or expulsion from the course or the college.

CONSEQUENCES OF VIOLATIONS

The grading of a student’s work rests on the fundamental idea that an instructor is evaluating a student’s own work, so cheating or plagiarism demonstrates a failure to complete this most basic requirement of any course. Thus a faculty member may administer academic consequences for violating the Academic Integrity Policy ranging from partial or no credit on an exam or assignment to an F in the course.

The instructor may also consider that a student’s violation of academic integrity should be a consideration for disciplinary measures, such as suspension or removal from the course or the college. Disciplinary action for violating academic integrity is administered through the Office of the Student Success under Board Policy 5500 Standards of Conduct.

MAINTAINING ACADEMIC INTEGRITY

1. Academic areas may develop for their faculty and students a statement of the application of the Academic Integrity Procedure in their courses; and

2. Each faculty member is encouraged to include in his/her introduction to a course:
   a. A statement of the application of the Academic Integrity Procedure within his/her course.

   b. A statement notifying students that violations of the Academic Integrity Procedure will be reported.

DUE PROCESS PROCEDURAL SAFEGUARDS:

1. Students shall be given notice of the violation and,

2. Students shall be given an opportunity to respond to the allegations.

Student “Right-to-Know” Rates

Completion Rate: 29.9%
Transfer Rate: 15.8%

2001 - 2004 COHORT Data

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Yosemite Community College District and Modesto Junior College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2001, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period. Their completion and transfer rates are listed below. These rates do not represent the success rates of the entire student population at Modesto Junior College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 29.9 percent attained a certificate or degree or became ‘transfer-prepared’ during a three-year period, from Fall 2001 to Spring 2004. Students who are ‘transfer-prepared’ have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 15.8 percent transferred to another postsecondary institution, (UC, CSU, or another California Community College) prior to attaining a degree, certificate, or becoming ‘transfer-prepared’ during a five-semester period, from Spring 2002 to Spring 2004.

Student Nondiscrimination Policy

It is the policy of Modesto Junior College to provide an environment free of unlawful discrimination. Discrimination on the basis of ethnic group identification, religion, age, sex, sexual orientation, color, or physical or mental disability in the College programs, activities, and work environment is unlawful and will not be tolerated by the College.

The College strongly forbids any form of discrimination and has enacted the following procedures to recognize and eliminate unlawful discrimination. These regulations provide for the investigation of alleged unlawful discrimination in its programs or activities. The College will seek to resolve the complaints in an expeditious manner.

Definitions

1. “Color or Ethnic Group Identification” means the possession of the racial, cultural, or linguistic characteristics common to a racial, cultural, or ethnic group or the country or ethnic
group from which a person or his or her forbears originated. (22 California Administrative Code Section 98210(b).)

2. The term “religion” includes all aspects of religious observance, practice and belief, including duties of the clergy or elders. A belief is religious if sincerely held and, in the scheme of the believer, holds a place analogous to that filled by the deity of those people whose religion may be more orthodox or more widely accepted. (22 California Administrative Code Section 98220.)

3. "Age" means how old a person is, or the number of elapsed years from the date of a person's birth. (22 California Administrative Code Section 98230(b).)

4. "Sex" discrimination includes:
   a. any rule, policy, or practice concerning actual or potential parental, family, or marital status which differentiates on the basis of sex or sexual orientation;
   b. any rule, policy, or practice concerning disability due to pregnancy, childbirth, recovery from childbirth or termination of pregnancy, or other psychological conditions related to the capacity to bear children not applied under the same terms and conditions and in the same manner as any other rule, policy, or practice relating to any other temporary disability except as otherwise provided by the Fair Employment Practice Act;
   c. any rule, policy, or practice which treats men and women differently for purposes of any program or activity on the basis of aggregate statistical characteristics of men or women, whether founded in fact, belief or statistical probability;
   d. any rule, policy, practice, or incident which conditions the receipt of any benefit upon entering into, or maintaining, a sexual relationship or participation in sexual activity, or subjects a person to sexual harassment or intimidation such as unwelcome sexual advances, requests for sexual favors or other verbal or physical conduct of a sexual nature. (22 California Administrative Code Sections 98240, 98242, 98244.)

5. “Sexual orientation” means a private reference of an individual for heterosexuality, homosexuality, or bisexuality; or a history of such a preference; or an identification with having such a preference.

6. “Physical or Mental Disability” means any physical or mental impairment which substantially limits one or more major life activities.
   a. "Disabled person" means any person who has a physical or mental impairment which substantially limits one or more major life activities, has a record of such an impairment, or is regarded as having such an impairment.

**Sexual Harassment Policy**

Sexual harassment is a form of unlawful sexual discrimination and will not be tolerated by the College.

**SEXUAL HARASSMENT INCLUDES:**

1. submission to conduct which is explicitly or implicitly made a term or a condition of an individual's employment, academic status, or progress;
2. submission to, or rejection of, conduct by an individual which is used as the basis of an employment or academic decision affecting the individual or has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment; and
3. submission to or rejection of, conduct by the individual which is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the educational institution. (Education Code Section 212.5.)

The College strongly forbids any form of sexual harassment, including acts of nonemployees. Disciplinary action will be taken promptly against any student or employee, supervisory or otherwise, engaging in sexual harassment.

**Discrimination Complaint Procedure**

In the pursuit of academic studies and other college-sponsored activities that promote intellectual growth and personal development, the student should be free of unlawful discrimination by any member of the academic community. (Students disturbed by the acts of another student have recourse through the Standards of Conduct.)

Modesto Junior College ensures that its programs and activities, including employment, are available to all qualified persons without regard to ethnic group identification, religion, age, sex, sexual orientation, color, or physical or mental disability.

Discrimination complaints may be initiated by a student against an instructor, an administrator, or a member of the classified staff. When a student feels he/she has suffered unlawful discrimination, he/she shall within one year of the occurrence of the incident(s) meet with the Vice President, Student Services.

Students are advised to obtain written instructions for the filing of a complaint from the office of the Vice President, Student Services. You may also contact the Americans with Disabilities Act (ADA) Coordinator (209) 575-6267 (voice) or (209) 575-6863 (TTY).
Safety on Campus

**Emergency Call Boxes**

There are small orange boxes located in most of the college parking lots. The call boxes may be used to call (1) for a security escort, (2) for a battery jump or door unlock, (3) for any type of emergency service on campus, and (4) to report day pass machine malfunctions.

**Escort Service**

Campus security officers are available during day and evening hours to escort students to their cars. An escort may be requested by calling Campus Security or using one of the parking lot call boxes.

**Campus Security Act**

The Annual Security Report is available upon request from Campus Safety/Security at (209) 575-6737.

**Drug and Alcohol Abuse Prevention**

Through the Drug-Free Schools and Communities Act Amendments of 1990, learning institutions are required to implement drug prevention programs. This includes the annual notification of the following drug and alcohol use policy.

MJC is committed to the success of all students. Drug and alcohol use can be a major hindrance to achieving a successful school career. There are physical and psychological health risks associated with drug and alcohol use, including but not limited to, exhaustion, decreased immunity, depression, and decreased coordination. Generally, persons who use illegal drugs and/or abuse alcohol can expect a decline in their quality of life.

MJC Health Services and Wellness Programs offer education and information on drug use and also can refer students to community agencies for counseling or rehabilitation.

According to MJC’s Standards of Conduct, students are subject to disciplinary action for the use or distribution of illicit drugs and alcohol on college property or during college-related activities. This can include expulsion from college and/or punishment under local, state and federal law.

**2002-2005 Crime Statistics**

For MJC East and West Campuses Combined

<table>
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<th>Crime</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sexual Offenses - Forcible</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Murder</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aggravated Assault</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Robbery</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
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<td>6</td>
<td>2</td>
</tr>
<tr>
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<tr>
<td>Drug Law Violations</td>
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</tr>
<tr>
<td>Liquor Law Violations</td>
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<td>0</td>
</tr>
</tbody>
</table>
Lost and Found

EAST CAMPUS: Security Counter, Champion Bldg. (209) 575-6747
WEST CAMPUS: John Muir, 151 (209) 575-3651

Found property should be turned in to Campus Security at either location listed above within 24 hours. During the first week, property may be claimed at either location. After the first week, property turned in to East Campus Security counter will be sent to West Campus Security, and all lost and found property may be claimed at West Campus Security only.

Personal Safety Tips

In the interest of ensuring personal safety, students are encouraged to observe the following precautions:

- Avoid isolated places, day or night
- Always walk in pairs. There is safety in numbers.
- Be security-conscious. Watch out for others and their property.
- Be responsible. Report all crimes and unusual activity to Campus Security.
- Use well-lighted walkways.
- Park in well-lighted areas, away from shrubbery and trees.
- Always lock your car and take your keys.

Sexual Assault

Sexual activity without mutual and expressed consent is sexual assault. Acquaintance/date rape is a serious problem on college campuses. Awareness and clear, assertive communication are the best tools for prevention. For more information concerning this issue, contact the Health Services Office, Morris Memorial Building, Room 108.
The Student Services Program in the college has as its chief function the facilitation of the education, growth and development of students. The program is organized in a series of activities which relate to meeting the needs of students in achieving their educational goals. On the pages that follow, each activity is listed and the services are explained.

Welcome Center

**EAST CAMPUS:** Student Center  
Phone: (209) 575-6789  
FAX: (209) 575-6667  
Hours: M-F 8:00 AM - 5:00 PM  
Summer Hours: M-Th 7:30 AM - 5:30 PM  
F CLOSED

The Welcome Center is located in the Student Center on East Campus. The Center houses MJC Outreach and assists students and community members with college information throughout the year. The Center distributes brochures, pamphlets, and literature describing MJC services and programs. Campus and city maps and bus schedules are also available in the Welcome Center.

In addition to providing resource materials, the Welcome Center serves as the college’s link with faculty and instructional divisions during registration. The Center can answer registration questions. Staff are knowledgeable about all registration procedures and assist students with the registration process. The Welcome Center provides information and referrals to students regarding campus policies, campus activities, services, and events; assists new students with campus orientation and registration; makes referrals for students needing special assistance from MJC’s support services; and carries out the college’s outreach plan. Students may walk-in without appointments to obtain campus-related information.

Counseling and Guidance

**EAST CAMPUS:** Morris Memorial Building, Room 103  
Phone: (209) 575-6080  
FAX: (209) 575-6720  
Hours: M-F 8:00 AM - 5:00 PM  
Evening Hours: Please refer to counseling website at www.mjc.edu or call the counseling center for more information.  
Summer Hours: M-Th 7:00 AM - 5:00 PM  
F CLOSED  
**WEST CAMPUS:** Limited appointments available. Call for details.

The counseling and guidance program assists students with decisions which affect their career goals. First-time students should enroll in Guidance 109, 110, 111, 112, 166, or 122 during their first semester. These courses are designed to help students become better acquainted with the education opportunities at MJC and develop a program of study that will help them attain their educational goals.

Counselors are available to assist students in identifying needs, assessing strengths, and overcoming barriers to fulfilling their educational objectives, including transfer to four-year colleges and universities. Counselors may also assist students in the selection of appropriate programs of study relative to their chosen objectives. Individual student-counselor conferences are available by appointment or walk-in.

In addition to a general counselor, the student has a department advisor to help in program planning, and instructors are available for individual advising within their subject field.

Career Development & Transfer Center

**EAST CAMPUS:** Library Annex, 103  
Phone: (209) 575-6239  
FAX: (209) 575-6408  
Student Job Information hotline: (209) 575-6821  
Internet: www.mjc.edu/jobsforstudents  
Hours: M-F 8:00 AM - 5:00 PM  
Summer Hours: M-Th 8:00 AM - 4:30 PM  
F CLOSED

The Career Development and Transfer Center is a multi-faceted center which houses the Career, Job Placement, and Transfer Centers under one roof.

The **Career Center** provides current occupational information to all students and potential students through books, software programs and Internet access. The center offers assessments as well as resources that can help students determine career goals. Referrals are made for career testing and/or career counseling depending on the student’s needs and/or requests.

The function of the **Job Placement Program** is to assist currently enrolled students and alumni in obtaining full or part-time employment on and off campus. Employment Services serves as a liaison with employers throughout the area who are seeking full or part-time personnel. Additionally the center provides assistance with resume-writing, job hunting and interviewing.

Throughout the year there are a variety of workshops, seminars and job fairs sponsored by the center. These events and activities are free, open to students and community members.

The Transfer Center’s function is to assist MJC students in making a smooth transition to four-year colleges and universities. The Center supports students who plan to transfer with an array of services.
resources and services. Special support is provided to students who have been historically underrepresented. Some of the Transfer activities sponsored by the Center are:

- Assistance with admission procedures and referral to academic advisement.
- Resources such as college catalogs (1,200 catalogs available for check-out).
- Fee waivers, electronic applications and articulation agreements.
- Field trips to universities and four-year colleges
- Individualized appointments with representatives from four-year colleges and universities
- Transfer Admission Agreements (TAA) to designated four-year universities
- Annual Transfer Day/College Night with over 60 college and universities represented

Child Care at MJC

**WEST CAMPUS:** Child Care Services Office- John Muir 157
Phone: (209) 575-6398
Fax: (209) 575-6973
Hours: M-Th 7:30 AM - 5:00 PM

The Child Development Center provides high quality child care for children aged six weeks through the time at which they are eligible for kindergarten. Funded programs include Early Head Start, State Preschool, and General Child Care. Priority is given to MJC students while they attend class, study and/or work. Fees may be charged based on the family income and size.

Trained teachers provide creative art activities, small group music, movement and stories, outdoor activities and help promote the child’s social, creative, emotional, and physical development.

Financial assistance for child care is available to qualified students. Additional information may be obtained by calling the Child Care Services Office.

Disability Services

**John Martinez**
Dean for Special Programs

**EAST CAMPUS:** Journalism Building, Room 160
Phone: (209) 575-6225
TTY (209) 575-6863
FAX: (209) 575-6852
ADA Coordinator (209) 575-6861 (voice) or (209) 575-6863
Hours: M-F 8:00 AM - 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED

The Disability Services Program is a system of support services and classes available to students with verified disabilities.

Disability Services and classes are designed to meet the individual needs of the students, allowing them an equal opportunity to benefit from their educational experiences. Supportive help may include program-planning assistance, priority registration, in-class aides, reader service, note-taking help, sign language interpreting, mobility assistance, and assistance with alternate media. Job development help is available for qualified students, as well as an adaptive computer technology training program.

Emergency Locating Service

**Student Development & Campus Life Office**
**EAST CAMPUS:** Student Center
Phone: (209) 575-6700
Hours: M-Th 8:00 AM - 5:00 PM F 8:00 AM - 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED
The Emergency Locating Service offers students the ability to leave an MJC telephone number with family members, child care provider, or employers in case of an emergency. In an emergency, the Locating Service tells MJC where the student “should” be, and a staff member is dispatched to contact the parent in his/her class. To be a part of the Emergency Locating Service, a student provides his/her current class schedule to the Service on a special form. (Class schedules must be updated each semester). Emergency Locating Service Forms are available in the Student Development and Campus Life Office, located in the Student Center. Without an Emergency Locating Service form on file, a message cannot be delivered to a student.

Extended Opportunity Program and Services (EOP&S)

John Martinez
Dean for Special Programs

EAST CAMPUS: Morris Memorial Building, Room 112
Phone: (209) 575-6251
FAX: (209) 575-6250
TTY: (209) 575-6633
Hours: M & F 8:00 AM – 5:00 PM  TWTh 8:00 AM – 7:00 PM
Summer Hours: M-Th 7:30 AM – 5:30 PM  F CLOSED

The goal of EOPS is to facilitate the college enrollment, persistence and retention of students with histories of educational and economic disadvantage.

EOPS provides students pursuing certificate, transfer, and associate degree programs of study with educational consultation, and counseling, academic advisement, career and life planning, pre-employment, and university transfer services. The program also provides retention services, supplemental tutoring, "early alert” and priority registration services, as well as economic services including textbook grants, an emergency loan program and childcare allowances. An EOPS "College Readiness” program is also offered each Summer session for first-time college students.

The CARE program, a component of EOPS, provides the single parent with head of household status, with at least one child under the age of 14, receiving TANF cash aid, a variety of supplemental educational and economic services, in addition to those received as an EOPS student.

For more information, call or visit the EOPS Office.

Office of Student Success

Martha Robles,
Director, Student Success & Special Projects

EAST CAMPUS: Library Basement, Room 20
Phone: (209) 575-6641
Hours: M-F 8:00 AM – 5:00 PM

Oversees student success programs such as Tutoring, Supplemental Instruction (SI), Title V, TRIO/SSSP and the Book Loan program. Also handles issues related to student conduct.

Parking

The District and College provide parking facilities for vehicles for the sole purpose of conducting college business. All persons parking on campus must pay fees as prescribed by the Board of Trustees.**

Students: All full or part-time students who have paid the required fee are eligible for first-come, first-served parking in designated student parking areas.

Staff: All full-time and part-time staff who have paid the required fee are eligible for parking in specific assigned areas marked in blue on a first-come, first-served basis. The term STAFF does not include tutors, student employees, or student assistants, but applies only to contract employees of the Yosemite Community College District.

Citations: All vehicles, operated or parked in violation of these regulations will be cited with a Municipal Court citation under authority of 21113a of the California Vehicle Code. All citations are payable by mailing them to:

YCCD Modesto Junior College
Payment Processing Center
P.O. Box 896
Hawthorne, CA 90250

Parking Enforcement Hours/Days: Enforcement of parking and traffic regulations is continuous (24 hours a day, seven days a week). Parking fee and staff reserve regulations are not in effect from 5 p.m. on Friday to 7 a.m. on Monday and on college holidays and exempt days.

The visitor parking areas on North and South Drive adjacent to the Morris Memorial Administration Building are restricted to 30-minute parking for guests of the college, as are all visitor parking zones on east and west campus. Parking permits are NOT valid in visitor parking areas.

**The District/College does not take custody of vehicles and only rents space. No responsibility is assumed for fire, theft, damage, or loss to vehicles, their occupants, or contents while on District/College property.

TRIO Programs

EAST CAMPUS:
Location: Morris Memorial Building, Room 207
Library Basement, Room 40 (Student Support Services only)
Phone: (209) 575-6743 (TRIO/Educational Talent Search)
(209) 575-6715 (TRIO/Upward Bound)
(209) 575-6189 (Student Support Services)
FAX: (209) 575-6243

Hours: M-Th 8:00 AM - 5:00 PM  F 8:00 AM – 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM  F CLOSED

TRIO/Educational Talent Search

TRIO/Educational Talent Search is designed to help young people stay in school, improve their GPA, graduate from high school, and go to college. It is funded by the U.S. Department of Education and is designed to help low-income, first-generation college-
bound students enter post-secondary education. The Modesto Junior College TRIO/Education Talent Search Program serves over 600 students from Hanshaw Middle School, Mark Twain Junior High School, Modesto High School and Downey High School. A variety of academic and cultural activities are available to TRIO/Education Talent Search students. For more information, visit The Educational Talent Search Office.

TRIO/Student Support Services Program

The Student Support Services Program is designed for first-generation college students to promote student success, retention, graduation and transfer to a four-year college or university. TRIO/Student Support Services Program provides innovative academic and supportive services specifically designed to meet the needs of transfer students. Program services include: academic and personal counseling; tutoring services; cultural activities, college and university campus tours; information about financial aid and scholarships; career advising; and workshops to develop and enhance academic and personal skills.

For additional information, visit our office located in Library Basement, Room 40 or call (209) 575-6189.

TRIO/Upward Bound

The purpose of the TRIO/Upward Bound Program is to identify disadvantaged young people with potential for post-secondary education, and to offer them a comprehensive program of intervention activities designed to generate the skills and motivation necessary for success in college. The program serves 50 students from three local high schools (Davis, Johansen and Ceres). Workshops, presentations, tutoring, field trips, Saturday school and a summer academic school are offered. For more information, contact TRIO/Upward Bound.

Health Services - "We Care for You"

| East Campus: Morris Memorial Building, Room 108 |
| Phone: (209) 575-6037 |
| FAX: (209) 575-6786 |
| Hours: (Call for hours) |

| West Campus: Yosemite Hall, Room 114 |
| Phone: (209) 575-6360 |
| Fax: (209) 575-6589 |
| Hours: (Call for hours) |

The College Health Services Program was established to contribute to the success of the students by promoting physical and emotional well-being, with strong emphasis on preventative health care.

Registered nurses are available to provide first aid, confidential counseling on communicable diseases, nutrition, exercise and weight management, family planning, and all aspects of personal health. Referrals can be made to local community providers as needed. Health Services provides vision and hearing screening, blood pressure monitoring, tuberculosis screening, pregnancy tests, and immunizations. Non-prescription medications are available for minor aches, pains, colds, sore throats, allergies, and upset stomachs, as are pamphlets and brochures, and health-related video presentations. In case a student is ill or would like to catch up on some needed rest, the cot room is available at various times during the semester.

In case of injury on campus when the college is in session, or in any college-related activity, students should contact Health Services to determine eligibility for insurance coverage.

In case of illness, the College provides care in the form of first aid and/or referral service. Physician services are available on a limited basis to students upon referral of one of the college nurses. Confidential services include:

- **Doctor Clinic**: A doctor is scheduled to be on-campus weekly. The doctor can also write prescriptions and make referrals. Please call ahead to schedule an appointment.
- **Stanislaus County Public Health and Family PACT Group**: Provides family planning, and some STD screening once a week.
- **Mental Health**: Referral for group counseling is available for students expressing the need for minor mental health concerns.

Elevator keys are provided by Health Services to students with short or long-term physical disabilities. Special parking permits are provided to students with short-term physical disabilities.

Informational health insurance brochures are available through Health Services Offices.

For the benefit of the student, Health Services works closely with agencies within our community, including but not limited to Center for Human Services, Stanislaus County Faculty Group, Public Health, Modesto City Schools, Project Clean Air, Health Services Agency of Stanislaus County and Women's Haven Center.

Students may be seen by a nurse on a drop-in basis as well as by appointment at the above locations. Call for hours.

CalWORKs

**WEST CAMPUS**: Yosemite Hall, Room 148

| Phone: (209) 575-7770 |
| MJC CalWORKS counselors: (209) 575-7770 |

**Hours**: M-F 8:00 AM - 4:30 PM
**Summer Hours**: M-Th 7:30 AM - 5:30 PM F CLOSED

California Work Opportunity and Responsibility to Kids is a Social Service program that provides cash aid, educational opportunities and other services to needy California families.

Program participants are students who have been referred by the county welfare office or are self-initiated participants (SIP’s). Call to speak with one of the MJC CalWORKs counselors.
Scholarships

WEST CAMPUS: Yosemite Hall, Room 151
Phone: (209) 575-7715
Fax: (209) 575-7718 or 575-7719
Website: www.mjc.edu/financialaid/scholarship.html
Hours: M-F 8:00 AM - 4:30 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED

The Modesto Junior College Scholarship Program offers over 150 scholarships annually to eligible students in amounts ranging from $200 to $2,000. Incoming, continuing and students transferring to a four-year college are encouraged to apply for scholarships at MJC. The scholarships are sponsored by the MJC Foundation, private donors, community agencies and businesses whose aim is to help students achieve their educational goals.

To receive scholarship consideration, students must have a minimum grade point average of 3.0 and plan to attend Modesto Junior College full-time. Students currently enrolled in the MJC Nursing Program are considered full-time students. Selections are based primarily on academic performance and may include other criteria such as major, residency, organizational affiliation and community service.

Scholarship applications are available in the Financial Aid/Scholarship Office. The scholarship application will be available beginning October 2, 2006 with the priority deadline being December 15th 2006. The application period will encompass new-incoming, continuing, and transfer students. The deadline for current high school seniors who will be new-incoming freshmen at MJC is March 30, 2007. Students should contact the Scholarship Office for information on applying for scholarships once the deadline has passed. Check with the Scholarship Office for specific dates and deadlines.

Student Development & Campus Life

EAST CAMPUS: Student Center
Phone: (209) 575-6700
Fax: (209) 575-6143
Hours: M-F 8:00 AM - 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED

The Student Development and Campus Life Office is located in the East Campus Student Center and the West Campus Mary Stuart Rogers Learning Center. It is the home to the student government (Associated Students of Modesto Junior College) and all campus clubs. Student ID cards are provided free of charge, the Emergency Locating Service, Housing Referral, Student Bulletin, Student Activities Program, Student Leadership Trainings, Student Lobbying and campus advertising posting approvals are located here. The Student Development Office coordinates many campus activities and special events.

The Housing Referral Program has been developed to help students and staff find out about affordable and available housing within the city. Housing Referral brochures are available with apartment listings. A Housing Bulletin Board is available for renters seeking student tenants to list rooms, houses or apartments for rent. Students in need of housing check the board regularly.

The Student Development and Campus Life Office produces the weekly Student Bulletin to inform students about important campus sponsored events, services, or important information. Stop by to pick up a bulletin or find out how to announce your activity in the bulletin.

The Student Activity Sticker Program is an optional program where students purchase a $5 activity sticker which is placed on the back of your ID card. The special sticker will afford you special discounts such as a FREE $5.00 Go-Print-Copy card each semester you purchase an Activity Sticker. Your Activity Sticker entitles you to free faxes, copies, scantrons, pencils, local phone calls and more in the Student Development Office. It pays for itself in just one use.

Graduation Exercises

The Student Development and Campus Life Office is responsible for coordinating the graduation commencement exercise. Instructions for graduating will be outlined in an early spring edition of the Graduation Newsletter. The Graduation Newsletter includes information about commencement exercise, student speakers, graduation luncheon, graduates with honors, graduation fees, caps, gowns and announcements. The Graduation Newsletter includes information about graduate photos, awards, and other accomplishments. Graduation tee-shirts may be purchased from the Student Development and Campus Life Office.

Announcements and Advertisements

EAST CAMPUS: Student Center
Phone: (209) 575-6700
Fax: (209) 575-6143
Hours: M-F 8:00 AM - 5:00 PM
Summer Hours: M-Th 7:30 AM - 5:30 PM F CLOSED

Only on-campus organizations and divisions and off-campus non-profit organization will be provided space for posting material in academic buildings. Commercial and personal ads

Students who have successfully met the requirements for Associate degree may participate in graduation exercises.
may be posted on the Student Center hallway bulletin board and Student Center outdoor kiosk. You may post on the West Campus Kiosk outside the Mary Stuart Rogers Learning Center.

All posted materials except commercial and personal ads must be stamped with approval from the Student Development and Campus Life Office, located in the East and West Campus Student Centers or with a personalized stamp from a certificated manager. Certificated Management Staff shall be allowed to determine appropriate posting approval for materials being distributed by their respective department, divisions or unit.

**Student ID Cards**

**Student Development & Campus Life**  
**EAST CAMPUS: Student Center**

**Phone:** (209) 575-6700  
**FAX:** (209) 575-7776

**Hours:**
- M-Th: 8:00 AM - 5:00 PM  
- F: 8:00 AM - 12:00 PM  
- Summer Hours: M-Th: 10:00 AM - 7:00 PM  
- F: CLOSED

Student ID cards are issued free to new students during registration. ID cards are used for transactions in the Admissions and Financial Aid departments, as well as in the Library and Computer Labs. Students should carry their ID cards to enhance campus safety and security. Students may purchase a $5.00 activity sticker to be placed on the ID card for special discounts with local services and activities. Students may go to the Student Development and Campus Life Office located in the East Campus Student Center, Monday-Thursday, 8:00AM to 5:00PM, and Fridays, 8:00 AM-12:00PM; and the West Campus Student Center, Monday-Thursday, 10:00AM-7:00PM to have an ID card made. Call (209) 575-6700 for more information.

**Testing Services at the Testing Center**

**WEST CAMPUS: Yosemite Hall, Room 147**

**Phone:** (209) 575-7728  
**Internet:** [www.mjc.edu/assessment](http://www.mjc.edu/assessment)

**Hours:**
- M-F: 8:00 AM - 4:30 PM  
- Summer Hours: M-Th: 7:30 AM - 5:30 PM  
- F: CLOSED

The Testing Center administers tests for assessment purposes. These tests provide students with results that help them and their counselors understand their individual ability levels.

Testing is one of many measures used by college personnel to assist students in determining course placement in mathematics, English, reading, and ESL courses. Assessment tests are scheduled throughout the year, and should be taken as soon as possible to insure that the results will be available for advising and registration appointments.

Assessment testing is a free service; however, other tests offered through the Testing Center may require a fee. To inquire about test dates and fees, please contact the Testing Center or the Testing Center website listed above.

Students who plan to use courses completed at other colleges to satisfy MJC prerequisites must have official transcripts in the MJC Records Office at least six weeks prior to their registration appointment.

**Veterans’ Services**

**EAST CAMPUS: Morris Memorial Building, Room 104**

**Phone:** (209) 575-6017

**Hours:**
- M-Th: 8:00 AM - 4:30 PM  
- F: 8:00 AM - 12:00 PM  
- Summer: M-Th: 7:30 AM - 5:30 PM  
- F: CLOSED

Modesto Junior College is an approved college for the training of veterans and veteran’s dependents under the various public laws of the United States Department of Veterans Affairs and the California Department of Veterans Affairs. Students eligible for veteran’s benefits are urged to contact the MJC Veterans Affairs Office, well in advance of registration, so that necessary arrangements may be made to activate benefits.

Modesto Junior College recognizes credit and grants credit to veterans and reservists for service and training completed in the armed forces. Veterans and reservists will receive three units of Health Education credit and two units of Physical Education credit upon presentation of their separation papers. Credit for military schools will be granted if recommended in the “Guide to the Evaluation of Educational Experiences in the Armed Services.” Credit for these courses will be granted if appropriate (18 units maximum). Dependents of service-connected disabled or service-connected deceased veterans may be eligible for a waiver of fees. For information or assistance regarding veterans benefits, contact the campus Veterans Services Office.

U.S. Veterans are entitled to an array of benefits and services at MJC.
Financial Aid

Modesto Junior College administers a comprehensive student financial aid program designed to assist students in meeting college costs. The amount of financial aid awarded varies from student to student, depending on the individual’s need and resources. Funds are awarded on a first-come, first-served basis.

Financial aid awards are based on calculated financial need as determined by the Free Application for Federal Student Aid (FAFSA). Students are encouraged to apply online at www.fafsa.ed.gov. Paper applications are available in the Financial Aid Office in Yosemite Hall 147.

Standards for Satisfactory Academic Progress

Financial aid recipients must adhere to satisfactory academic progress standards — maintain a minimum 2.0 cumulative GPA and complete at least 67% of all attempted courses.

Students’ satisfactory academic progress will be reviewed once each academic year at the end of the spring semester or upon students’ initial application for financial aid, whichever comes first.

WITHDRAWALS, INCOMPLETES, AND/OR UNITS NOT COUNTED:

Grades of F, NC, IP, I and RD are not counted as satisfactory academic progress and will not be counted toward total units completed. Bridged classes or open-entry/open-exit classes (IP) will be counted as eligible units for financial aid only during the first semester the class is attempted.

PROBATION/DISQUALIFICATION STATUS

Students who have not met all satisfactory academic progress standards will be placed on Financial Aid Probation and must meet with a counselor to complete or update an Educational Plan, attend a Financial Aid workshop, complete the Satisfactory Academic Progress Quiz, and return a copy to the Financial Aid Office. Failure to do so could result in loss of financial aid.

Students who have not met all satisfactory academic progress standards at the end of the probationary period will be placed on Financial Aid Disqualification. This status will remain in effect until all requirements for satisfactory academic progress are achieved. Students must notify the Financial Aid Office to request reinstatement once these standards are met. Under no circumstances will students be paid retroactively for any ineligible semesters.

PETITION FOR EXTENDED PROBATION

Unusual or mitigating circumstances may warrant special consideration of a disqualified student’s individual situation. A Petition for Extended Probation, available in the Financial Aid Office, must be filed if such a review is desired. Allowable conditions for consideration may include:

   a. Student illness or death in immediate family;
   b. Family stress;
   c. Medical or emotional disability;
   d. Other, for which student can demonstrate good cause.

In order for a petition to be considered, students must submit a Petition for Reinstatement form, a current Educational Plan, and any supporting documentation to the Financial Aid Director. If approved, a letter will be sent to the student, which will clearly identify the conditions for reinstatement and continued financial aid eligibility.

Students whose Petition for Reinstatement has been denied may contact the Financial Aid Office to schedule an appointment to meet with the Financial Aid Appeals Committee. The decision of the Financial Aid Appeals Committee is final.

Federal Programs

To be eligible for federal aid, students must meet certain requirements:

• be a U.S. citizen or eligible non-citizen
• be registered with the Selective Service, if applicable.
• be enrolled in an eligible program leading to a certificate, degree, or transfer program at MJC,
• have a high school diploma or equivalent, or pass an “Ability-to-Benefit” test prior to receipt of Federal funds,
• have “financial need” as determined through the application process
• not owe a refund on a Federal grant or be in default on a Federal education loan
• be making satisfactory academic progress
FUNDING LIMITATIONS
Funding from financial aid resources at Modesto Junior College is limited to 90 attempted units and/or completion of a college degree. Students exceeding these limits may file an appeal if extenuating circumstances have prevented them from completing their program within these limitations. Appeal forms are available in the Financial Aid Office. Students are required to complete the forms and meet with a counselor.

A student who has appealed and been denied may contact the Financial Aid Office to schedule an appointment to meet with the Financial Aid Appeals Committee. The decision of the Financial Aid Appeals Committee is final.

ELIGIBLE PROGRAMS/COURSES
Students must be enrolled in an approved course of study leading to degree, certificate, or transfer to a four-year institution.

RETURN OF TITLE IV FUNDS
Per federal regulations, any student who receives financial aid and then withdraws from all classes prior to completing 60% of the semester/program and/or course will be required to repay a portion of any unearned federal financial aid. If the student has received more than earned, notification will be sent as to the amount of aid to be returned, the due date, and the procedure. If the student has not yet received the full amount earned, notification will be sent regarding a post-withdrawal disbursement the student may receive, the response date, and the procedure.

Federal regulations only allow students to receive financial aid for classes they actually attend. Students who receive financial aid for classes they drop before the first day of class or that they otherwise never attended must return those funds.

There is no appeal process. Federal regulations do not allow a college to make any exceptions to the Return of Title IV requirements. Students who do not repay the funds owed are disqualified from eligibility for federal student aid at any college or university.

Students considering dropping classes should first consult with the Financial Aid Office to understand the implications of a complete withdrawal.

FEDERAL PELL GRANT
The Federal Pell Grant provides federal grants to eligible students to help meet college expenses. Students must file a FAFSA and have financial need as determined by a formula that is applied uniformly to all applicants throughout the nation. The Financial Aid Office calculates the actual award amount depending upon the financial information the student reports on the application, whether the student is enrolled full-time or part-time and the cost of education.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)
These federal grants are designed to assist students with exceptional financial need by supplementing other financial aid sources.

FEDERAL WORK-STUDY PROGRAM (FWS)
Federal Work Study provides part-time employment for students who demonstrate financial need. The Financial Aid Office will assist in placing students in jobs on campus or at off-campus non-profit agencies, as available. Students must not work until an official agreement is on file with the Financial Aid Office and may not work more than 20 hours per week, except during weeks that school is not in session. Current pay is $7.25 per hour. Work-study hourly wages are paid directly to the student to help with educational expenses.

LOANS
Loans are part of a financial aid package that provides an opportunity to defer education costs by borrowing now and paying later. Interest is charged on the amount borrowed at the rate of 5%. Repayment begins 9 months after the borrower ceases to be enrolled or is enrolled less than half time. Loans are awarded on a first-come, first-served basis to eligible students with the greatest need. Eligibility is determined from information provided on the FAFSA.

NOTE: MJC does not participate in any Direct Loan or Federal Family Loan Program.

NURSING STUDENT LOANS
Nursing Student Loans may be available to students in the Associate degree Nursing Program who demonstrate financial need. Loans range from $500 to $2,000 per academic year.

BUREAU OF INDIAN AFFAIRS GRANTS (BIA)
Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Bureau of Indian Affairs

STATE PROGRAMS

BOARD OF GOVERNOR’S FEE WAIVER PROGRAM (BOGW)
The BOGW waives the enrollment fee for eligible students. The BOGW is effective for an entire academic year (Summer/Fall/Spring). There is no minimum unit requirement. Students may apply by filling out the fee waiver application; however, Modesto Junior College encourages students to use the FAFSA application as they may qualify for other additional aid.

CAL GRANTS
Cal Grants are state-funded grants, which are awarded to eligible students to help meet college expenses. Students must file a FAFSA application and submit a GPA Verification Form. The application-filing deadline is March 2nd preceding the award year. A second deadline of September 2nd is available for students on a competitive basis who are planning to attend a community college during the award year.

Cal Grant A assists with tuition and fees for California residents at qualifying institutions offering baccalaureate degree programs. Awards may be held in reserve while attending a community college. There are two types of Cal Grant A awards – Entitlement...
Financial Aid

and Competitive. Every current or previous year high school senior who has at least a 3.0 GPA, meets the financial and academic requirements and applies on time (March 2nd deadline) will receive a Cal Grant A Entitlement award. Other eligible students who have at least a 3.0 GPA may apply for a Cal Grant A Competitive award. Selections are based on a composite score that considers family income, parents’ educational level, GPA, time out of high school, single-family household, and former foster youth.

Cal Grant B provides a living allowance and tuition and fee assistance for low-income students. Beginning with the sophomore year, this award also helps pay tuition and fees at a qualifying institution offering baccalaureate degree programs. There are two types of Cal Grant B awards – Entitlement and Competitive. Current or previous year high school seniors with at least a 2.0 GPA who meet the financial and eligibility requirements and apply on time (March 2nd deadline) will receive a Cal Grant B Entitlement award. Other eligible students with at least a 2.0 GPA may apply for a Cal Grant B Competitive award. Selection is based on a composite score based on family income, parents’ educational level, GPA, time out of high school, single-parent household and former foster youth.

Cal Grant C provides assistance with costs for occupational and vocational programs. Selections are based on financial need, vocational aptitude and enrollment in an eligible program at a California community or independent college or vocational school that is at least four months long. Additional information may be obtained in the MJC Financial Aid Office.

CALIFORNIA CHAFEE GRANT
The Chafee Grant Program awards grants of up to $5,000 annually to foster youth and former foster youth to use for college courses or vocational school training. To be eligible the applicant must have been in foster care between their 16th-18th birthdays and be no more than 22 years old. The applicant must also file a FAFSA, available at www.fafsa.ed.gov as well as the California Chafee Grant Program Application, available at www.csac.ca.gov. Recipients must be enrolled at least half-time.

Scholarships
The Modesto Junior College Scholarship Program offers over 150 scholarships annually to eligible students in amounts ranging from $200 to $2,000. Incoming, continuing and students transferring to four-year colleges are encouraged to apply for scholarships at MJC. Funded by the MJC Foundation, private donors, community agencies and businesses, the scholarships are intended to help students achieve their educational goals.

Applicants must have a minimum grade point average of 3.0 and plan to attend full time. The scholarship application will be available beginning October 2, 2006 with the priority deadline being December 15th, 2006. The application period will encompass new-incoming, continuing, and transfer students. The deadline for current high school seniors who will be new incoming freshmen at MJC is March 30, 2007. Students should contact the Scholarship Office for information on applying for scholarships once the deadline has passed. Check with the Scholarship Office located in Yosemite Hall 151 for specific dates and deadlines, or by calling (209) 575-7715.

The MJC Upsilon Chapter of Alpha Gamma Sigma hosts the annual “Pucker for the Porker” contest to raise money for student scholarships. Whoever receives the most votes wins a kiss from a pig before a large crowd.
Student Life

Clubs & Organizations

The Office of Student Development and Campus Life is responsible for advising and coordinating the activities and programs of student clubs and organizations. Students are encouraged to broaden their horizons by participating in club activities at Modesto Junior College. Clubs are organized to involve students in specialized fields of interest or service to the college and community. If a club does not exist which deals with a student’s special interest, a new club can be formed. Ten MJC students and a faculty advisor are needed to charter a new club. There are approximately 27 existing clubs on campus.

Activities Sticker

Students can purchase an optional Student Activities Sticker for $5 a semester. This sticker transforms their MJC Student ID Card into a discount card. The Student Activities Sticker entitles students to valuable discounts on and off campus. The Activity Fee funds collected are used to help ASMJC support activities and programs such as scholarships, Club Development activities, College Hour events, lectures, and the Student Bulletin. The Student Activities Sticker may be purchased year-round on either campus.

Student Leadership

The East and West Campus Student Centers are the focal point of campus life. The Student Information Center, Admissions Office, Business Office, Bookstore, Cafeteria, Student Lounge and Student Development and Campus Life Office are located there. Video games, ATM machine, vending machines, a coin changer, and lockers are also available. Whether you are sharing a meal, attending a noon-time concert or lecture, volunteering for ASMJC, or just socializing with friends, the Student Center provides numerous opportunities for personal development of students.

The Student Development and Campus Life program offers opportunities for students to develop leadership skills, prepare for civic responsibility, explore diverse cultures and build a strong sense of college community. The program reflects the needs and interests of students. The program is divided into the following areas:

Student Government (ASMJC)

Associated Students of Modesto Junior College (ASMJC) is the official representative body of Modesto Junior College students. Student Government officers and senators must have a 2.3 GPA and have completed at least nine units to meet eligibility requirements. ASMJC is completely student-funded, student-elected, and student-regulated, functioning within the framework of policies adopted by the Yosemite Community College District Board of Trustees. ASMJC is the primary forum through which student concerns are channeled.

Since virtually all major decisions that are made on the Modesto Junior College campus affect students in some way, student input into the various decision-making bodies has become increasingly relevant, necessary and welcomed. ASMJC is the officially recognized “student voice” to the faculty and administration.

ASMJC is also responsible for planning, budgeting and coordinating activities for student enjoyment outside the classroom. Activities range from free noon-time concerts on the Quad, to current events, lectures, recreational trips, cultural presentations, comedy shows, and more. ASMJC’s goal is to expose students to a diverse calendar of events for their enjoyment and leadership development.

In 2004, members from the MJC Black Student Union and other campus organizations gathered to welcome U.S. Army veteran and former P.O.W., Shoshana Johnson, who visited MJC to speak about her experience in Iraq.
Student Life

Student Representation

The Student Representation Fee was amended into the California Education Code by Assembly Bill 2576 in late 1988. The student representation fee is a $1 optional fee that can be implemented on any California Community College campus through a student body election. In April of 1993, the Associated Students held a general student body election with the Student Representation Fee on the Ballot. The fee passed. Eight hundred forty-five (845) students voted in the election, and 563 were in favor of the Student Representation Fee.

The Student Representation Fee is collected together with all other fees at the time of registration, and is deposited in a separate fiduciary fund. Money collected is used by ASMJC to represent student concerns at local, state and federal government levels. A student may refuse to pay the Student Representation Fee for religious, political, financial or moral reasons. The refusal must be put in writing.

Mary Stuart Rogers Learning Center

The new Mary Stuart Rogers Learning Center has available four multipurpose rooms, a food court, TV lounge, game room and computer lab. The Associated Students of Modesto Junior College has an office in the West Campus Student Center as well as the East Campus Student Center.

Honor Societies

The Upsilon Chapter of Alpha Gamma Sigma, Inc., the California Community College Honor Society, is open to qualified MJC students. Initial membership requires completion of 12 units in a maximum of 3 semesters with a cumulative grade point average of 3.0. First semester students who are life members of the California Scholarship Federation are eligible to become temporary members. Continuing membership requires a cumulative GPA of at least 3.0, or a current GPA of 3.0 or above. Active participation in club activities is required.

Permanent membership is granted to graduates with a cumulative GPA of 3.5 or above who have at least one semester of previous membership, or to graduates with a cumulative GPA of 3.25 or above who have 2 or more semesters of membership in AGS. Membership information and applications are available in the Student Development and Campus Life Office.

Phi Theta Kappa is present at MJC with the Beta Mu Theta chapter. Phi Theta Kappa is the largest international honor society in American higher education with more than 1.5 million members and 1,200 chapters located on community college campuses throughout the fifty states, U.S. territories, Canada, and Germany. Phi Theta Kappa’s mission is twofold: 1) recognize and encourage the academic achievement of two-year college students and 2) provide opportunities for individual growth and development through participation in honors, leadership,
service, and fellowship programming. New members will receive a membership pin, diploma seal, and transcript notation of membership. Members are automatically nominated for inclusion in the prestigious National Dean’s List biographical publication and are accorded the privilege of wearing the society’s gold stole and tassel at graduation. Chapter members will be eligible for Phi Theta Kappa scholarships and are automatically enrolled in the society’s transfer database, one of the nation’s leading scholarship engines that links four-year institutions offering scholarships to Phi Theta Kappa members. Members are also eligible for nomination to the USA Academic Team. For more information, call Terry Lyle, program advisor at (209)-575-6388.

**Athletics**

Modesto Junior College is a member of the Central Valley Conference for both men’s and women’s sports. The men compete in baseball, basketball, cross country, football, golf, soccer, swimming, tennis, track and field, water polo and wrestling. Women compete in basketball, cross country, soccer, softball, swimming, track and field, tennis, volleyball, water polo and golf.

Other Central Valley Conference members are: West Hills College - Lemoore; Columbia College, Sonora; Fresno City College, Fresno; Reedley College, Reedley; Merced College, Merced; Porterville College, Porterville; College of Sequoias, Visalia; Taft College, Taft; and West Hills College, Coalinga. Since 1937, MJC has hosted an annual statewide basketball tournament in December. It is the oldest community college invitational basketball tournament in the state.

**Art Gallery**

Located within the Art Department on the East Campus across from Founder’s Hall, the Art Gallery is the college’s original exhibition space. Each year the Art Gallery presents an average of six exhibits representing a wide range of art styles, media, techniques and conceptual ideas. The exhibitors include emerging and more established artists from California and elsewhere, as well as annual exhibit events for MJC art students and the art faculty.

Students enrolled in Gallery Operation and Management (Art 150) assist in the gallery operations and learn techniques of gallery preparation and art installation for the various exhibits. Students involved in Work-Study programs may apply for positions as gallery sitters or docents.

**Forensics - Competitive Speech**

With a proud tradition of state champions, Modesto Junior College competes with other colleges and universities in forensics. Students participate in parliamentary debate and various individual events. The competition occurs in state, national and international arenas.

**Music**

Students from all areas are welcomed to participate in MJC’s active performance program. Instrumental performance opportunities include Guitar Orchestra, Community Orchestra, Symphonic Band, Community Concert Band, Jazz Bands and Pep Band, plus brass, percussion, woodwind, and string ensembles.

Vocal performance opportunities include Masterworks Chorus, small vocal ensembles, Musical Theatre, and vocal jazz/pop ensembles.

Elementary, intermediate and advanced piano, organ, guitar, instrumental, and voice are classes available to both music majors and non-music majors.

The music theory and musicianship programs are among the strongest in the area. Students wishing to transfer as music majors to a four-year institution are strongly encouraged to enroll.

**The MJC Track and Field Team travels around the state to compete in various events.**

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**MJC’s Departments of Music and Theatre regularly collaborate to produce a major musical. The 2005 production of Fiddler on the Roof drew record audiences to a moving production performed and produced by numerous MJC students.**
Theatre

Four to five productions make up the performance season for MJC theatre. Shows are produced in the 946-seat auditorium, the 94-seat Little Theatre, and the black box theatre, Cabaret West. A show is usually produced during the summer session. Students are active in all aspects of the theatrical arts with academic credit available in acting, lighting, costuming, and scenic techniques.

Radio - TV - Film

MJC students operate an online radio station, MJC Radio, as part of a professionally oriented program. Each student programs his/her own radio hour each week. MJC Radio can be heard campus wide and is also picked up over the local cable system and online. Many former student DJs have gone on to professional radio work on the West Coast, from Seattle to Los Angeles.

Television and film students produce a variety of work which may air on local cable television and is ready for submission into film festival competitions. Students will learn to produce, direct, act as talent, shoot and edit film projects and television programs. In addition, qualified students can secure internships with the MJC TV-FILM production company or with local-regional television stations and production companies. The MJC television and film facilities include a 3-camera television studio and control room, along with cameras and editing equipment to produce professional caliber projects. Film students produce a variety of work, which is aired on cable and online.

Pirates’ Log

The Pirates’ Log is MJC’s award-winning campus newspaper, a biweekly publication written, edited and produced by students enrolled in journalism classes. In recent years, Pirates’ Log staffers have won over 20 writing and layout awards, competing with other student journalists from around the state. The local media has picked up stories “broken” in the Log. Working on the Log provides an invaluable opportunity to experience the rhythms, challenges, pressures and rewards of newspaper journalism, to build a portfolio of published stories or photographs, to gain work experience and form lasting friendships. The editorship of the Pirates Log is now a paid Work-Study position for qualified applicants. Many former Log writers and editors are found today in the ranks of local media professionals. Participation is open to any student enrolled in Journalism 146 (photographers) or 120 (writers) who has passed Journalism 100.

Quercus Review

Established in 1999, Quercus Review has quickly become a prominent literary arts journal, publishing numerous nationally recognized, award-winning authors and artists from around the world. Published annually in the spring, each issue is edited by experienced MJC poetry students. In addition, Quercus Review Press publishes one book of poetry per year by an individual author through its contest publications. Information is available at www.quercusreview.com.

Student Arts Competition: The Celebration of the Humanities

The Arts, Humanities and Communications Division and the Literature and Language Arts Division sponsor an annual campus-wide student competition in eight major categories: Visual Arts, Photography, Theater, Writing, Speech, Dance, Music, Film/Video. MJC students registered in the current summer, fall or spring term can enter to win awards and cash prizes. Visit www.mjc.edu/celebration for details.

‘Hands-on’ instruction is an important component within all Agriculture majors. The Agriculture Department maintains animal production units on the MJC West Campus for use in Animal Science and Agriculture Business instruction. Agriculture student interns play a major role in managing these learning laboratories.
The Office of Instruction at Modesto Junior College provides an array of services to students and the college overall. Students may visit the office to request review of Petition Appeals, or find out information about Study Abroad programs. The Office of Instruction also stores and monitors all course outlines, educational program requirements, and the implementation thereof, in addition to producing the College Catalog and Schedule of Classes. College-to-college course articulation is also managed through the Office of Instruction.

Library

EAST CAMPUS: Library Building
Phone: (209) 575-6230
FAX: (209) 575-6669
Hours:
M-Th 8:00 AM - 9:00 PM
9:00 AM - 5:00 PM
Sat 7:30 AM - 5:30 PM
Summer Hours: M-W F & S
8:00 AM - 5:00 PM
Closed

WEST CAMPUS: Yosemite Hall A 235
Phone: (209) 575-7761
FAX: (209) 575-7796
Hours:
M-F 8:00 AM - 5:00 PM
Closed

Library and information services are located on both the East and West Campuses and can also be accessed through the MJC Library web page. The Library staff welcome questions and are happy to help users access and use the many library resources available to them.
The Library’s collection includes books, magazines, newspapers, journals, videos, and a variety of online research databases. MJC students have access to Columbia College Library materials via the Library’s intercampus loan service, and students can obtain research materials from non-YCCD libraries using the Library’s interlibrary loan service.

Campus library services include individual reference and information services, instruction on library research methods, self-guided library instruction, computer labs, copy machines, study space for individuals and groups, and course reserves. Off-campus use of library resources is facilitated by the Library’s web page. Passwords for off-campus access to the Library’s online databases are available, and users can submit reference questions from remote locations by using the “Ask A Librarian” feature.

All students, faculty, and staff have full library privileges. MJC Alumni, Library Friends, and the local community may obtain library cards for borrowing MJC Library materials.

LIBRARY INSTRUCTION

Learning Resources offers a variety of learning opportunities to support the information competencies applicable to college-level research and lifelong learning. Students can participate in curriculum specific instructional sessions arranged by their instructors, or enroll in formal Library Research courses emphasizing skills that can be used in many research and information applications.

Distance Education

TELE COURSES/DIRECT BROADCAST COURSES

EAST CAMPUS: Library, Room 120
Phone: (209) 575-6236
FAX: (209) 575-6669
Hours: M-F 8:00 AM – 4:30 PM S CLOSED
Summer Hours: M-W 7:30 AM – 5:30 PM Th 7:30 AM – 4:00 PM F CLOSED

The Telecourse Office, located on the East Campus, Library 120, assists students with MJC telecourses. A drop-box is located just outside the office door for students who need to turn in assignments.

Telecourse classes are listed in the MJC Schedule of Classes each semester. Several telecourses are available for viewing on Charter Cable and/or Comcast Cable; however, most telecourses need to be watched by either checking out video tapes from MJC Media Services, Classroom Annex 102; watching the tapes in the MJC Library Reserve Area; or by viewing them over high-speed Internet at http://mjc.edu/mjcvideo. On-campus meetings are usually required, but most assignments can be done at home or elsewhere. For more information, view the orientation videotape in the MJC Library, contact the Telecourse Office, or check the most recent Schedule of Classes for MJC.

ONLINE/TELEWEB COURSES

Online learning at MJC is a quality alternative to "traditional" classes. No distinction is made between the requirements and expectations for traditionally taught courses and online courses. This means that the content and outcomes of online courses are the same as those taught in the on-campus classroom. It is the flexibility of time and convenience that appeals to online students.

Online courses require a self-disciplined student - one who is an "active learner". Courses require participation through frequent online communication with instructors and other students. These courses are best suited for those who can manage time and take responsibility for their education. The student enrolled in an online class should have a basic understanding of the Internet World Wide Web and electronic mail.

Online students must have access to the Internet at home and/or in their place of employment. Additionally, they must use web-browsing software such as Microsoft Internet Explorer or Netscape. If necessary, students may gain access to the Internet and MJC online courses via one of many MJC open computer labs during regular lab hours. Locations of these labs, and their hours, are posted on the MJC learning online web site. ( Certain classes have specific software and course requirements; check the web site for further information.) For additional information on all MJC learning online courses, requirements, lab locations, etc., point your Internet browser to http://mjc.edu/online.htm

Research and Information Courses

The world of information changes rapidly. Learning Resources courses emphasize skills that can be used in many research and information applications. There are self-guided "tours" of basic research databases such as OPUS, the library computer catalog, and other electronic resources.

Academic Computer Labs

There are three open computer labs to support student computing; all three labs have general programs for word processing, spread sheets, or databases. Many also have course related programs for math, computer programming, or ESL. All labs have Internet access; and through it, students can use the MJC course catalog, the Library on-line catalog (OPUS), Academic Index, InfoTrac and other databases found on the MJC Web page. The open labs are available to any MJC student.

The college also has specialized computer labs associated with instructional divisions such as agriculture, computer graphics, ESL, and engineering. These labs may have scheduling periods when any student can use them. Check with the division or lab supervisor for available hours.

The three open labs are listed below. Because the labs are updated frequently, check ahead of time if you need to use a specific software program.
Support for Learning

East Campus Library Open Computer Lab: Located in Room 116 of the MJC Library, this lab has Windows computers. The lab is open Monday through Thursday from 8:00 A.M. - 9:00 P.M.; Friday, 8:00 A.M. - 5:00 P.M.; Saturday, 9:00 A.M. - 5:00 P.M., with special hours during Summer session. Student aides are available to answer questions.

West Campus Library Open Computer Lab: This is the only open lab on the West Campus. Located in the West Campus Library, Yosemite 235, the lab is open Monday-Friday, 8:00 A.M. to 5:00 P.M. Closed during Summer session.

STaR Lab: This lab is located in Room 124, Founders Hall. The lab has 30 computers and laser printers. The hours are Monday through Thursday from 7:30 a.m. to 8:30 P.M. and Friday from 7:30 a.m. to 4:30 P.M.

Tutoring Center

Martha Robles
Director

SUPPORT STAFF
Kimberly Carter, Program Representative
Donna Yarnal, Secretary

EAST CAMPUS: Library Basement, Room 10
Phone: (209) 575-6839
Hours: M-F 8:00 A.M. - 5:00 P.M.

WEST CAMPUS: Yosemite Hall, Room 118
Phone: (209) 575-7731
Hours: M-F 8:00 A.M. - 5:00 P.M.

The Tutoring Center is a free service for MJC students who need extra help with academic work, no matter what the subject or class. Tutors are experienced learners, and will be happy to provide students with the kind of help and support they need. Tutors will assist students who are preparing for specific examinations, as well as those who wish to strengthen their overall study skills. Students who seek help at the Tutoring Center often improve their overall academic performance by learning to study more efficiently.

Early College Programs

WEST CAMPUS: Sierra Hall, Room 254
Phone: (209) 575-6475 or 575-7885
Hours: M-F 8:00 A.M. - 5:00 P.M.
Summer Hours: M-Th 7:30 A.M. - 5:30 P.M. F CLOSED

Early College at MJC works with teachers, counselors, principals, parents and students to help motivated high school students “jump-start” careers and college by enrolling in appropriate college courses while still in high school. Students may compress the time necessary to completing a college degree and count units to enhance registration priority when enrolling at MJC after high school.

There are special procedures to follow: (1) For students attending regular high schools, students work with their high school counselors to determine eligibility for advanced admission (readiness for academic or vocational college-level course, 3.0+ GPA, or special recommendation by high school principal or designee); (2) For students attending one of the Early College High Schools on or near the MJC campus, there are opportunities for students to earn college credits towards certificates, Associate degrees or transfer preparation while also completing their high school diploma; (3) In after-school or summer special interest programs, high school students gain important academic, recreational, and/or work readiness skills while earning college credits.

Book Loan Programs

A variety of book loan programs are available to assist eligible students with the purchase of textbooks each semester. Eligibility guidelines include minimum GPA and unit requirements, income level, and major. Students borrow books for the semester and are required to return them at the end of the semester for future student use. Funds are limited, so students should apply early. For more information contact the Office of Student Success Tutoring Center at (209) 575-6401.

Students enrolled in vocational programs may be eligible for textbook loans to help defray some educational expenses.
Learning Communities

Learning Communities are unique learning programs that allow you to take courses with a community of people who share your goals and interests. Learning Communities are clusters or pairs of courses that revolve around a theme or major, and you enroll in them as a package. Because other students are doing this as well, you will support each other in all of the courses. You’ll learn to make critical connections between subjects and courses, and gain critical thinking skills that will be of great value to you in this and future learning endeavors. Your instructors will work together to highlight connections between the different subjects you are studying. This unique approach to learning will not only provide you with valuable skills in the classroom, it will give you a chance to take charge of the way you learn.

MJC has basic skills, transfer-level, and major-specific learning communities. To receive a brochure or find out more about Learning Communities at MJC, call the Program Coordinator at the number above.

Math Drop-in Center

**EAST CAMPUS:** Founders Hall, Room 128C  
Phone: (209) 575-6662

Hours: M-F 8:00 AM – 5:00 PM  
Summer Hours: M-Th 10:00 AM - 4:00 PM F CLOSED

**WEST CAMPUS:** Sierra Hall, Room 221  
Phone: (209) 575-7845

Hours: M-Th 8:00 AM – 5:00 PM F 8:00 AM – 12:00 PM  
Summer Hours: ARRANGED

At the Math Drop-In Center, math assistants are available to help understand your math homework, as well as aid you in understanding math concepts. This is the place where you can bring your short, quick questions, and get prompt responses. The goal of the Drop-In Center is to help you get your homework finished as quickly and accurately as possible.

Center for Learning Assistance (CLA)

**EAST CAMPUS:** Founders Hall, 105  
Phone: (209) 575-6475 or (209) 575-6799

**WEST CAMPUS:** Sierra Hall, 214  
Phone: (209) 575-7847

The CLA is a computer learning center which offers self-paced, computer-based courses for students who want to work to improve their English grammar, sentence and paragraph writing abilities, reading comprehension, and ESL skills. CLA courses include PLATO modules or other computer-based modules, and a scheduled weekly study group for students to discuss course exercises and ask questions.

Many CLA courses are paired with basic skills learning community courses to review and reinforce what students are studying in their learning community courses. Call the CLA for more information about CLA courses or to receive a CLA brochure.

Writing Center

**EAST CAMPUS:** Founders, Room 224  
Phone: (209) 575-6682

Assistance by Appointment  
Hours: M-Th 8:00 AM – 5:00 PM F 8:00 AM – 12:00 PM  
Summer Hours: M-Th 9:00 AM - 1:00 PM F CLOSED

**WEST CAMPUS:** Sierra Hall, Room 214 (209) 575-7847  
Hours: M-Th 8:00 AM – 5:00 PM F 8:00 AM – 5:00 PM  
Summer Hours: CLOSED

At the Writing Center, you can get the support you need to improve your writing skills. Tutors will work with you on any writing-related tasks to help you understand your assignment, gather ideas, focus on the topic, and organize the paper.

Bookstore

**EAST CAMPUS:** Student Center  
Phone: (209) 575-6840  
(209) 575-6769 (Computer Department)  
(209) 575-6940 (catalogs and schedules)  
FAX: (209) 575-6851

Email: bookstore.yosemite.cc.ca.us  
Hours: M-Th 7:30 AM – 6:00 PM F 7:30 AM – 3:00 PM  
Summer Hours: M-Th 7:30 AM – 5:30 PM F CLOSED

**WEST CAMPUS:** John Muir, 154  
Phone: (209) 575-6966  
Hours: M-Th 7:30 AM – 4:00 PM F 7:30 AM – 3:00 PM  
Summer Hours: CLOSED

The bookstore carries textbooks and course materials. Also available are school and office supplies, general books, MJC collegiate fashions, gifts, greeting cards, newspapers, candy, jewelry and calculators. We also offer computer software at educational and discount prices. The Artists’ Cove section of the bookstore carries a wide variety of artists’ materials and supplies. The West Campus bookstore also carries textbooks for classes on the West Campus, as well as school supplies, snacks, and general books. MJC catalogs and class schedules may be obtained through the bookstore and can be mailed prepaid.

Bookstore hours are extended during the beginning of each semester. Visit us at our website: bookstore.yosemite.cc.ca.us.
Support for Learning

Business Services Offices

**EAST CAMPUS**

**Student Center**

Regular hours: M-Th 8:00 a.m. - 5:00 p.m.
F 8:00 a.m. - 12:00 p.m.
Summer Hours: M-Th 7:30 a.m. - 5:30 p.m.

**WEST CAMPUS**

**John Muir Hall 154F**

Regular hours: M-Th 8:00 a.m. - 11:30 p.m.
12:00 p.m. - 4:00 p.m.
F 8:00 a.m. - 12:00 p.m.
Summer hours: (May 2 - August 22) CLOSED

The Business Services Offices located on both campuses serve as fiscal focal points for all businesses and fund generating endeavors. Both provide check cashing services for students and staff. Business Services Office offers extended hours during the first 2 weeks of the Fall and Spring semesters.

Food Services

**EAST CAMPUS CAFETERIA**

**Student Center**

Regular hours: M-Th 7:30 a.m. - 4:00 p.m.
F 7:30 a.m. - 2:00 p.m.
Summer Hours: M-Th 7:30 a.m. - 2:00 p.m.
Vending machines available in the Student Center.

**WEST CAMPUS CAFETERIA**

**Mary Stuart Rogers Learning Center**

Regular hours: M-Th 7:30 a.m. - 3:00 p.m.
F CLOSED
Summer Hours Vary
Vending machines available.

**WEST CAMPUS CONVENIENCE STORE**

**Mary Stuart Rogers Learning Center**

Regular hours: M-Th 8:30 a.m. - 5:00 p.m.
F 7:30 a.m. - 1:00 p.m.

MJ C Event Sales

**EAST CAMPUS**

**Sporting Events:** Ticket sales begin one to two hours prior to game time
**Mary Stuart Rogers Learning Center, Music Recital Hall, and Dance Studio**

Theatre Events: Tu-F 1:00 p.m. - 5:00 p.m. (one week prior)
90 minutes prior to curtain on event nights.
Closes 30 minutes after curtain.
Ticket Sales:(209) 575-6776

Event Sales handles ticket printing, sales, staffing and accounting of most college-sponsored ticketed events. Events include football, basketball, recitals, theatre, music, dance, speech communication, and YCCD Beyond Tolerance special events. Box office facilities managed by MJ C Event Sales include the Stadium, Gymnasium, Mainstage Auditorium, Little Theatre, Music Recital Hall, Mary Stuart Rogers Learning Center and Dance Studio. Event Ticket Sales is open at sporting locations one to two hours prior to “game time” and is open for every major theatre production from 1 p.m. to 5 p.m. Tuesday - Friday, beginning 1 week prior to “opening night” and at times convenient to other events. Box office sales at theatre events also begin 90 minutes prior to “curtain time” and close 30 minutes after the performance begins.

A complete list of all MJ C current events is listed on the Calendar of Events at www.mjc.edu/news/MJCCalendarofEvents.pdf and a list of upcoming Arts Division events is at virtual.yosemite.cc.ca.us/adbo.

Facilities

**EAST CAMPUS:** Morris Building, Mailroom

Regular hours: M-F 7:00 a.m. -4:00 p.m.
Summer Hours: M-Th 6:30 a.m. - 4:30 p.m. F CLOSED

The college is a center for community functions of various kinds. College facilities are available for use by recognized community groups when such use does not interfere with the regular educational program.

Media Services

Media Services provides the college with various instructional and technical services. These services include media classroom support, classroom computer operations, repair and maintenance functions, video and photographic productions, graphic arts, media/equipment distribution services and distance learning facilities.

Technology Services

Technology Services provides desktop computer support to staff and students campus-wide. This support includes setup of desktop computers in computer labs and offices, equipment repairs and installs, and in-service training on various software programs.
**Associate Degrees**

Modesto Junior College offers the Associate of Arts and Associate of Science degrees. The Associate of Arts is available in a wide variety of academic and vocational areas. The Associate of Science is offered in the following disciplines: Administration of Justice, Agriculture, Allied Health, Business, Engineering, Home Economics, Nursing, Physical Sciences, and Trade and Technical Education.

**Philosophy of the Degrees**

The awarding of an Associate degree represents more than an accumulation of units. It symbolizes the successful attempt on the part of the student to develop certain abilities and insights by following patterns of learning designed by the college. It is expected that courses used in satisfying the requirements will demand effective study and active involvement on the part of the student and that significant change and growth will result from that study and involvement.

The holder of the Associate degree will demonstrate college-level skills in reading, writing, and mathematics. In addition to these skills, the student will develop a greater ability to understand the modes of inquiry and expression of the major disciplines in the areas of natural science, social and behavioral sciences, the humanities, English composition, and communication and analytical thinking. Finally, the graduate will evaluate educational opportunities, identify personal goals, explore areas of involvement within the campus community, and develop an understanding of the integrated physiological and psychological human being.

Central to an Associate degree, these general education requirements are designed to introduce students to the variety of means through which people perceive, describe, and interact with the modern world. Those who earn degrees will be better prepared to address ethical and social problems and to evaluate and appreciate the physical environment, the culture, and the society in which they live.

By completing the requirements of a major, the degree-holder will gain sufficient depth in one field of knowledge to form a basis for more advanced study, to fulfill an occupational objective, or to pursue other lifetime interests.

**Certificates of Achievement**

Students who complete requirements in certain technical and academic programs in Agriculture, Allied Health, Business, Child Development, English, Fire Science, Nursing, and Trade and Technical Education may earn Certificates of Achievement.

Certificates are awarded in recognition of completion of requirements specified in each area. Interested students should consult division advisors.
Application Process for Degrees and Certificates

Students must file an application for a degree or certificate in the Evaluations Office, Morris Memorial 205, after registering for the semester in which they are completing the requirements. Requirements may be completed during any semester or summer session. Diplomas and certificates are printed approximately 6 weeks after the term ends. The graduation ceremony will take place in April.

International Education

Modesto Junior College students enjoy the opportunity to pursue their studies at a number of international locations. Regularly scheduled semester long programs take place in London, Paris, and Florence, Italy. Courses offered at each of these locales meet General Education Transfer Pattern and graduation requirements, so while spending a semester in an international setting, progress continues toward completing major educational goals.

Summer programs are offered in settings such as Spain or Mexico. These locales permit students to make rapid progress in the study of Spanish and Latin American culture.

Students in the full semester programs are required to complete 12 units while the summer students earn 6-7 units of credit. For information, contact the Instruction Office at (209) 575-6058.

Independent Study and Special Problems

Modesto Junior College offers the traditional types of independent study course (numbered 199, 299 or 399). Independent study is supervised study, projects, or laboratory practice in any area sufficiently specific to permit the student to report or demonstrate its value beyond that possible to achieve within the standard curriculum. The unit value may range from 1 to 6, and a student may repeat an independent study course in a specific discipline to a maximum of 6 units. Field trips may be required.

Interested students should contact an instructor or division dean for more information.

The transfer student should consider the policy of the four-year college or university regarding the number of independent study units which may be earned each semester. (CSU) (UC-granting credit for courses in this category contingent upon a review of the course outline.)

Liberal Studies

Modesto Junior College does not offer an Associate degree in Teaching or Liberal Studies; however, students who plan to go into teaching careers can complete general education and many preparation courses at MJC prior to transfer to four-year universities and teaching credential programs. Students are encouraged to consult with an MJC counselor and check www.assist.org prior to selecting courses since each four-year institution has unique admission and teacher preparation requirements.

Special Topics and Problems

Courses dealing with special topics and problems are offered with the course number of 198, 298 or 398. Each discipline may offer a special topic or problem course. The course title in the schedule of classes will identify the topic. Such courses allow participation in discussion, analysis and evaluation of a special topic or problem in a specific area of study. Topics are announced each semester in the schedule of classes. The courses are variable in hours per week and number of weeks according to the topic. The unit value may be ½, 1, 2, or 3. The course may be repeated. Field trips may be required. (CSU and UC grant credit for courses in this category contingent upon a review of the course outline.)
Planning Your Education

Make educational choices to support your goals.
Planning Your Education

Make educational choices to support your goals.

What do you want to do at MJC?

☐ Improve basic skills in reading, writing, and math
☐ Gain skills for job placement or advancement
☐ Earn an Associate degree in a specialized field of study
☐ Transfer to a four-year college or university to further your education

Which path is right for you?

1. Improve Basic Skills

Basic skills courses will help you to improve skills in reading, math, writing, and English, to prepare you for further coursework in college. If you feel that you are in need of basic skills courses, meet with a counselor who can help you identify which courses are best for your skills level and complete the MJC Assessment tests in reading, English, and math for appropriate course placement.

2. Prepare for Job Placement or Advancement

If you are hoping to apply skills and knowledge to the job market once you have finished at MJC, you have two choices. You may choose to earn a Certificate of Achievement, or an Associate degree in a specialized field of study, or major. Certificates of Achievement are a way to gain targeted skills for a job quickly. Most Associate degrees majors at MJC are also applicable to the local job market, in that your General Education experience will be valuable to prospective employers who need your critical thinking skills. In addition, the General Education component of the Associate degree will be finished and may be applicable toward a Bachelor's degree in the future. Regardless of your job placement goals, you will want to meet with a counselor to plan accordingly.

3. Earn an Associate degree

MJC offers Associate degrees in numerous subject areas. If you’ve decided that you want to earn an Associate degree, meet with a counselor to ensure that your courses are appropriate for your short and long-term goals. Associate degree holders have the option to progress to bachelor’s degree programs, but not all courses for Associate degree are applicable to the bachelor’s degree. Depending on the major you choose from those available in the catalog, you and your counselor will select courses from the MJC-GE pattern to fulfill the General Education requirement, and choose a major that aligns with your short and long term goals.

4. Earn an Associate degree and Transfer to a four-year school

MJC has an outstanding means through which you can earn an Associate degree while completing coursework that applies toward a bachelor’s degree. Transfer students complete one of two transferable General Education patterns; CSU-GE (California State University General Education) (p.66) and IGETC (Intersegmental General Education Transfer Curriculum) (p.68). Meet with a counselor to determine which pattern is right for your goals.

Why are you attending MJC?

We all have unique interests and goals. You may be attending Modesto Junior College for any number of reasons. MJC offers courses in an array of disciplines that can prepare you for skilled trades, specialized careers, job advancement, and transfer to major four-year colleges or universities to further your education. Your goals should have a direct influence on the courses and programs you choose to complete while at MJC. It is important to keep your goals in mind at all times when selecting classes and programs and to remain informed about requirements specific to your goals.

Planning is Critical

You may already know what you want to accomplish while enrolled at MJC, or you may be trying to explore your options and may be unsure of what is necessary to reach your goals. MJC offers Guidance classes which are designed specifically to help you identify your goals and to plan accordingly. Guidance classes are taught by MJC counselors who are informed about education and career options that await successful MJC students. The purpose of Guidance courses is to assist you in reaching your goals as quickly as possible.

Proof of Your Success

Regardless of what you choose to accomplish at MJC, you can take proof of your hard work with you in an award. MJC offers two distinct types of awards showing educational achievement. If you are hoping to apply skills and knowledge to the job market once you have finished at MJC, having proof of your accomplishments can be an asset. Certificates of Achievement show that you have successfully completed one or more courses in a targeted career or skills area. Associate degrees are awards that are broader in scope than certificates, because—in addition to concentrated study in a specific skill or knowledge area—they require coursework in an array of disciplines to broaden your learning experience and strengthen your critical thinking skills. This is referred to as General Education. As an Associate degree candidate, you will complete one of three General Education patterns. See a counselor to help determine which pattern you should follow.
Which educational award is right for you?

Use this chart to get a better sense of what is needed to help you meet your unique goals. Choose the type of award you wish to earn. This sheet is not intended to be used in place of a one-on-one counseling session. See page 63 for a list of all awards offered at MJC.

Take a Certificate to work
Browse the catalog and find the Certificate Of Achievement that best suits your career goals. Meet with a counselor to set up your educational plan. You may also want to talk to a faculty advisor to learn more about career opportunities and prospective employers.

Take an Associate degree to work
Make an appointment with a counselor or enroll in a Guidance class. Be sure to review the MJC Associate degree Requirements (p. 58): Occupational and Technical Studies plan and the MJC-GE Pattern (p. 65) for Associate degree. Browse the catalog and identify which of the many Associate degree majors might interest you.

Earn an Associate degree
Do you want to transfer to a four-year school or go into the workplace upon completion of your Associate degree? Check out the options below to get an overview of what is required for either educational path.

Transfer to a four-year school
Make an appointment with a counselor or enroll in a Guidance class. In the meantime, review the MJC Associate degree Requirements (p. 58): Transfer Studies plans. Review the two Transfer Patterns (pp. 66-69) to get a sense of what courses you may need to support your educational goals. You will not need to choose a major from the catalog. Transfer Studies will be your major.
Successfully complete the following five steps to earn an Associate degree from Modesto Junior College. Enroll in a Guidance class or meet with a counselor to ensure that you complete each step accurately and efficiently. The following steps represent the minimum requirements to earn a degree.

1. **Complete 60 units in courses numbered 50 or higher**, the last 12 of which must be completed “in-residence” at MJC.

2. **Earn an overall GPA of 2.0 or higher** (C average) based on all work attempted in college courses numbered 50 or higher.

3. **Demonstrate competence in reading, written expression, and mathematics.**
   - **READING:** Meet one of the following requirements:
     - Completion of the applicable General Education pattern (MJC-GE, CSU-GE, and/or IGETC) with a C average or better (2.0).
     - Completion of READ 184 with a C or better.
   - **WRITTEN EXPRESSION:** Meet one of the following requirements:
     - English 101 eligibility on the English assessment.
     - Completion of ENGL 101 with a C or better, or equivalent.
     - Completion of ENGL 50 with a C or better, or equivalent.
     - Score of 3, 4, or 5 on AP Exam: Language & Composition OR Literature & Composition.
   - **MATHEMATICS:** Meet one of the following requirements:
     - Achieve MATH 90 eligibility on the math assessment.
     - Score of 3, 4 or 5 on AP Exam: Calculus AB OR Calculus BC OR Statistics.
     - Complete one of the following, or an equivalent course or courses, with a grade of C or higher:
       - MATH 50
       - MATH 70
       - MATH 90 or higher level math course
       - MATH 71 and 72
       - AG 280

4. **Choose and complete the study plan that correlates to your short and long term goals.**
   - **Occupational & Technical Studies Plan** page 59
   - **Transfer Studies Plan** page 60
   - **Central Valley Guaranteed Transfer Plan** page 61

5. **File an application for Associate degree.**
   - The Associate in Arts Degree (AA) and the Associate in Science Degree (AS) are not automatically awarded when the student completes the requirements. Students must file an application for Associate degree in the Evaluations Office, Morris Memorial Building, Room 205, after registering for the semester in which they are completing the requirements. Requirements may be completed during any semester or summer session. The graduation ceremony will be held only at the end of the spring semester.
What is the Occupational & Technical Studies Plan?

If you are confident that you can benefit from an Associate degree in a skilled trade, occupation, or subject, you may consider the Occupational & Technical Studies Plan. This educational plan is geared to help you move swiftly through General Education requirements for an Associate degree, and to spend considerable time studying in the subject(s) that matter most to you. Therefore, upon completion of your degree, you will not only have completed the General Education component, you will have considerable knowledge and skills in a specific area of study. This plan is most beneficial for individuals who would like to explore career opportunities upon earning their Associate degrees, and who have no plans to earn a Bachelor’s degree.

Choosing Courses

Course numbers can tell you a great deal about the type of course you are completing. Courses numbered 50 or higher will apply toward your Associate degree if you are completing the Occupational and Technical Studies Plan. The MJC-GE pattern includes courses numbered 50 and higher, whereas the Transfer General Education patterns only include courses numbered 100 to 299 for the purposes of transfer.

What units are required?

<table>
<thead>
<tr>
<th>Component</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guidance</td>
<td>½ - 3</td>
</tr>
<tr>
<td>Activities</td>
<td>2</td>
</tr>
<tr>
<td>General Education (MJC-GE)</td>
<td>18-19</td>
</tr>
<tr>
<td>MAJOR OR AS Major</td>
<td>20-31</td>
</tr>
<tr>
<td>Electives</td>
<td>5-19½</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

Types of Associate degrees

The Occupational & Technical Studies Plan is unique in that it offers two types of Associate degrees: Associate of Science (AS) and Associate of Arts (AA). The AS degree requires more coursework in the major (minimum 30 units) and fewer electives to total 60 units for Associate degree. The AA degree requires a minimum of 20 units in the major, and therefore allows you to complete more electives outside the major for the degree.

Is a Bachelor’s Degree in Your Future?

If you think that you may want to pursue a Bachelor’s degree at any point in the future, be sure to meet with a counselor to evaluate your goals. Not all courses completed for the Occupational & Technical Studies Plan will transfer to a Bachelor’s degree-granting institution.

Complete Steps 1-4 of the MJC Associate Degree Requirements (p. 58)

Complete the MJC Guidance and Activities Requirements (p. 64)

Fulfill the GENERAL EDUCATION requirement by completing the MJC-GE Pattern (p. 62).

Choose a MAJOR from those listed in the catalog in which to earn your degree:

- **Associate in Arts Degree** (AA) (20-24 Units in the major): Complete requirements for any AA Major listed in the MJC Catalog†. Your AA degree will be in that major.

- **Associate in Science Degree** (AS) (30 units in the major): Complete requirements for any AS Major listed in the MJC Catalog†. Your AS degree will be in that major.

For successful completion of the major:

⭐ Earn a C or better in every REQUIRED COURSE
⭐ Complete enough units of ELECTIVE COURSEWORK with a C or better to fulfill the required number of elective units for the major

Complete Step 5 of the MJC Associate Degree Requirements by applying for your degree.

†Courses in the student’s major or General Education requirement list may count in both areas except for the General College Major. Only one degree (AA or AS) can be awarded in the same major.
What is the Transfer Studies Plan?

If you have chosen to attend MJC with the intent of completing coursework that can apply toward a Bachelor’s degree, the Transfer Studies Plan provides a clear path toward that goal. By following the Transfer Studies Plan, you complete coursework that is not only applicable to an Associate degree at MJC, but can also fulfill lower-division requirements for your Bachelor’s degree at UC and CSU, and some other schools in California.

Transferable Courses

Transfer courses are those MJC courses that transfer to the institution with you. For CSU, all courses numbered 100-299 are considered transferable, while UC accepts some 100-299 courses. For more information on transferring and which MJC courses are UC or CSU transferable, meet with an MJC counselor or visit www.assist.org. CSU and UC will accept a maximum of 70 transferable units completed prior to transfer.

General Education Transfer Patterns

MJC has entered into agreement with California State University (CSU), the University of California (UC), and other schools to create two General Education Transfer Patterns (CSU-GE and IGETC) that allow you to complete most, if not all “lower-division” General Education requirements for the Bachelor’s degree while at MJC. Transfer patterns are lists of educational requirements and course options within those requirements that have been approved as transferable and can fulfill lower-division General Education requirements at the target school.

Both patterns fulfill the MJC General Education requirement for an Associate degree. Please note that completion of the IGETC pattern is not preferred at all schools and majors within the UC system. For more information see IGETC Considerations on page 71 or refer to www.assist.org for the most current information. Meet with a counselor to help you choose the appropriate pattern and coursework for your target school.

Certification of General Education

When you request your transcripts after completing your Associate Degree, you will need to request that your transfer pattern coursework be certified by the Evaluations Office. MJC transcript Certification means that your transfer pattern coursework at MJC is officially recognized as fulfillment of the target institution’s corresponding General Education requirement(s) when all coursework is completed with a C or better. If you do not have your MJC coursework certified, you can be held accountable for the target institution’s different General Education requirements upon commencing your study at that institution. Please note that the IGETC pattern allows only the entire pattern to be certified, while the CSU-GE pattern can be certified by “area” or in entirety.

What units are required?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Guidance</td>
<td>½ - 3</td>
</tr>
<tr>
<td>Activities</td>
<td>2</td>
</tr>
<tr>
<td>General Education</td>
<td>34-45</td>
</tr>
<tr>
<td>Electives</td>
<td>+ 10-17½</td>
</tr>
<tr>
<td>Overall</td>
<td>60 Units</td>
</tr>
</tbody>
</table>

Complete Steps 1-4 of the MJC Associate Degree Requirements (p. 58). However, the 60 units for Associate degree must be completed in courses numbered 100-299 for transferability. For UC, consult www.assist.org for a list of UC-transferable MJC courses.

Complete the MJC Guidance and Activities Requirements (p.64).

Fulfill the GENERAL EDUCATION requirement for the school you plan to attend by successfully completing the appropriate General Education Transfer Pattern (with a C or better in each course) as indicated below. Your major will be an AA in Transfer Studies.

Transferring to California State University? Complete one of the following two patterns:

- CSU-GE Transfer Pattern (p.66)
- IGETC Transfer Pattern (follow CSU requirements) (p.68)

Transferring to the University of California? Complete one of the following:

- IGETC Transfer Pattern (p.68)
- Individual breadth pattern for the UC campus of your choice, or see a UC Catalog.

Complete Step 5 of the MJC Associate Degree Requirements by applying for your degree.
**What is the Guaranteed Transfer Plan?**

Like the Transfer Studies Plan, the Central Valley Guaranteed Transfer Plan is geared to aid you in completing coursework for your Bachelor’s degree while you fulfill requirements for Associate degree at MJC. However, the Guaranteed Transfer Plan can help you accomplish more if successfully completed.

Like the Transfer Studies Plan, you will earn an Associate of Arts in Transfer Studies. However, this version of the Transfer Studies degree includes modified requirements and specific overall GPA requirements. If these requirements are met, you are guaranteed transfer admission to a participating institution.

This guarantee applies to admission to the university overall, rather than to a specific program or major. Please note that this Associate degree is not recommended for Bachelor’s degree majors that require extensive lower-division preparation. Consult with a counselor to see if this plan is right for you.

**Guidance and the Guaranteed Transfer Plan**

In the Guaranteed Transfer Plan, you are not required to fulfill the MJC Guidance & Activities Requirements. Exercise this option with caution, however. If you aim to complete the Guaranteed Transfer Plan but are not successful in meeting the GPA requirement upon completing your coursework, you will be held accountable for the MJC Guidance and Activities Requirements upheld in the Transfer Studies Plan. Guidance courses are designed specifically to help you avoid making errors in educational planning for MJC and your target transfer institution.

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**Central Valley Guaranteed Transfer Plan**

- Complete Steps 1-4 of the MJC Associate degree Requirements (p. 58). However, the 60 units for Associate degree must be completed in courses numbered 100-299 for transferability. For UC Merced, consult www.assist.org for a list of UC-transferable MJC courses.

- Fulfill the GENERAL EDUCATION requirement for the school you plan to attend by successfully completing the appropriate General Education Transfer Pattern (with a C or better in each course) as indicated below. Your major will be an AA in Transfer Studies.
  - Transferring to CSU Bakersfield, Fresno, or Stanislaus? Complete one of the following two patterns:
    - CSU-GE Transfer Pattern (p.66)
    - IGETC Transfer Pattern. Follow requirements for CSU. (p. 68)
  - Transferring to UC Merced, Fresno Pacific, or University of the Pacific?
    - IGETC Transfer Pattern (p.68)

- Earn an overall GPA as required by the school to which you plan to transfer (see above).

- Complete Step 5 of the Associate degree Requirements by applying for your degree.

---

**What units are required?**

<table>
<thead>
<tr>
<th>Units</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-45</td>
<td>General Education</td>
</tr>
<tr>
<td>+ 15-26</td>
<td>Electives</td>
</tr>
<tr>
<td><strong>60</strong></td>
<td>Overall</td>
</tr>
</tbody>
</table>

---

**GPA and the Guaranteed Transfer Plan**

Your success in meeting the requirements for the Guaranteed Transfer Plan will be largely determined by your overall GPA upon completing the Associate degree requirements. Each participating transfer institution has established a minimum overall GPA that will be accepted to make you eligible for Guaranteed Transfer.

**Participating Institutions & GPA Requirements**

<table>
<thead>
<tr>
<th>Institution</th>
<th>GPA Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSU Bakersfield</td>
<td>2.4</td>
</tr>
<tr>
<td>Fresno Pacific University</td>
<td>2.8</td>
</tr>
<tr>
<td>CSU Fresno</td>
<td>2.4</td>
</tr>
<tr>
<td>UC Merced</td>
<td>2.8</td>
</tr>
<tr>
<td>CSU Stanislaus</td>
<td>2.4</td>
</tr>
<tr>
<td>UC Santa Barbara</td>
<td>2.8</td>
</tr>
<tr>
<td>UC Santa Cruz</td>
<td>2.8</td>
</tr>
<tr>
<td>CSU San Jose</td>
<td>2.8</td>
</tr>
</tbody>
</table>

**Guaranteed Transfer Plan versus Transfer Admission Agreements (TAAs)**

The Guaranteed Transfer Plan is not to be confused with institution-specific Transfer Admission Agreements (TAAs). Transfer Admission Agreements also guarantee your admission to other universities such as UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Barbara, UC Santa Cruz, and CSU San Jose; However, GPA and course requirements vary by campus and by major. Please check with the Transfer Center or the Counseling Department for additional information regarding Transfer Admission Agreements.

*Note:* This guarantee applies to admission to the university, rather than to a specific program or major. This Associate degree is not recommended for majors that require extensive lower-division preparation. Consult with your counselor or the Transfer Center.
# MJC Educational Plan

Use the MJC Educational Plan to strategize how you will reach your educational goals. To complete your plan, enroll in a Guidance class or schedule an appointment with an MJC Counselor. You and your counselor will select appropriate coursework to best prepare you for your unique goals.

NAME _________________________________________ STUDENT ID #_____________________________________

COUNSELOR/ADVISOR________________________________ DATE ____________________________

Visit www.assist.org for MJC transfer prep courses for UC & CSU.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Competency Requirements</th>
<th>MJC Associate Degree Requirements</th>
<th>Basic Skills Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Educational Objective**

- Occupational/Technical Studies A.A. or A.S. (nontransfer) Major
- Transfer A.A. Major
- Transfer college/univ.
- Basic Skill Acquisition
- Job Skills
- Exploration
- Certificate

**General Education**

- Met

**A.A./A.S. Non-Transfer**

**General Education**

- Met

**Area A (9)**

- A.1

- A.2

- A.3

**Area B (9)**

- B.1

- B.2

- B.3 Lab (*)w. B.1 or B.2

- B.4

**Area C (9)**

- C.1

- C.2

- C.1 or 2

**Area D (9 units, from areas 0-9)**

- D.

- D.

- D.

**Area E (3)**

- E.1

**Transfer prep for major:**

- U.S. Hist., Const. & Amer. Ideals (6)

**A.A. (CSU-GE)**

- A.A. IGETC (UC or CSU)

**Tentative Program**

<table>
<thead>
<tr>
<th>Term</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

- ______________________________________
- ______________________________________
- ______________________________________
- ______________________________________

Visit www.assist.org for MJC transfer prep courses for UC & CSU.
### Degrees and Certificates Awarded at MJC

#### Agriculture & Environmental Sciences
- Agricultural Business AS
- Agriculture-Sales, Service Technician AS, C
- Agricultural Laboratory Technician AS, C
- Agricultural Science AS
- Animal Science AS
- Artificial Insemination Technician C
- Commercial Floristry Technician C
- Crop Science AS
- Dairy Industry AS
- Dairy Industry Technician C
- Dairy Science AS
- Environmental Horticultural Science AS
- Food Processing AS, C
- Forestry AS, C
- Fruit Science AS
- Landscape and Park Maintenance C
- Landscape Arch/Conceptual Design C
- Mechanized Agriculture Technician AS, C
- Nursery Production C
- Poultry Science AS
- Recreational Land Management AS, C
- Soil Science AS
- Veterinary Technician C

#### Allied Health
- Dental Assisting AS, C
- Emergency Medical Technician C
- Medical Assisting AS, C
- Nursing Assistant (CNA) C
- Nursing, Associate degree (RN) AS
- Nursing, LVN Certificate Upgrade C
- Nursing, LVN Upgrade Program (LVN to RN) AS
- Respiratory Care AS

#### Arts, Humanities, & Communications
- Art AA
- Art Gallery/Museum Studies C
- Film C
- Journalism (Print) C
- Journalism AA
- Music AA
- Photography AA
- Radio Broadcasting AA, C
- Speech Communication AA, C
- Television Production AA, C
- Theatre AA
- Theatre, Design & Technical C
- Theatre Performance C

#### Behavioral & Social Sciences
- Administration of Justice AS, AA
- Behavioral and Social Sciences AA
- Chemical Dependency Counseling AA
- Ethnic Studies AS
- Human Services AA, C
- Supervisory Management in Public Safety C

#### Business
- Accounting AS, AA, C
- Accounting Clerk C
- Bookkeeping AS, AA, C
- Business Administration AS
- Business Operations/Management C
- Clerical AS, AA, C
- Computer Applications Specialist C
- Computer Graphics Applications AS, C
- Computer Information Systems AA
- Computer Programming Specialist C
- Computer Science AS, AA
- International Business C
- Marketing AS, AA
- Computer Network Administration C
- Computer Network Technician C
- Office Administration AS, AA, C
- Office Computer Applications C
- Office Support C
- Professional Selling C
- Real Estate AS, AA, C
- Records Mgmt/Data-Entry C
- Retail Management (WAF) C
- Supervisory Management C
- Word Processing C

#### Family & Consumer Sciences
- Child Development AS, AA
- Child Development Assistant C
- Child Development Associate Teacher C
- Child Development Teacher C
- Child Development Master Teacher C
- Child Development Site Supervisor C
- Child Dev. Early Intervention Assistant -1 C
- Child Dev. Early Intervention Assistant -2 C
- Culinary Arts AS, C
- Family and Consumer Sciences AS, AA
- Interior Design AS, AA, C

#### General College
- General College AA

#### Literature & Language
- English AA
- Foreign Language AA
- Shakespeare Academy C
- Spanish AA

#### Physical, Recreation, & Health Education
- Athletic Training/Sports Medicine AS
- Physical Education AA

#### Public Safety
- Fire Science AS, C
- Fire Science (Basic Fire Academy) C
- Law Enforcement Academy C

#### Science, Math, & Engineering
- Architectural Drafting Technology AS, C
- Architecture/Architectural Engineering AS
- City and Regional Planning AS
- Construction Management AS
- Engineering AS
- Engineering Drafting Technology AS
- Engineering Technology AS
- Landscape Architecture AS
- Physical Science AS

#### Technical Education
- Autobody/Collision Repair AA, C
- Autobody/Refrig/Heating AS, C
- Automotive Technician AS, C
- Building and Safety Code Administration AS, C
- Communication Graphics Applications AS, AA, C
- Construction - Carpenter C
- Construction - General C
- Electronics Tech.-Computer Electronics AS, AA, C
- Electronics Technician AS, C
- General Plant Maintenance AS, AA, C
- Graphic Design AS, AA, C
- Home Building Technologies AS, C
- Industrial Electronics AS, C
- Industrial Technology/Electrician AS, C
- Industrial Technology/Maintenance AS, C
- Industrial Technology/Systems AS, C
- Industrial Technology/Technology AS
- CNC Operator C
- CNC Programmer C
- Machine Tool Technology AS
- Machine Tool Technology 1 C
- Machine Tool Technology 2 AS, C
- Maintenance Electrician AS, AA
- Maintenance Machinist 1 C
- Maintenance Machinist 2 C
- Maintenance Mechanic C
- Prepress C
- Presses and Bindery C
- Printing Maintenance C
- Sheet Metal Fabricator C
- Sheet Metal Fabricator, (Fabrication Tech.) C
- Welding, Gas Metal Arc C
- Welding, Gas Tungsten Arc C
- Welding, Pipe C
- Welding, Shielded Metal Arc C
- Welding AS, AA, C

#### Transfer Studies
- Transfer Studies: CSU-GE AA
- Transfer Studies: IGETC AA

Students who plan to transfer do not choose a major in a specific subject area. Instead, they follow the appropriate General Education Transfer pattern to support their long term educational goals for a degree in Transfer Studies. Students who do this, major in “Transfer Studies.” Please see a counselor for more information.

---

**Meaning of Awards**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS</td>
<td>Associate of Science Degree</td>
</tr>
<tr>
<td>AA</td>
<td>Associate of Arts Degree</td>
</tr>
<tr>
<td>C</td>
<td>Certificate</td>
</tr>
</tbody>
</table>
Students who plan to earn an Associate degree will need to complete the MJC Guidance & Activities Requirements. By completing the Guidance Requirement, students will learn about MJC’s requirements for graduation, various educational and career options, resources at MJC, as well as prepare an Educational Plan to ensure that the courses taken at MJC are appropriate for their short and long-term goals. By completing the Activities Requirement, students will participate in courses that demonstrate creativity, collaboration, teamwork, and/or self-expression.

### I. Guidance Requirement: Complete one course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>Intro to Ag Education &amp; Careers (1) (F02)</td>
<td></td>
</tr>
<tr>
<td>ARCH 100</td>
<td>Intro to Engineering &amp; Arch. (1) (F02)</td>
<td></td>
</tr>
<tr>
<td>AURB 115</td>
<td>Intro Tech Industries (1)(F02)</td>
<td></td>
</tr>
<tr>
<td>AUTEC 115</td>
<td>Intro Tech Industries (1)(F02)</td>
<td></td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Intro to Engineering &amp; Arch. (1) (F02)</td>
<td></td>
</tr>
<tr>
<td>GUIDE 109</td>
<td>Orientation for Foreign Students (1)</td>
<td></td>
</tr>
<tr>
<td>GUIDE 110</td>
<td>Educational Planning (1/2)</td>
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</tr>
<tr>
<td>GUIDE 111</td>
<td>Career Awareness (1)</td>
<td></td>
</tr>
<tr>
<td>GUIDE 112</td>
<td>Job Development Skills (1/2)</td>
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</tr>
<tr>
<td>GUIDE 116</td>
<td>Orient for Re-Entry Adults (2)</td>
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<tr>
<td>INTEC 115</td>
<td>Intro Tech Industries (1)(F02)</td>
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<tr>
<td>NURSE 115</td>
<td>Guidance for Nursing Majors (1)(F02)</td>
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<tr>
<td>STSK 78</td>
<td>College Study Skills (3)(F02)</td>
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<tr>
<td>STSK 120</td>
<td>Success Strategies for Transfer (3)(F02)</td>
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</tr>
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</table>

### II. Activities Requirement: Complete two (2) units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>AG 100AB</td>
<td>Leadership in Agriculture (1-2)</td>
<td></td>
</tr>
<tr>
<td>ART 100/CMPGR 202</td>
<td>Intro to Computer Graphics (3)</td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>Ceramics 1 (3)</td>
<td></td>
</tr>
<tr>
<td>ART 109</td>
<td>Ceramics 2 (3)</td>
<td></td>
</tr>
<tr>
<td>ART 110</td>
<td>Ceramics 3 (3)</td>
<td></td>
</tr>
<tr>
<td>ART 120</td>
<td>Basic Drawing I (3)</td>
<td></td>
</tr>
<tr>
<td>ART 121</td>
<td>Basic Drawing II (3)</td>
<td></td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing I (3)</td>
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</tr>
<tr>
<td>ART 124</td>
<td>Color &amp; Design I (3)</td>
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</tr>
<tr>
<td>ART 125</td>
<td>Color &amp; Design II (3)</td>
<td></td>
</tr>
<tr>
<td>ART 140</td>
<td>Sculpture I (3)</td>
<td></td>
</tr>
<tr>
<td>ART 141</td>
<td>Sculpture II (3)</td>
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</tr>
<tr>
<td>ART 144</td>
<td>Watercolor Painting I (3)</td>
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</tr>
<tr>
<td>ART 145</td>
<td>Watercolor Painting II (3)</td>
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<tr>
<td>ART 146</td>
<td>Mixed Media Painting (3)</td>
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<tr>
<td>ART 147</td>
<td>Painting I (in Acrylic) (3) (F06)</td>
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<tr>
<td>ART 148</td>
<td>Painting II (in Oil)</td>
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<tr>
<td>ART 149</td>
<td>Painting III (3)</td>
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<tr>
<td>ART 150</td>
<td>Gallery Operation &amp; Management (3)</td>
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<tr>
<td>ART 170</td>
<td>Basic Photography (3)</td>
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</tr>
<tr>
<td>ART 173</td>
<td>Digital Imaging Photographers (3)(F02)</td>
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<tr>
<td>ART 175</td>
<td>Color Photography (3)</td>
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<tr>
<td>ART 181</td>
<td>Basic Photography I (1/2)</td>
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</tr>
<tr>
<td>ART 182</td>
<td>Basic Photography II (1/2)</td>
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</tr>
<tr>
<td>ART 189A</td>
<td>Photography Lab Tech (1-2)</td>
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<tr>
<td>ART 191</td>
<td>Photography Lab Technology 2(1)(F01)</td>
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<tr>
<td>CGR 201</td>
<td>Graphic Arts Fundamentals (3) (F06)</td>
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<tr>
<td>CGR 211</td>
<td>Typography I (3) (F06)</td>
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<tr>
<td>CGR 212</td>
<td>Electronic Prepress (3)(F06)</td>
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<tr>
<td>CGR 221</td>
<td>Image Capture &amp; Manip (3)(F06)</td>
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<tr>
<td>CGR 224</td>
<td>Elec Publishing Systems (3)(F06)</td>
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<tr>
<td>CGR 230</td>
<td>Graphic Design (3)(F06)</td>
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<tr>
<td>CGR 333</td>
<td>Copying (3)(F06)</td>
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<tr>
<td>CMPGR 202</td>
<td>Intro to Computer Graphics (3)</td>
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<tr>
<td>CMPGR 262</td>
<td>Exploring WWV (1)</td>
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<tr>
<td>CMPGR 284</td>
<td>Desktop Video Animation (3)</td>
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<tr>
<td>ENGL 105</td>
<td>Creative Writing: Poetry (3)</td>
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<td>ENGL 106</td>
<td>Creative Writing: Short Fiction (3)</td>
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<tr>
<td>ENGL 108</td>
<td>Creative Writing - Autobiography (3)</td>
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<tr>
<td>ENGL 109</td>
<td>Scriptwriting (3)</td>
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<tr>
<td>FILM 150</td>
<td>Film Production (3)</td>
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<tr>
<td>JRNAL 120</td>
<td>B,C Student Newspaper Prod. Staff (1,2,3)</td>
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<tr>
<td>JRNAL 146</td>
<td>B,C Newspaper Photo Staff (1,2,3)</td>
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<tr>
<td>MUSIC 120</td>
<td>Elementary Piano (1)</td>
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<tr>
<td>MUSIC 121</td>
<td>Piano Enrichment (1)</td>
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</tr>
<tr>
<td>MUSIC 122</td>
<td>Organ (Elementary) (1)</td>
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</tr>
<tr>
<td>MUSIC 127</td>
<td>Elementary Strings (1)</td>
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</tr>
<tr>
<td>MUSIC 131</td>
<td>Elementary Voice (1)</td>
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<tr>
<td>MUSIC 132</td>
<td>Voice Enrichment (1)</td>
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<tr>
<td>MUSIC 140</td>
<td>Brass/Percussion Instruments (Elem) (1)</td>
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<tr>
<td>MUSIC 146</td>
<td>Symphonic Band (2)</td>
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<tr>
<td>MUSIC 147</td>
<td>Evening Jazz Band (1)</td>
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<tr>
<td>MUSIC 148</td>
<td>Pep Band (1)</td>
<td></td>
</tr>
<tr>
<td>MUSIC 149</td>
<td>Jazz Band (2)</td>
<td></td>
</tr>
</tbody>
</table>

Students are encouraged to choose courses that align with their educational and career goals. The following courses are recommended for veterans or reservists who submit proof of U.S. military Basic Training:

- **Guidance & Activities Requirements**
- **Education Plan**
- **Guidance Requirement**

### Additional Recommendations

- ** veterinarians who submit proof of U.S. military Basic Training will receive two (2) units of activities. File copy of DD214 with MJC Veterans Office.**
MJC Students who complete the **Occupational and Technical Studies Plan** will follow the MJC-GE pattern to fulfill their General Education requirement for Associate degree in addition to other requirements specified in the **Occupational & Technical Studies plan.**

### Area A. Natural Sciences: Complete a minimum of three (3) units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 376</td>
<td>Basic Sci &amp; Lab Techniques (3)</td>
</tr>
<tr>
<td>AP 50</td>
<td>Elem Human Anat-Phys (3)</td>
</tr>
<tr>
<td>AP 150</td>
<td>Integrative Anat &amp; Physiology (4)</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>Intro to Animal Science (3)</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Physical Anthropology (3)</td>
</tr>
<tr>
<td>ANTH 105</td>
<td>Physical Anthro Lab (1)</td>
</tr>
<tr>
<td>ART 131</td>
<td>Intro to Artistic Expression (3)</td>
</tr>
<tr>
<td>ASTRO 160</td>
<td>Intro to Modern Astronomy (3)</td>
</tr>
<tr>
<td>BIO 50</td>
<td>Basic Biology (3)</td>
</tr>
<tr>
<td>BIO 101</td>
<td>Biological Principles (5)</td>
</tr>
<tr>
<td>BIO 111</td>
<td>General Biology (4)</td>
</tr>
<tr>
<td>BIO 115</td>
<td>Genetics, Evolution &amp; Society (3)</td>
</tr>
<tr>
<td>BIO 128</td>
<td>The Sierra Nevada (3)</td>
</tr>
</tbody>
</table>

### Area B. Social & Behavioral Sciences: Complete a minimum of three (3) units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ADJU 201</td>
<td>Intro to Admin of Justice (3)</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>Elem of Agr Economics (3)</td>
</tr>
<tr>
<td>AGEC 146</td>
<td>Ag, Environment &amp; Soc (3)</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology (3)</td>
</tr>
<tr>
<td>ANTH 140</td>
<td>Magic, Witchcraft &amp; Religion (3)</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>Intro to the US &amp; Euro Reconstruction (3)</td>
</tr>
<tr>
<td>CLDVL 303</td>
<td>Child Growth and Dev (3)</td>
</tr>
<tr>
<td>CLDVL 370</td>
<td>Analytical Development (3)</td>
</tr>
<tr>
<td>CLDVL 281</td>
<td>School-Age Dev (3)(F01)</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Environ Conservation (3)</td>
</tr>
<tr>
<td>ECON 120</td>
<td>Earth Science (4)</td>
</tr>
</tbody>
</table>

### Area C. Humanities: Complete a minimum of three (3) units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJU 201</td>
<td>Intro to Admin of Justice (3)</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>Elem of Agr Economics (3)</td>
</tr>
<tr>
<td>AGEC 146</td>
<td>Ag, Environment &amp; Soc (3)</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology (3)</td>
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<tr>
<td>ANTH 140</td>
<td>Magic, Witchcraft &amp; Religion (3)</td>
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<tr>
<td>BUSAD 240</td>
<td>Intro to the US &amp; Euro Reconstruction (3)</td>
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<td>CLDVL 370</td>
<td>Analytical Development (3)</td>
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<tr>
<td>CLDVL 281</td>
<td>School-Age Dev (3)(F01)</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Environ Conservation (3)</td>
</tr>
<tr>
<td>ECON 120</td>
<td>Earth Science (4)</td>
</tr>
</tbody>
</table>

### Area D. Language & Rationality: Complete D1 and D2 as indicated for six (6) units.

#### D.1 English Composition:

- Complete a minimum of three (3) units:
  - ENGL 110 History of Literature 2 (3)
  - ENGL 144 History of Literature 3 (3)
  - ENGL 146 History of Literature 4 (3)
  - ENGL 150 History of Literature 5 (3)
  - ENGL 151 History of Literature 6 (3)
  - ENGL 152 History of Literature 7 (3)
  - ENGL 153 History of Literature 8 (3)

#### D.2 Comm. & Analytical Thinking:

- Complete a minimum of three (3) units:
  - BUSAD 210 Business Communication (3)
  - CMPGR 264 Publishing on WW (3)

### Area E. Health Education: Complete a minimum of three (3) units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>FamLM 131</td>
<td>Family Relationships (3)</td>
</tr>
<tr>
<td>HE 110</td>
<td>Healthful Living (3)</td>
</tr>
<tr>
<td>HE 111</td>
<td>Women's Health Issues (3)</td>
</tr>
<tr>
<td>PSYCH 110</td>
<td>Human Sexual Behavior (3)</td>
</tr>
<tr>
<td>PSYCH 111</td>
<td>Human Disease (3)</td>
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</tbody>
</table>

### Other Recommendations:

- Veterans or reservists who submit proof of U.S. military Basic Training will receive three (3) units of health education. File copy of DD214 with MJC Veterans Of Allied Health Majors (ADN, VN) meet the Health Ed requirement by completion of major.
Modesto Junior College will certify completion of this pattern in part, or in its entirety, for students transferring to one of the twenty-three campuses of the California State University (CSU). Modesto Junior College will give full certification upon the completion of thirty-nine (39) designated units. Courses must be completed with a C or better to be certified. Some courses have only recently been approved for CSU transfer. Those courses are valid for transfer as of the date indicated in parentheses, i.e. (F99) or “Fall 1999.” Courses marked with a ^ may be used in one area only. This pattern does not reflect changes that occurred for the 2006-2007 academic year. Please visit [www.assist.org](http://www.assist.org) or Counseling Services in Morris, 103, for the new 2006-2007 CSU-GE Pattern.

<table>
<thead>
<tr>
<th>AREA A</th>
<th>Communication in the English Language and Critical Thinking</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one course in each category for a total of nine (9) units.</td>
</tr>
<tr>
<td></td>
<td><strong>A.1 ORAL COMMUNICATION</strong></td>
</tr>
<tr>
<td></td>
<td>SPCOM 100 Fund of Public Speech (3)</td>
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<td></td>
<td>SPCOM 102 Intro Human Comm (3)</td>
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<tr>
<td></td>
<td>SPCOM 110 Persuasion (3) (F93)</td>
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<tr>
<td></td>
<td><strong>A.2 WRITTEN COMMUNICATION</strong></td>
</tr>
<tr>
<td></td>
<td>ENGL 101 Comp and Reading (3)</td>
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<tr>
<td></td>
<td><strong>A.3 CRITICAL THINKING</strong></td>
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<tr>
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<td>CMPSC 103 Symbolic Logic (3)</td>
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<td>ENGL 103 Adv. Comp. &amp; Crit. Think. (3)</td>
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<td>PHIL 105 Symbolic Logic (3)</td>
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<td>PHIL 105 Reasoning (3)</td>
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<td>PHIL 107 Phil of Science (3) (F93)</td>
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<td></td>
<td>SPCOM 104 Argumentation (3)</td>
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<td>SPCOM 107 Intro to Debate (3)</td>
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<table>
<thead>
<tr>
<th>AREA B</th>
<th>Physical Universe, its Life Forms and Mathematical Concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nine (9) units with one course from B.1, B.2, and B.4 required. One course from B.1 or B.2 must be a laboratory course (marked with an asterisk *) for B.3.</td>
</tr>
<tr>
<td></td>
<td><strong>B.1 PHYSICAL SCIENCE</strong></td>
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<tr>
<td></td>
<td>GEOL 166* Historical Geol (4)</td>
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<td></td>
<td>METEO 160 Intro to Wthr &amp; Climate (3)</td>
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<tr>
<td></td>
<td>METEO 160-151* Intro to Meteorology/Lab (3-1)</td>
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<td>NR 200* Soils (F02)</td>
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<td>PHSCI 161 Science Matters (3)</td>
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<tr>
<td></td>
<td>PHSCI 164* Phys Sci Envir Lab (1) (F97)</td>
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<tr>
<td></td>
<td>PHYS 101* Gen Phys: Mechanics (4)</td>
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<tr>
<td></td>
<td>PHYS 102* Gen Phys: Waves, Therm, Optics (4)</td>
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<td></td>
<td>PHYS 103* Gen Phys: Elect, Mag, &amp; Mod Phys (4)</td>
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<tr>
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<td>PHYS 142* Mech, Heat &amp; Waves (4)</td>
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<tr>
<td></td>
<td>PHYS 143* Electricity, Magnetism, Optics (4)</td>
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<td>PHYS 160 Describe Intro to Physics (3)</td>
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<td></td>
<td>PHYS 164* Phys Environ Lab (1) (F97)</td>
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<td></td>
<td>PHYS 165* Introductory Physics (4)</td>
</tr>
</tbody>
</table>

|        | **B.2 LIFE SCIENCE** |
|        | ANAT 125* Human Anatomy (4) |
|        | AP 150* Integ Anat/Physio (4) (F96) |
|        | ANTHR 101* Phys Anthropology (3) (F90) |
|        | ANTHR 109 Phys Anthro Lab (1) (F98) |
|        | BIO 101* Biological Principles (5) |
|        | BIO 111* General Biology (4) |
|        | BIO 115 Genetics, Eval & Soc (3) (F97) |
|        | BIO 128 The Sierra Nevada (3) |
|        | BIO 140* Intro to Marine Biology (4) |
|        | BIO 145* Intro to Freshwater Biology (4) |
|        | BOT 101* General Botany (4) |
|        | BOT 110* Plant Biology (3) |
|        | ENSCI 108 Env. Conservation (3) |
|        | MICRO 101* Microbiology (4) (F94) |
|        | PHYSSO 102* Intro Human Physiology (4) |
|        | PLSC 200 Intro to Plant Science (3) |
|        | PSYCH 103 Psychology (3) |
|        | ZOOL 101* General Zoology (4) |
|        | ZOOL 110* Animal Biology (3) |

|        | **B.3 LABORATORY** |
|        | Take one course from B.1 or B.2 with a laboratory, as indicated by the asterisk (*). |

|        | **B.4 QUANTITATIVE REASONING AND MATHEMATICS** |
|        | MATH 101 Math Ideas and Applications (3) |
|        | MATH 105 Structure of Math 1 (3) |
|        | MATH 106 Structure of Math 2 (3) (F93) |
|        | MATH 111 Applied College Algebra (3) (F02) |
|        | MATH 121 College Algebra (4) (F98) |
|        | MATH 122 Func. of Analytical Geometry(4)(F98) |
|        | MATH 130 Finite Mathematics (3) |
|        | MATH 134 Elementary Statistics (4) |
|        | MATH 138 Calculus for Bus./S. S. (3) |
|        | MATH 171 Calculus: First Course (4) |
|        | MATH 172 Calculus: Second Course (4) |

<table>
<thead>
<tr>
<th>AREA C</th>
<th>Arts, Literature, Philosophy, and Foreign Language</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nine (9) units required. Three (3) units from C.1 and three (3) units from C.2. Three (3) additional units from C.1 or C.2.</td>
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<tr>
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<td><strong>C.1 ARTS</strong></td>
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<tr>
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<td>ARCH 117 History of Architecture 1 (3)</td>
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<td>ARCH 118 History of Architecture 2 (3)</td>
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<td>ART 102 Microcomp Graphics (3) (F91)</td>
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<td>ART 124 Basic Drawing 1 (3)</td>
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<td>ART 124 Color and Design (3)</td>
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<tr>
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<td>ART 140 Sculpture 1 (3)</td>
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<td>ART 160 Appreciation of Art (3)</td>
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<tr>
<td></td>
<td>ART 161 American Art (3) (F90)</td>
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<tr>
<td></td>
<td>ART 162 Hist of Renaiss Art (3) (F92)</td>
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<tr>
<td></td>
<td>ART 163 Hist of Modern Art (3) (F94)</td>
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<td>ART 164 History of Art 1 (3)</td>
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<td>ART 165 History of Art 2 (3)</td>
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<td>ART 168 Survey of Photography (3)</td>
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<td>ART 169 History of Non-Western Art (3) (F99)</td>
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<td>ART 170 Basic Photography (3) (F99)</td>
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<td>CMPGR 202 Intro to Computer Graphics (3) (F91)</td>
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<tr>
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<td>ENGL 161* Film Appreciation (3) (F05)</td>
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<tr>
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<td>MUSIC 106 Music Theory 3 (3) (F93)</td>
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<td>MUSIC 110 Music Appreciation (3)</td>
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<td></td>
<td>MUSIC 112 History of Music 1 (S05)</td>
</tr>
<tr>
<td></td>
<td>MUSIC 113 History of Music 2 (3) (F93)</td>
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<tr>
<td></td>
<td>MUSIC 118 Intro to Amer Pop Music (3)</td>
</tr>
<tr>
<td></td>
<td>MUSIC 169 Intro to World Music (3) (F99)</td>
</tr>
<tr>
<td></td>
<td>PE 194 Intro to World Dance (3) (F01)</td>
</tr>
<tr>
<td></td>
<td>SPCOM 120 Oral Read &amp; Interp(3)</td>
</tr>
<tr>
<td></td>
<td>SPCOM 122 Intro to Readers’ Theater (3)</td>
</tr>
<tr>
<td></td>
<td>SPCOM 123 Storytelling (3) (F90)</td>
</tr>
<tr>
<td></td>
<td>SPCOM 124 Advanced Readers’ Theatre (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 100 Intro to Theatre Arts (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 102 World Theatre (3) (F05)</td>
</tr>
<tr>
<td></td>
<td>THETR 120 Oral Read &amp; Interp(3)</td>
</tr>
<tr>
<td></td>
<td>THETR 122 Intro to Readers’ Theatre (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 123 Storytelling (3) (F90)</td>
</tr>
<tr>
<td></td>
<td>THETR 124 Advanced Readers’ Theatre (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 150* Elements of Playwriting (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 160 Fundamentals of Acting (3)</td>
</tr>
<tr>
<td></td>
<td>THETR 161 Intermediate Acting (3)</td>
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<tr>
<td></td>
<td>THETR 165 History of American Music Theater (3) (F92)</td>
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<tr>
<td></td>
<td>THETR 194 Intro to World Dance (3) (F91)</td>
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</tbody>
</table>

|        | **C.2 LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGE** |
|        | ENGL 102 Adv Comp & Intro to Lit (3) |
|        | ENGL 105 Creative Writing, Poetry (3) |
|        | ENGL 106 Creative Writing, Short Fiction (3) |

Courses marked with a ^ may be used in one area only.
<table>
<thead>
<tr>
<th>Area D</th>
<th>Social, Political, and Economic Institutions and Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nine (9) units from at least two disciplines. Courses marked with * may be used in one area only.</td>
<td></td>
</tr>
</tbody>
</table>

### D.0 SOCIOLGY AND CRIMINOLOGY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ADJS 201</td>
<td>Intro Admin of Justice (3)</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>Intro to Sociology (3)</td>
</tr>
<tr>
<td>SOCI 102</td>
<td>Social Problems in US (3)</td>
</tr>
<tr>
<td>SOCI 125</td>
<td>Sociology of the Family (3)</td>
</tr>
<tr>
<td>SOCI 150*</td>
<td>Ethnic &amp; Culture in Am (3)</td>
</tr>
<tr>
<td>SOCI 150*</td>
<td>Afr. Amer. Chrs. &amp; Commt (3)</td>
</tr>
<tr>
<td>SOCI 150*</td>
<td>Mexican Culture in the U.S(3)</td>
</tr>
</tbody>
</table>

### D.1 ANTHROPOLOGY & ARCHAEOLOGY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ANTH 101*</td>
<td>Physical Anthropology (3)</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology (3)</td>
</tr>
<tr>
<td>ANTH 130</td>
<td>Arch and Cultural Prehist (3)</td>
</tr>
<tr>
<td>ANTH 140</td>
<td>Magic, Witch &amp; Relig (3)</td>
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<tr>
<td>ANTH 150</td>
<td>Native People of N. Amer (3)</td>
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### D.2 ECONOMICS

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>AGEC 210</td>
<td>Elem. of Ag Econ (3)</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Econ. Prin: Macroecon (3)</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Econ. Prin: Microecon (3)</td>
</tr>
<tr>
<td>ECON 115*</td>
<td>Econ Hist of the US (3)</td>
</tr>
<tr>
<td>GEOG 105*</td>
<td>Economic Geog (3)</td>
</tr>
<tr>
<td>HIST 115*</td>
<td>Econ Hist of the US (3)</td>
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</table>

### D.3 ETHNIC STUDIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>HIST 125*</td>
<td>History of Mexico (3)</td>
</tr>
<tr>
<td>HIST 145*</td>
<td>Latin American History (3)</td>
</tr>
<tr>
<td>HIST 154*</td>
<td>Afr. Amer thru 19th Century (3)</td>
</tr>
<tr>
<td>HIST 155*</td>
<td>Hist Afr. Amer in 20th/21st Cent. (3)</td>
</tr>
<tr>
<td>SOCIO 150*</td>
<td>Ethnicity in America (3)</td>
</tr>
<tr>
<td>SOCIO 154*</td>
<td>Afr- Ame Culture &amp; Communities (3)</td>
</tr>
<tr>
<td>SOCIO 156*</td>
<td>Mex Culture in the US (3)</td>
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</table>

### D.4 GENDER STUDIES

<table>
<thead>
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<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>INDTS 105</td>
<td>Intro to Women's Studies (3)</td>
</tr>
<tr>
<td>POLSC 151*</td>
<td>Women and Politics (3)</td>
</tr>
<tr>
<td>SOCIO 105*</td>
<td>Women's Studies (3)</td>
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### D.5 GEOGRAPHY

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>GEOG 102</td>
<td>Cultural Geography (3)</td>
</tr>
<tr>
<td>GEOG 105*</td>
<td>Economic Geog (3)</td>
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<tr>
<td>GEOG 110</td>
<td>World Regional Geog (3)</td>
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### D.6 HISTORY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>History of US thru Reconstruction (3)</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of the US- Post Civil War (3)</td>
</tr>
<tr>
<td>HIST 104</td>
<td>Western Civilization (3)</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Western Civilization (3)</td>
</tr>
<tr>
<td>HIST 106</td>
<td>World Civ. to the 16th Century (3)</td>
</tr>
<tr>
<td>HIST 107</td>
<td>World Civ. from the 16th Century (3)</td>
</tr>
<tr>
<td>HIST 112</td>
<td>Twentieth Century Amer (3)</td>
</tr>
<tr>
<td>HIST 113</td>
<td>Soc &amp; Cult Hist of US Prior to 20th Cent (3)</td>
</tr>
<tr>
<td>HIST 115*</td>
<td>Econ History of the US(3)</td>
</tr>
<tr>
<td>HIST 116</td>
<td>Women in Amer History (3)</td>
</tr>
<tr>
<td>HIST 119</td>
<td>Soc &amp; Cult Hist 20th Cent Amer (3)</td>
</tr>
<tr>
<td>HIST 125*</td>
<td>History of Mexico (3)</td>
</tr>
<tr>
<td>HIST 128</td>
<td>Hist of Amer Far Western Frontier (3)</td>
</tr>
<tr>
<td>HIST 129</td>
<td>History of California (3)</td>
</tr>
<tr>
<td>HIST 145*</td>
<td>Survey of Latin Amer Civilization (3)</td>
</tr>
<tr>
<td>HIST 154*</td>
<td>Hist Afr. Amer thru 19th Cent (3)</td>
</tr>
<tr>
<td>HIST 155*</td>
<td>Hist Afr. Amer in 20th/21st Cent (3)</td>
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</table>

### D.7 INTERDISCIPLINARY SOCIAL OR BEHAVIOR SCIENCE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>AGGE 146</td>
<td>Ag, Envir &amp; Soc. (3)</td>
</tr>
<tr>
<td>ENSCI 110</td>
<td>Calif Water (3)</td>
</tr>
<tr>
<td>SPCOM 130*</td>
<td>Intercultural Communication (3)</td>
</tr>
</tbody>
</table>

### D.8 POLITICAL SCIENCE, GOVERNMENT AND LEGAL INSTITUTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PHIL 130</td>
<td>Political Theory (3)</td>
</tr>
<tr>
<td>POLSC 101</td>
<td>American Politics(3)</td>
</tr>
<tr>
<td>POLSC 102</td>
<td>The Const. and Rights of Americans (3)</td>
</tr>
<tr>
<td>POLSC 110</td>
<td>International Relations (3)</td>
</tr>
<tr>
<td>POLSC 111</td>
<td>War &amp; Peace in 20th Cent (3)</td>
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</table>

### D.9 PSYCHOLOGY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PSYCH 101</td>
<td>General Psychology (3)</td>
</tr>
</tbody>
</table>

Total Units required for General Education: 39 Units

## U.S. History and Government

Six (6) units are needed to complete the US History & Government requirement for the BA/BS degree. Three (3) units from Group a and three (3) units from Group b or six (6) units from Group c. Six (6) units may also be counted toward Area D.

**Group a.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ECON/HIST 115</td>
<td>Econ Hist of US (3)</td>
</tr>
<tr>
<td>HIST 112</td>
<td>Twentieth Cent. America(3)</td>
</tr>
<tr>
<td>HIST 113</td>
<td>Soc &amp; Cult Hist US Prior to 20th Cent (3)</td>
</tr>
<tr>
<td>HIST 116</td>
<td>Women in Amer History (3)</td>
</tr>
<tr>
<td>HIST 119</td>
<td>Soc &amp; Cult Hist 20th Cent Amer (3)</td>
</tr>
<tr>
<td>HIST 125*</td>
<td>History of Mexico (3)</td>
</tr>
<tr>
<td>HIST 128</td>
<td>Hist of Amer Far Western Frontier (3)</td>
</tr>
<tr>
<td>HIST 129</td>
<td>History of California (3)</td>
</tr>
<tr>
<td>HIST 145*</td>
<td>Survey of Latin Amer Civilization (3)</td>
</tr>
<tr>
<td>HIST 154*</td>
<td>Hist Afr. Amer thru 19th Cent (3)</td>
</tr>
<tr>
<td>HIST 155*</td>
<td>Hist Afr. Amer in 20th/21st Cent (3)</td>
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</tbody>
</table>

**Group b.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>POLSC 101</td>
<td>American Politics (3)</td>
</tr>
<tr>
<td>POLSC 102</td>
<td>The Const. and Rights of Americans (3)</td>
</tr>
<tr>
<td>POLSC 120</td>
<td>Calif Politics &amp; Prob (3)</td>
</tr>
</tbody>
</table>

**Group c.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>Hist of the US thru Reconstruction(3)</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Hist of US-Post Civil War (3)</td>
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</tbody>
</table>
IGETC Transfer Pattern 2005-2006

MJ C General Education Transfer pattern for University of California or California State University

Completion of the IGETC (Intersegmental General Education Transfer Curriculum) will permit a student to transfer from a community college to most campuses and majors in either the California State University or University of California system without the need, after transfer, to take additional lower division general education courses to satisfy campus-specific general education requirements. All courses must be completed with a grade of "CR" or "C" (or better). This pattern does not reflect changes that occurred for the 2006-2007 academic year. Please visit www.assist.org or Counseling Services in Morris, 103, for the new 2006-2007 IGETC Pattern.

<table>
<thead>
<tr>
<th>AREA 1</th>
<th>English Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If you plan to attend CSU, choose 3 courses, 1 from each group. If you plan to attend UC, choose 2 courses, 1 from Group A, and 1 from Group B.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GROUP A - English Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>One course, or three (3) semester units.</td>
</tr>
</tbody>
</table>

| ENGL 101 | Composition & Reading (3) |

<table>
<thead>
<tr>
<th>GROUP B - Critical Thinking/English Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>One course, or three (3) semester units.</td>
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</tbody>
</table>

| ENGL 103 | Adv. Comp & Critical Thinking (3) |
| PHIL 105 | Reasoning (3) |
| PHIL 107 | Philo of Science (3) (F93) |
| SPCOM 104 | Argumentation (3) (F93) |

<table>
<thead>
<tr>
<th>GROUP C - Speech Communication (CSU ONLY)</th>
</tr>
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<tbody>
<tr>
<td>One course, or three (3) semester units.</td>
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| SPCOM 100 | Fund of Public Speaking (3) |
| SPCOM 102 | Intro to Human Communication (3) |

<table>
<thead>
<tr>
<th>AREA 2</th>
<th>Mathematical Concepts and Quantitative Reasoning</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One course, or three (3) semester units.</td>
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</tbody>
</table>

| MATH 101 | Math Ideas & Application (3) |
| MATH 111 | Applied Algebra (3) (F02)** |
| MATH 121 | Pre-Calculus 1 (4)**(F98) |
| MATH 122 | Pre-Calculus 2 (4)**(F98) |
| MATH 130 | Finite Mathematics (3) |
| MATH 134 | Elementary Statistics (4) |
| MATH 138 | Calculus for Business/Soc Sci (3)** |
| MATH 171 | Calculus: First Course (4)** |
| MATH 172 | Calculus: Second Course (4) |

<table>
<thead>
<tr>
<th>AREA 3</th>
<th>Arts and Humanities</th>
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<tbody>
<tr>
<td></td>
<td>For UC and CSU, choose at least three (3) courses/ nine (9) semester units. One course must be from 3A and one from 3B, and one additional course from either 3A or 3B.</td>
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<table>
<thead>
<tr>
<th>3A. Arts</th>
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<tbody>
<tr>
<td>ART 117</td>
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<td>ART 118</td>
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<td>ART 150</td>
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<td>ART 161</td>
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<td>ART 162</td>
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<td>ART 163</td>
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<td>ART 164</td>
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<td>ART 165</td>
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<table>
<thead>
<tr>
<th>3B. Humanities</th>
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<tbody>
<tr>
<td>ENGL 112</td>
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<thead>
<tr>
<th>AREA 4</th>
<th>Social and Behavioral Sciences</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>At least three courses/nine (9) semester units in a minimum of two disciplines.</td>
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</table>

| ANTHR 102 | Cultural Anthropology (3) |
| ANTHR 130 | Archaeology & Cult Prehist (3) |
| ANTHR 150 | Native People of North America (3) |
| ECON 101 | Econ Principles: Macro (3) |
| ECON 102 | Econ Principles: Micro (3) |
| ECON 115 | Econ History of the US (3)** |
| ENSI 110 | California Water (3)(F98) |
| GEOG 102 | Cultural Geography (3) |
| GEOG 105 | Economic Geography (3)(S00) |
| HIST 101 | History of the US through Reconstruction (3)** |
| HIST 102 | History of the US-Post Civil War (3)** |
| HIST 104 | Western Civilization (3) |
| HIST 105 | Western Civilization (3) |
| HIST 106 | World Civ. to the 16th Century (3)(F02) |
| HIST 107 | World Civ. from the 16th Century (3)(F02) |
| HIST 112 | 20th Century America (3)** |
| HIST 113 | Soc/Intl Hist. of US prior to 20th Cent,(3)** |
| HIST 115 | Economic History of the US ** |
| HIST 116 | Women in American Hist (3)** |
| HIST 119 | Soc/Intl Hist. 20th Cent Amer (3)(F00)** |
| HIST 125 | History of Mexico (3) |
| HIST 128 | History of American Far West Front (3)(F95) |
| HIST 129 | History of California (3) |
| HIST 145 | Latin American History(3) |
| HIST 154 | Afr-Amer thru 19th Cent.(3)(F99) |
| HIST 155 | Afr-Amer in 20th & 21st Cent. (3)(F02) |
| PHIL 130 | Political Theory (3) |
| POLS 101 | American Politics (3)** |
| POLS 102 | Const & Rights of Amer (3)** |
| POLS 110 | International Relations (3) |
| POLS 111 | War & Peace in 20th Cent (3) |
| POLS 120 | Civil Liberties & Problems (3)** |
| POLS 130 | Political Theory (3) |
| POLS 140 | Comparative Government (3) |
| POLS 151 | Women and Politics(3)(S04) |
| PSYCH 101 | General Psychology (3) |
| PSYCH 104 | Social Psychology (3) |
| PSYCH 110 | Human Sexuality (3)** |
| PSYCH 141 | Human Lifespan (3)** |
| SOCIO 101 | Introduction to Sociology (3) |
| SOCIO 102 | Social Prob. in the US (3)(F99) |
| SOCIO 125 | Sociology of the Family (3) |
| SOCIO 150 | Ethnic & Culture in America (3) |
| SOCIO 154 | Afr-Amer Cultures and Communities (3) |
| SOCIO 156 | Mexican Culture in the US (3) |
| SOCS 105 | Women's Studies (3)(S01) |
| SPCOM 130 | Intercultural Comm. (3)(F97) |

** Indicates that transfer credit may be limited on specific course sequences at the University of California. Please consult the UC Transfer Course Agreement available in the Counseling Office,MM 103 or Transfer Center. |

**See limitation on credit under United States History, Constitution and American Ideals Requirement.
A note about IGETC:
The IGETC Pattern is not recommended for certain UC colleges and majors. Please see IGETC Considerations on page 71.
Transfer to California State University

MJC and CSU

The California State University system depends on community college transfers for a large portion of its upper-division enrollment. More than 50% of CSU Bachelor’s degrees are awarded to community college transfers. By proper program planning, students may complete lower division preparation at MJC and transfer to the campus of their choice without loss of units. Information on the major transfer fields for which students may prepare at MJC is available in the Counseling/Transfer Center.

California State University System

The campuses vary in size and are located in communities ranging from small towns to large metropolitan areas. They include the following campuses:

- California Maritime Academy
- California State Polytechnic University, Pomona
- California State Polytechnic University, San Luis Obispo
- California State University, Bakersfield
- California State University, Channel Islands
- California State University, Chico
- California State University, Dominguez Hills
- California State University, East Bay
- California State University, Fresno
- California State University, Fullerton
- California State University, Long Beach
- California State University, Los Angeles
- California State University, Monterey Bay
- California State University, Northridge
- California State University, Sacramento
- California State University, San Bernardino
- California State University, San Marcos
- California State University, Stanislaus
- Humboldt State University
- San Diego State University
- San Francisco State University
- San Jose State University
- Sonoma State University

Admission for California Residents

If space is available, students who were eligible to enter a California State University upon graduation from high school are eligible to transfer on a space available basis from a community college at the close of any semester with a cumulative grade point average of 2.0 (C) or better.

Students who were not eligible to enter a California State University upon graduation from high school must satisfy specific course requirements and complete 60 units in courses certified for baccalaureate credit with a grade point average of 2.0 (C) or better.

Planning to Transfer

Students planning to transfer to one of the California State Universities must keep the following requirements in mind when selecting courses:

1. **General Education Breadth**: Required for graduation from CSU. Select either option to complete lower division requirements at MJC.
   - A: Complete the CSU-GE Transfer Pattern on p. 66.
   - B: Complete the IGETC Transfer Pattern on p. 68.
2. **Prerequisite courses for major**: Some lower division courses in the student’s area of specialization must be taken prior to transfer. The student should consult his/her advisor/counselor to determine divisional course requirements.
3. **Requirements for the minor**: In some programs a minor is also required; the student is advised to check carefully to include lower division courses which may be the prerequisite to upper division work in the minor.
4. **Impacted majors**: High demand majors have very specific criteria such as course work and GPA requirements. Check with a counselor to determine if major or university has impaction status.
5. **Transferability of courses**: Only courses certified as appropriate for baccalaureate credit are transferable. 100 to 299 are accepted by all campuses of the California State University.

In planning a lower division program at MJC, bear in mind that a minimum of 120 semester units of college work for a B.A. or B.S. degree is required. By state law the State University may accept for transfer from a community college a maximum of 70 semester units of credit.

Lower Division Transfer Patterns

(Program Effective Fall 2007)

The Lower Division Transfer Patterns (LDTP) is a program sponsored by the California State University (CSU) and supported by the California Community Colleges that presents potential transfer students with the most direct path to a bachelor’s degree in the CSU system. The ultimate goal of the LDTP is to identify a set of “road maps” for students to follow that will increase their academic preparation and decrease their time to graduate once they enter the CSU. Students who elect to follow the LDTP option will receive the highest priority for admission to a CSU campus.

Highest priority for admission is defined as a written guarantee that is granted at the time the student accepts the offer of the LDTP agreement from a specific CSU campus subject to satisfactory completion of the requirements of the agreement between the student and the CSU. Students will be asked to complete a distinct set of general education and major courses which are common to all CSU campuses and identify a major program with a CSU campus once they have completed 45 transferable units.

In addition, students will complete a set of major courses specific to the campus they select to meet the required 60 units needed to transfer to CSU as an upper division transfer student. Through CSUMentor (http://www.csumentor.edu/), counselors and students will be able to obtain more information regarding the process of entering into an LDTP for a specific campus and major, “road maps” detailing coursework by campus and major, and a transfer planner for students to track their progress through the LDTP program.
Transfer to University of California

The University of California System

The University of California (UC) has established campuses throughout the state of California. All campuses have uniform entrance requirements and certain other features in common. However, each campus is distinctive and not all majors are offered on all campuses. Students should study the list of undergraduate colleges, schools, and majors available on each campus to determine which campuses will best satisfy their educational needs. Students are encouraged to discuss with their counselors the particular advantages each campus has to offer.

University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, Merced (new campus)
University of California, Riverside
University of California, San Diego
University of California, San Francisco (Medicine)
University of California, Santa Barbara
University of California, Santa Cruz

Program Planning

Students who plan to transfer to the University of California must keep the following requirements in mind when selecting courses:

1. **General Education Breadth:**
   - **Option 1:** Complete the campus-specific General Education breadth requirements. Lists of approved courses which may be used to satisfy breadth requirements are available in the Counseling Center.
   - **Option 2:** Complete the IGETC Transfer Pattern (p.68).

2. **Transfer credit:** The University grants transfer credit only for courses on its approved list which is available in the Counseling Center. Visit www.assist.org for details.

3. **Major:** Certain majors require completion of specific courses for admission. Advisors or counselors will assist students in selecting appropriate courses for their given majors.

In planning a lower-division program at MJC, the student should bear in mind that a minimum of 120 semester units of college work for a Bachelor of Arts or Bachelor of Science degree is required. By state law, the University may accept a maximum of 70 semester units of credit for transfer from a community college.

IGETC Considerations

Certain students will not be served by following the IGETC. Students who intend to transfer into a major that requires extensive lower division preparation such as engineering or the physical and natural sciences should concentrate on completing the many prerequisites for the major that the college screens for admissions eligibility.

**UC BERKELEY**
In general, the IGETC is not appropriate preparation for majors in those colleges: Colleges of Engineering, Environmental Design, Chemistry, Natural Resources and the Haas School of Business.

**UC DAVIS**
IGETC is not appropriate preparation for Bachelor of Science majors; instead, students are advised to concentrate on major-specific preparatory work.

**UC LOS ANGELES**
The School of Engineering and Applied Sciences does not accept the IGETC.

**UC MERCED**
The School of Engineering and the School of Natural Sciences do not recommend the IGETC.

**UC RIVERSIDE**
The College of Engineering and the College of Natural and Agricultural Sciences do not accept IGETC although any course taken to satisfy the IGETC may be applied toward the college’s breadth pattern. The College of Humanities, Arts and Social Sciences accepts IGETC.


**UC SAN DIEGO**
The IGETC is accepted by John Muir, Earl Warren, Sixth and Thurgood Marshall colleges only. IGETC completion is welcomed at Eleanor Roosevelt and Revelle colleges; however they must fulfill the specific G.E. requirements of those colleges.

**UC SANTA BARBARA**
Transfers in the College of Letters and Science and the College of Creative Studies may use the IGETC to substitute for general education requirements. Transfers into the College of Engineering may also use the IGETC to substitute for general education requirements. In addition to general education, all students in the College of Engineering are required to complete a depth requirement. Students who wish to satisfy the depth requirement prior to transfer must complete a yearlong sequence in the history of world civilization, history of Western civilization, history of Western philosophy, or history of Western art. Students may want to choose courses for the IGETC that will concurrently satisfy the depth requirement. After transfer, students may also complete the depth requirement with upper division coursework.

**UC SANTA CRUZ**
The IGETC is not appropriate preparation for any major in the Jack Baskin School of Engineering or the Division of Physical and Biological Sciences. This is because the IGETC will not provide student with enough mathematics and science courses to complete their major in two years after transferring.
The California Articulation Numbering System (CAN) assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus; for example, CAN ANTH 2 on one campus will be acceptable for CAN ANTH 2 on another participating campus. Each campus retains its own numbering system. The following is a listing of Modesto Junior College's CAN courses. This listing will be updated periodically. Check with your counselor for additions to the list.

<table>
<thead>
<tr>
<th>CAN</th>
<th>MJC COURSE</th>
<th>CAN</th>
<th>MJC COURSE</th>
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<td>MATH 172</td>
<td>STAT 2</td>
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Transfer to Private Schools and Schools Outside of California

Students who plan to transfer to private colleges or universities outside the UC and CSU systems are advised to consult the catalog of the college to which they plan to transfer for specific lower-division requirements which may be completed at MJC. For assistance in planning a transfer program to private institutions, students should contact a counselor, or visit the MJC Career Development & Transfer Center.
STUDENT POLICY OF NON-DISCRIMINATION

Modesto Junior College affirms its commitment to equality of opportunity for all individuals. This commitment requires that no discrimination shall occur regarding admission or access to, or treatment or employment in, any program or activity in the College on the basis of ethnic group identification, religion, age, sex, sexual orientation, color, physical or mental disability, or lack of English language skills. This policy is in accordance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the Age Discrimination Act of 1975. The lack of English language skills will not be a barrier to enrollment in Vocational Programs. Students who believe they have been unlawfully discriminated against because of ethnic group identification, religion, age, sex, sexual orientation, color, physical or mental disability, or lack of English language skills should contact Dr. Robert E. Nadell, Vice President, Student Services, in Morris Memorial Building, Room 212, telephone 575-6060.

Yosemite Community College District and Modesto Junior College have made every reasonable effort to insure that everything stated in this 2006-2007 catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Yosemite Community College District or Modesto Junior College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies, and procedures.

Inquiries regarding federal laws and regulations concerning non-discrimination in education or the District's compliance with those provisions may also be directed to:

Office of Civil Rights
Old Federal Building
50 United Nations Plaza, Room 239
San Francisco, CA 94102

No Discriminación

Modesto Junior College reafirma su propósito de ofrecer igualdad de oportunidad a todas las personas. Este compromiso requiere que ningún individuo sufra discriminación en cuanto a la admisión, al acceso, en el trato, o en las oportunidades de empleo, en cualquier programa o actividad en esta institución a causa de su grupo étnico, religión, edad, sexo, preferencia sexual, color, o incapacidad física o mental. Esta política está conforme con el Título VI del Acta de los Derechos Civiles de los Derechos Civiles de 1964, Título IX de las Enmiendas de Educación de 1972, Sección 504 del Acta de Rehabilitación de 1973, el Acta de Americanos con Impedimentos, y el Acta contra la Discriminación en el Empleo a causa de la Edad de 1975. La falta de conocimiento del inglés no será obstáculo a la admisión a los programas de educación vocacional. Los estudiantes que crean haber sufrido discriminación por pertenecer a cualquiera de las categorías arriba mencionadas deben comunicarse con la Dra. Robert E. Nadell, Vice Presidente, Servicios Estudiantiles en la oficina número 212 del edificio Morris Memorial, teléfono 575-6060.

Para más información respecto a las leyes federales y regulaciones tocantes a la prohibición de discriminación en la educación, O el cumplimiento de este Distrito con dichas leyes y regulaciones, comuníquese al:

Yosemite Community College District y Modesto Junior College han hecho todo lo posible por asegurar que el contenido del catálogo de 2006-2007 sea correcto. La información contenida en este catálogo sobre cursos y programas e información sobre otras actividades está sujeta a cambios sin previo aviso a criterio de la administración de Yosemite Community College District o Modesto Junior College por razones relacionadas con el número de estudiantes inscritos, nivel de apoyo financiero, o por cualquier otra razón, a discreción del Distrito y del Collegeo. El Distrito y el Collegeo además se reservan el derecho de añadir, modificar, o anular cualquiera de sus reglamentos, regulaciones, política de acción, y procedimientos.
Programs

Degrees and Certificates Awarded at MJC
### Theatre Program

The Theatre Program at MJC is designed to prepare students to work in professional or semi-professional theatre situations, or to transfer to four-year colleges and universities to pursue additional drama courses that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costumes, directing, playwriting, lighting, makeup, and interpretation, stage design, and children’s theatre. The Theatre program provides students the opportunity to act in major productions.

#### Certificate: Design & Technical Theatre
- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>THETR 101</td>
<td>Basic Voice Improvement</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Certificate: Theatre Performance
- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>SPCOM 104</td>
<td>Argumentation</td>
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<tr>
<td>SPCOM 107</td>
<td>Introduction to Debate</td>
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</table>

#### Certificate: Theatre History
- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

<table>
<thead>
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<th>Course Title</th>
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<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>SPCOM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
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<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### AA Degree: Theatre
- To earn an Associate in Arts Degree, the student must complete the following coursework. Each course must be completed with a grade of C or better.

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<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
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</table>

#### Elective Courses
- Elective courses (students can be given options between or among courses in the Electives)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

### Speech Communication Program

#### Certificate: Speech Communication
- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Required Courses
- Required courses (students should consult with a Theatre faculty advisor for selection of courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### ORAL COMMUNICATION AREA - Complete 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
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<td>SPCOM 102</td>
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</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### CRITICAL THINKING AREA - Complete 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 104</td>
<td>Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 107</td>
<td>Introduction to Debate</td>
<td>3</td>
</tr>
</tbody>
</table>

#### GROUP AND ORGANIZATIONAL COMMUNICATION AREA - Complete 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCOM 100</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

### Continued

### Educational Programs at MJC
Educational Programs in

Agriculture & Environmental Sciences

Division Information
Agriculture Bldg. 100
(209) 575-6200

Mark Anglin,
Division Dean

FACULTY
Steve Amador
David Baggett, PhD.
Marlies Boyd
Gail Brumley
Todd Conrado
Bill Hobby
John Mendes
Mike Morales
John Nicewonger
Richard Nimphius
Dale Pollard

SUPPORT STAFF
Gloria Wilson, Admin.Secretary
Don Borges, Director, Tech Prep
Rhonda Wolf, Secretary II
Julie Haynes, Program Rep. III
Andy Alderson, Operations Farm Mgr.
Danny Layne, Lab Asst. I
James Palmer, Lab Asst. I
Lee Ridge, Lab Asst. I

Degrees and/or Certificates offered in the following areas:
Agricultural Business, AS
Agriculture Laboratory Technician, AS, C
Agricultural Science, AS
Agriculture - Sales, Service Technician, AS, C
Animal Science, AS
Artificial Insemination Technician, C
Commercial Floristry Technician, C
Crop Science, AS
Dairy Industry, AS
Dairy Industry Technician, C
Dairy Science, AS
Environmental Horticultural Science, AS

Food Processing, AS, C
Forestry, AS, C
Fruit Science, AS
Landscape Arch/Landscape Design., C
Landscape/Park Maintenance, C
Mechanized Agriculture, AS
Mechanized Agriculture Technician, C
Nursery Production, C
Poultry Science, AS
Recreational Land Management, AS, C
Soil Science, AS
Veterinary Technician, C

Agricultural studies play an essential part in filling the world-wide demand for food and fiber. The program of courses offered in agriculture is designed to prepare students for a variety of professions or occupations in agriculture or transfer to higher institutions. Students preparing for immediate entry into agricultural occupations will find practical sequences of courses designed to assist them in achieving their occupational goals. University transfers may take agricultural courses appropriate to the majors and programs of the institutions to which they are transferring.

Supervised practice (work experience) is an essential part of the instruction offered and is a requirement for completion of all agricultural programs. Majors completing the appropriate requirements may earn the Associate in Science degree. Transfer and community college students completing the requirements of technical programs may earn certificates of completion.

Students should consult division advisors for enrollment and program details before registration. In order to complete a program, students must complete courses approved by the division. Divisional advisors will assist students in the selection of proper courses and sequences.

Agricultural Science Program

A.S. Degree - Agricultural Science

To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements, in addition to completing the 30 units required below.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers......1

AG 549A-D [NP] Work Experience (for a total of 4 units) ............... 4 OR
AG 249 [NP] Agriculture Internship ......................................... 4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [NP] Introduction to Plant Science .......................... 3
ANSC 200 [NP] Introduction to Animal Science ...................... 3
NR 200 [NP] Soils ................................................................. 4
AGM 200 [NP] Introduction to Mechanical Technology ........... 3
AGEC 225 [NP] Agriculture Computer Applications ............... 3 OR
AGEC 210 [NP] Elements of Agriculture Economics ............... 3 OR

III. Agriculture Major Courses - Complete 9 units
ANSC 201 [NP] Beef Cattle Science ................................... 3 OR
ANSC 202 [NP] Swine Science ............................................. 3 OR
ANSC 203 [NP] Sheep Science ............................................. 3
ANSC 230 [2,3,4] Poultry Science ....................................... 3
EHS 210 [NP] Introduction to Environmental Horticulture ...... 3
PLSC 220 [NP] Fruit Science ............................................... 3

IV. Agriculture Major Elective Courses - Complete 7 units
ANY CLASS NOT USED IN AREA II & III
ANY 200 LEVEL AGRICULTURE CLASS APPROVED BY ADVISOR
2 UNITS OF 300 LEVEL CLASS

TOTAL UNITS IN A.S.MAJOR ........................................... 30

Continued
Agricultural Business Program

This program will develop and expand the student’s knowledge of Agriculture Business. The student will develop knowledge and skills sufficient to gain and hold entry-level jobs in Ag Business. Contact the division office in the Agriculture Building for advising assistance.

A.S. Degree - Agriculture Business

• To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers……1
AG 349A-D [NP] Work Experience (for a total of 4 units)………………4 OR
AG 249 [NP] Agriculture Internship…………………………………….4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [1,2] Introduction to Plant Science…………………………3
ANSC 200 [1,2] Introduction to Animal Science…………………………3
NR 200 [1,2] Soils……………………………………………………………4
AGM 200 [NP] Introduction to Mechanical Technology…………………3

III. Major Required Courses - Complete 12 units
AGEC 200 [2] Agriculture Accounting and Analysis…………………3
AGEC 210 [NP] Elements of Agricultural Economics…………………..3
AGEC 220 [3,4] Agribusiness Management……………………………3
AGEC 225 [NP] Agriculture Computer Applications…………………..3

IV. Elective Courses - Complete 4 units
Any 200 series Agriculture course with a laboratory.
No more than 1 unit in a 300 level Agriculture class.

TOTAL UNITS IN A.S. MAJOR ........................................................................ 30

Agricultural Laboratory Program

The student will acquire skills for entry-level employment in an agricultural laboratory analyzing soil, feed, food, water, etc. Contact the division office in the Agriculture Building for advising assistance.

Certificate: Agriculture Laboratory Technician

• To earn a Certificate of Achievement, the student must complete the coursework as indicated below in completing 400 hours of in-laboratory work experience. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers……1
AG 349A-D [NP] Work Experience………………………………………1-4 OR
AG 249 [NP] Agriculture Internship…………………………………….4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [NP] Introduction to Plant Science…………………………3

III. Agriculture Major Required Courses - Complete 8 units
AG 376 [3,4] Basic Science and Laboratory Techniques………………3
AG 280 [NP] Agricultural Computations………………………………3 OR
AGEC 225 [NP] Agriculture Computer Applications…………………..3 OR
AGEC 210 [NP] Elements of Agricultural Economics…………………..3 OR
AGEC 200 [2] Agricultural Accounting and Analysis…………………..3

IV. Elective Courses - Complete 8 units
CHEM 101 [NP] General Chemistry 1……………………………………5 OR
CHEM 143 [NP] Introductory College Chemistry…………………...5 OR
CHEM 144 [NP] Fundamentals of Organic and Biochemistry……4-5
MICRO 101 [NP] Microbiology…………………………………………4
AG 285 [1,2] Agricultural Communications…………………………..3
FDP 200 [1] Basic Food Processing………………………………………3
FDP 379-387 [1] Select course in consultation with advisor…………1-2

TOTAL UNITS IN A.S. MAJOR ........................................................................ 30
Agriculture - Sales, Service Program

The student will learn step-by-step sales techniques, stage presence, self-evaluation of voice, habits, abilities in sales, and understanding of sales career. This program will help students make decisions as to whether or not they are qualified in sales, and prepare them for a sales career if they choose that vocation. Contact the division office in the Agriculture Building for advising assistance.

Certificate:

Agriculture - Sales, Service Technician

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>[1]</td>
<td>Introduction to Agricultural Education and Careers</td>
</tr>
<tr>
<td>AG 349A-D</td>
<td>[NP]</td>
<td>Work Experience (for a total of 4 units) OR</td>
</tr>
<tr>
<td>AG 249</td>
<td>[NP]</td>
<td>Agriculture Internship</td>
</tr>
</tbody>
</table>

II. Agriculture Science Breadth Courses - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>[NP]</td>
<td>Introduction to Plant Science</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>[NP]</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>NR 200</td>
<td>[NP]</td>
<td>Soils</td>
</tr>
<tr>
<td>AGM 200</td>
<td>[NP]</td>
<td>Introduction to Mechanical Technology</td>
</tr>
</tbody>
</table>

III. Major Required Courses - Complete 18 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 200</td>
<td>[2]</td>
<td>Agriculture Accounting &amp; Analysis</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>[1,2]</td>
<td>Elements of Agricultural Economics</td>
</tr>
<tr>
<td>AGEC 215</td>
<td>[3,4]</td>
<td>Agricultural Marketing</td>
</tr>
<tr>
<td>AGEC 280</td>
<td>[NP]</td>
<td>Agricultural Sales and Service</td>
</tr>
<tr>
<td>SPCOM 100</td>
<td>[NP]</td>
<td>Fund of Public Speaking OR</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>[NP]</td>
<td>Introduction to Human Communication</td>
</tr>
<tr>
<td>AG 285</td>
<td>[1,2]</td>
<td>Agricultural Communications</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ...................................................... 32

A.S. Degree: Agriculture - Sales, Service

* To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Courses - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>[1]</td>
<td>Introduction to Agricultural Education and Careers</td>
</tr>
<tr>
<td>AG 349A-D</td>
<td>[NP]</td>
<td>Work Experience (for a total of 4 units) OR</td>
</tr>
<tr>
<td>AG 249</td>
<td>[NP]</td>
<td>Agriculture Internship</td>
</tr>
</tbody>
</table>

II. Agriculture Science Breadth Courses - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>[NP]</td>
<td>Introduction to Plant Science</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>[NP]</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>NR 200</td>
<td>[NP]</td>
<td>Soils</td>
</tr>
<tr>
<td>AGM 200</td>
<td>[NP]</td>
<td>Introduction to Mechanical Technology</td>
</tr>
</tbody>
</table>

III. Major Required Courses - Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 200</td>
<td>[2-4]</td>
<td>Agriculture Accounting &amp; Analysis</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>[NP]</td>
<td>Elements of Agricultural Economics</td>
</tr>
<tr>
<td>AGEC 215</td>
<td>[NP]</td>
<td>Agricultural Marketing</td>
</tr>
<tr>
<td>AGEC 280</td>
<td>[1,2]</td>
<td>Agricultural Sales and Service</td>
</tr>
</tbody>
</table>

IV. Elective Courses - Complete 4 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 280</td>
<td>[NP]</td>
<td>Agricultural Computations</td>
</tr>
<tr>
<td>AG 285</td>
<td>[NP]</td>
<td>Agricultural Communications</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>[1]</td>
<td>Agriculture Computer Applications</td>
</tr>
<tr>
<td>SPCOM 100</td>
<td>[NP]</td>
<td>Fundamentals of Public Speaking</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>[NP]</td>
<td>Introduction to Human Communication</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR ...................................................... 30

Animal Science Program

A.S. Degree: Animal Science

* To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Courses - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>[1]</td>
<td>Introduction to Agricultural Education and Careers</td>
</tr>
<tr>
<td>AG 349A-D</td>
<td>[NP]</td>
<td>Work Experience (for a total of 4 units) OR</td>
</tr>
<tr>
<td>AG 249</td>
<td>[NP]</td>
<td>Agriculture Internship</td>
</tr>
</tbody>
</table>

II. Agriculture Science Breadth Courses - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>[NP]</td>
<td>Introduction to Plant Science</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>[NP]</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>NR 200</td>
<td>[NP]</td>
<td>Soils</td>
</tr>
<tr>
<td>AGM 200</td>
<td>[NP]</td>
<td>Introduction to Mechanical Technology</td>
</tr>
</tbody>
</table>

III. Major Required Courses - Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 200</td>
<td>[1]</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>ANSC 201</td>
<td>[NP]</td>
<td>Beef Cattle Science</td>
</tr>
<tr>
<td>ANSC 202</td>
<td>[NP]</td>
<td>Swine Science</td>
</tr>
<tr>
<td>ANSC 203</td>
<td>[NP]</td>
<td>Sheep Science</td>
</tr>
<tr>
<td>ANSC 207</td>
<td>[NP]</td>
<td>Equine Science</td>
</tr>
<tr>
<td>ANSC 210</td>
<td>[1]</td>
<td>Livestock Selection &amp; Evaluation</td>
</tr>
<tr>
<td>ANSC 211</td>
<td>[3,4]</td>
<td>Meat Science</td>
</tr>
<tr>
<td>ANSC 214</td>
<td>[NP]</td>
<td>Livestock, Feeding &amp; Nutrition</td>
</tr>
</tbody>
</table>

IV. Elective Courses - Complete 4 units

Any 200 level Animal Science class not listed above [NP] |
Any Agriculture class not used in Area II. for breadth core [NP] |
Any Animal Science class not used in Area III. for major core [NP] |
No more than two units of 300 level Agriculture classes [NP] |

TOTAL UNITS IN A.S. MAJOR ...................................................... 30

Continued
Artificial Insemination Program

The student will develop skills and knowledge sufficient enough to collect bull semen, artificially inseminate cows, and to evaluate pedigrees. The student will also develop skills in basic salesmanship. Contact the division office in the Agriculture Building for advising assistance.

Certificate: Artificial Insemination Technician

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers.......................... 1
AG 349A-D [NP] Work Experience............................................................................. 4 OR
AG 249 [NP] Agriculture Internship............................................................4

II. Agriculture Science Breadth Courses - Complete 9 units
AG 376 [NP] Basic Science & Lab Techniques......................................................3
AGEC 200 [2,3,4] Agricultural Accounting & Analysis....................................3
AGEC 280 [NP] Agricultural Sales & Services.............................................3

III. Major Required Courses - Complete 13 units
ANSC 201 [NP] Beef Cattle Science..................................................................3
ANSC 217 [NP] Advanced Breeding & Artificial Insemination..........................4
ANSC 226 [NP] Dairy Breeding & Selection....................................................3 OR
ANSC 216 [NP] Livestock Breeding & Selection................................................3

IV. Elective Courses - Complete 3 units
ANSC 224 [NP] Dairy Feeds & Feeding............................................................3 OR
ANSC 214 [NP] Livestock Feeding & Nutrition..................................................3

TOTAL UNITS FOR CERTIFICATE ........................................................................ 30

Commercial Floristry Program

The Commercial Floristry Program prepares students to enter the field of Floral Design and Flower Shop Management. The program is designed to provide entry level skills, and further, to prepare students for advancement within this ever-changing and dynamic industry.

Certificate: Commercial Floristry Technician

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Core - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers.......................... 1
AG 349A-D [NP] Work Experience............................................................................. 4 OR
AG 249 [NP] Agriculture Internship............................................................4

II. Agriculture Science Breadth Core - Complete 9 units
PLSC 200 [1] Introduction to Plant Science.................................................................3
NR 200 [NP] Soils............................................................................................................4
AGM 200 [2,3,4] Introduction to Mechanical Technology........................................3

III. Agriculture Major Courses - Complete 27 units
EHS 201 [1,2] Plant Materials and Usage..............................................................3
EHS 210 [1] Introduction to Environmental Horticulture....................................3
EHS 212 [2,3,4] Floriculture Crop Production.........................................................3
EHS 280 [1] Beginning Floral Design.................................................................3
EHS 281 [2,3,4] Advanced Floral Design...............................................................3
EHS 282 [3,4] Floral Shop Management.................................................................4
EHS 383 [1,2] Commercial Floristry Production....................................................3
SPCOM 102 [1] Introduction to Human Communication...................................3
BUSAD 259 [NP] Small Business Management................................................3
PLSC 255 [NP] Plant Pest Control.................................................................3

TOTAL UNITS FOR CERTIFICATE ........................................................................ 41

Crop Science Program

The student acquires skills in production of the common row and field crops grown in the Central Valley. Specific skills are emphasized in seedbed preparation, planting, fertilizing, weed control, pest management, harvesting, and marketing. Training leads to farming as well as employment in allied businesses such as fertilizer or agricultural chemical companies, seed companies, processing companies, and other related industries. Contact the division office in the Agriculture Building for advising assistance.

A.S. Degree: Crop Science

* To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Core - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers.......................... 1
AG 349A-D [NP] Work Experience............................................................................. 4 OR
AG 249 [NP] Agriculture Internship............................................................4

II. Agriculture Science Breadth Core - Complete 9 units
ANSC 200 [2,3,4] Introduction to Animal Science..................................................3
NR 200 [2] Soils............................................................................................................4
AGM 200 [2,3,4] Introduction to Mechanical Technology........................................3
AGEC 225 [2,3,4] Agriculture Computer Applications........................................3 OR
AGEC 210 [2,3,4] Elements of Agriculture Economics.........................................3 OR
AGEC 200 [2,3,4] Agriculture Accounting and Analysis..................................3

III. Agriculture Major Courses - Complete 9 units
PLSC 200 [1] Introduction to Plant Science.................................................................3
PLSC 215 [1] Vegetable Crops................................................................................4

IV. Agriculture Major Electives - Complete 7 units
AG 280 [1] Agricultural Calculations.................................................................3
AGM 220 [2,3,4] Farm Machinery...........................................................................3
AGM 235 [2,3,4] Irrigation and Drainage.................................................................3
PLSC 260 [2,3,4] Plant Disease Control.................................................................3
PLSC 380 [2,3,4] Weed Control...............................................................................2

TOTAL UNITS IN A.S. MAJOR ........................................................................ 30
Dairy Industry Program

This program will develop skills and knowledge to work in the dairy industry or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

Certificate: Dairy Industry Technician

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 2 units
AG 349B [NP] Dairy Processing Work Experience………………………………………2

II. Agriculture Breadth Courses - Complete 12 units
DAIND 301 [NP] Good Management Practices/Sanitation……………………………………1
DAIND 302 [NP] Fluid Stream………………………………………………………………………1
DAIND 303 [NP] Industrial Safety……………………………………………………………………1
DAIND 304 [NP] Sensory Evaluation & Grading…………………………………………………1
DAIND 305 [NP] Food Safety/HACCP……………………………………………………………1
DAIND 306 [NP] Dairy Industry Employability Skills……………………………………………1
DAIND 307 [NP] Process Equipment & Engineering……………………………………………1
DAIND 308 [NP] Laboratory Skills…………………………………………………………………1
DAIND 309 [NP] Dairy Products & Marketing……………………………………………………1
DAIND 310 [NP] Transportation of Dairy Products……………………………………………1
DAIND 311 [NP] Cheese and Whey Processing…………………………………………………1
DAIND 312 [NP] Warehousing/Dry & Refrigerated……………………………………………1

III. Agriculture Major Elective Units - Complete 3 units
AGEC 225 [NP] Agriculture Computer Applications……………………………………3

TOTAL UNITS FOR CERTIFICATE ……………………………………………………………. 17

A.S. Degree: Dairy Industry

The student may earn an Associate in Science degree in Dairy Industry by completing the coursework below and completing the MJC Associate Degree Requirements.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers…………………1
AG 349 A-D [NP] Work Experience……………………………………………………………4 OR
AG 249 [NP] Agriculture Internship……………………………………………………………4

II. Agriculture Science Breadth Courses - Complete 9 units
ANSC 220 [NP] Introduction to Animal Science………………………………………………3
PLSC 200 [NP] Introduction to Plant Science…………………………………………………3
NR 200 [NP] Soils……………………………………………………………………………………..4
AGM 200 [NP] Introduction to Mechanical Technology……………………………………3
AGEC 225 [NP] Agriculture Computer Applications……………………………………3 OR
AGEC 210 [NP] Elements of Agriculture Economics………………………………………3 OR
AGEC 200 [2,3,4] Agriculture Accounting & Analysis…………………………………3

III. Agriculture Major Courses - Complete 12 units
DAIND 308 [NP] Laboratory Skills………………………………………………………………1
DAIND 309 [NP] Dairy Products & Marketing……………………………………………………1
DAIND 310 [NP] Transportation of Dairy Products……………………………………………1
DAIND 311 [NP] Cheese and Whey Processing…………………………………………………1
DAIND 312 [NP] Warehousing/Dry & Refrigerated……………………………………………1

IV. Agriculture Major Electives - Complete 4 units
ANSC 222 [NP] Milk Production & Technology………………………………………………3

TOTAL UNITS IN A.S. MAJOR ………………………………………………………………….. 30

Dairy Science Program

A.S. Degree: Dairy Science

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers…………………1
AG 349 A-D [NP] Work Experience……………………………………………………………4 OR
AG 249 [NP] Agriculture Internship……………………………………………………………4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [NP] Introduction to Plant Science…………………………………………………3
NR 200 [NP] Soils……………………………………………………………………………………..4
AGM 200 [NP] Introduction to Mechanical Technology……………………………………3
AGEC 225 [NP] Agriculture Computer Applications……………………………………3 OR
AGEC 210 [NP] Elements of Agriculture Economics………………………………………3 OR
AGEC 200 [2,3,4] Agriculture Accounting & Analysis…………………………………3

III. Agriculture Major Courses - Complete 9 units
ANSC 221 [NP] Dairy Cattle Selection & Evaluation………………………………………3
ANSC 224 [NP] Dairy Feeds & Feeding……………………………………………………………3
ANSC 226 [NP] Dairy Breeding & Selection…………………………………………………3

IV. Agriculture Major Electives - Complete 7 units
ANSC 215 [NP] Animal Health and Sanitation………………………………………………3
ANSC 217 [NP] Advanced Breeding & Artificial Insemination…………………………4
ANSC 222 [NP] Milk Production & Technology………………………………………………3
ANSC 227 [NP] Advanced Dairy Cattle Selection and Evaluation…………………3
ANSC 228 [NP] Dairy Management……………………………………………………………3

ANY 200 SERIES AGRICULTURE COURSE NOT TAKEN ABOVE ………………………………………1 UNIT MAXIMUM FROM ANY 300 SERIES AGRICULTURE COURSE………………1

TOTAL UNITS IN A.S. MAJOR ………………………………………………………………….. 30

Continued...
Programs in Agricultural & Environmental Sciences

Environmental Horticultural Science Program

A.S. Degree: Environmental Horticultural Science

To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Core – Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>AG 115</td>
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<tr>
<td>AG 349-D</td>
<td>[NP]</td>
</tr>
<tr>
<td>AG 249</td>
<td>[NP]</td>
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II. Agriculture Science Breadth Core – Complete 6 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANSC 200</td>
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</tr>
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</tr>
<tr>
<td>AGM 200</td>
<td>[1]</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>[1,2]</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>[1]</td>
</tr>
<tr>
<td>AGEC 200</td>
<td>[2,3]</td>
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III. Agriculture Major Courses – Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
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IV. Agriculture Major Electives – Complete 7 units

<table>
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<td>EHS 281</td>
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<tr>
<td>PLSC 255</td>
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<tr>
<td>PLSC 260</td>
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TOTAL UNITS IN A.S. MAJOR ............................................. 30

Food Processing Program

Certificate: Food Processing

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AG 115</td>
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II. Agriculture Science Breadth Courses - Complete 9 units

<table>
<thead>
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<tbody>
<tr>
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<td>[1,2]</td>
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<td>[1,2]</td>
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<tr>
<td>AGEC 200</td>
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III. Agriculture Major Courses - Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>AG 376</td>
<td>[2,3]</td>
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<tr>
<td>FDP 300</td>
<td>[NP]</td>
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</table>

* Work experience internship must be associated with food processing industry.

II. Agriculture Science Breadth Courses - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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A.S. Degree: Food Processing

I. Agriculture Career Courses - Complete 5 units

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A.S. Degree: Food Processing

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A.S. Degree: Food Processing

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<tr>
<td>AG 349 A-D*</td>
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II. Agriculture Science Breadth Courses - Complete 9 units

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III. Agriculture Major Courses - Complete 10 units

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<td>AG 376</td>
<td>[2,3]</td>
</tr>
<tr>
<td>FDP 300</td>
<td>[NP]</td>
</tr>
</tbody>
</table>

* Work experience internship must be associated with food processing industry.
Forestry Program

This program will develop entry level job skills and knowledge in natural resources. The student will develop skills in timber cruising, log scaling, fire fighting, forest inventory, and use of aerial photos sufficient to obtain entry level employment or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

Certificate: Forestry

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. Agriculture Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers ............................................... 1
AG 349 A-D [NP] Work Experience ............................................................................................... 4 OR
AG 249 [NP] Agriculture Internship ......................................................................................... 4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [1] Introduction to Plant Science ................................................................................. 3
ANSC 200 [1,2] Introduction to Animal Science .............................................................................. 3
NR 200 [1,2] Soils ............................................................................................................................ 4
AGM 200 [NP] Introduction to Mechanical Technology ............................................................... 3
AGEC 225 [NP] Agriculture Computer Applications ..................................................................... 3 OR
AGEC 210 [NP] Elements of Agriculture Economics ................................................................. 3 OR
AGEC 200 [NP] Agriculture Accounting and Analysis ............................................................... 3

III. Agriculture Major Courses - Complete 15 units
NR 220 [1] Introductory Forestry ................................................................................................... 3
NR 222 [2,3] Native Tree & Shrub Identification ............................................................................. 3
NR 379 [3] Wildland Fire Control .................................................................................................. 1
NR 380 [4] Log Scaling ................................................................................................................... 1
ENSCI 109 [4] Introduction to Geographic Information Systems .................................................. 3

IV. Agriculture Major Electives - Complete 6 units
Any Natural Resources, Agriculture Economics or Plant Science courses not listed or used above .................................................................................................................. 3
AG 280 [NP] Agriculture Computations ..................................................................................... 3
AG 230 [NP] Field Surveying ........................................................................................................ 3
AG 285 [NP] Agricultural Communications ................................................................................ 3
AGM 215 [NP] Farm Tractors ........................................................................................................ 3
EHS 276 [NP] Park & Landscape Maintenance ............................................................................ 3

TOTAL UNITS FOR CERTIFICATE .................................................................................. 35

A.S. Degree: Forestry

* To obtain an Associate in Science Degree, the student must complete 5 career Required Units, 9 breadth Required Units, 12 major Required Units and 4 Elective Units for a total of 30 units and meet the MJC Associate Degree Requirements.

I. Forestry Career Courses - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers ............................................... 1
AG 349 A-D [NP] Work Experience ............................................................................................... 4 OR
AG 249 [NP] Agriculture Internship ......................................................................................... 4

II. Agriculture Science Breadth Courses - Complete 9 units
PLSC 200 [1,2] Introduction to Plant Science ................................................................................. 3
NR 200 [1,2] Soils ............................................................................................................................ 4
AGM 200 [NP] Introduction to Mechanical Technology ............................................................... 3
AGEC 225 [NP] Agriculture Computer Applications ..................................................................... 3 OR
AGEC 210 [NP] Elements of Agriculture Economics ................................................................. 3 OR
AGEC 200 [NP] Agriculture Accounting and Analysis ............................................................... 3

III. Forestry Major Courses - Complete 12 units
NR 220 [1] Introduction to Forestry ............................................................................................... 3
NR 222 [2,3] Native Tree & Shrub Identification ............................................................................. 3
ENSCI 109 [4] Introduction to Geographic Information Systems .................................................. 3

IV. Forestry Major Electives - Complete 4 units
Any Natural Resources, Agriculture Economics or Plant Science courses not listed or used above .................................................................................................................. 3
AG 280 [NP] Agriculture Computations ..................................................................................... 3
AG 230 [NP] Field Surveying ........................................................................................................ 3
AG 285 [NP] Agricultural Communications ................................................................................ 3
AGM 215 [NP] Farm Tractors ........................................................................................................ 3

TOTAL UNITS IN A.S. MAJOR .................................................................................. 30

Continued
Programs in Agricultural & Environmental Sciences

**Fruit Science Program**

The student will develop skills and knowledge in managing a horticultural fruit production operation. Training in this course includes practical horticultural skills such as propagation, pruning, thinning, planting, and management skills, such as supervision of labor, selecting insurance, credit, orchard planning, spray programs, and calendar of operation. The program also prepares students for transfer to a four-year college. Contact the division office in the Agriculture Building for advising assistance.

**A.S. Degree: Fruit Science**

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

**I. Agriculture Career Courses - Complete 5 units**
- AG 115 [1] Introduction to Agricultural Education and Careers......1
- AG 349A-D [NP] Work Experience...........................................4 OR
- AG 249 [NP] Agriculture Internship.........................................4

**II. Agriculture Science Breadth Courses - Complete 9 units**
- ANSC 200 [1,2] Introduction to Animal Science.........................3
- NR 200 [3,4] Soils .................................................................4
- AGM 200 [1,2] Introduction to Mechanical Technology..................3
- AGE 225 [1,2] Agriculture Computer Applications .......................3 OR
- AGE 210 [1,2] Elements of Agriculture Economics .....................3 OR
- AGE 200 [1,2] Agriculture Accounting and Analysis....................3

**III. Agriculture Major Courses - Complete 9 units**
- Complete 3 units
  - PLSC 230 [1,2] Fruit Science .................................................3
- Complete 6 units
  - PLSC 241 [3,4] Viticulture ...................................................3
  - PLSC 255 [3,4] Plant Pest Control ..........................................3
  - PLSC 200 [1,2] Introduction to Plant Science .........................3
  - PLSC 260 [3,4] Plant Disease Control ....................................3

**IV. Agriculture Major Electives - Complete 7 units**
- PLSC 235 [3,4] Plant Propagation/Production Planting & Varieties..................................................3
- PLSC 250 [3,4] Plant Nutrition and Fertilizers ............................3
- AGM 235 [3,4] Irrigation and Drainage ......................................3

ANY CLASS NOT ALREADY TAKEN IN AREA III

TOTAL UNITS IN A.S. MAJOR ................................................. 30

**Certificate: Landscape and Park Maintenance**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**I. Agriculture Career Required Units - Complete 5 units**
- AG 115 [1] Introduction to Agricultural Education and Careers......1
- AG 349A-D [NP] Work Experience...........................................4 OR
- AG 249 [NP] Agriculture Internship.........................................4

**II. Agriculture Breadth Core Units - Complete 9 units**
- AGM 200 [NP] Introduction to Mechanical Technology................3
- NR 200 [NP] Soils .................................................................4
- PLSC 200 [1] Introduction to Plant Science ..............................3
- AGE 225 [NP] Agriculture Computer Applications......................3

**III. Agriculture Major Courses - Complete 21 units**
- EHS 201 [1,2] Plant Materials and Usage .................................3
- EHS 202 [1,2] Plant Materials and Usage 2 ..............................3
- EHS 210 [1] Introduction to Environmental Horticulture ............3
- EHS 220 [2,3,4] Turfgrass Management ..................................2
- EHS 276 [1] Landscape Maintenance ......................................3
- EHS 278 [2,3,4] Landscape Construction and Installation ............3
- EHS 215 [3,4] Landscape Design ............................................3
- AGM 222 [1] Ornamental Horticulture Machinery .....................1

**IV. Agriculture Major Electives - Complete 7 units**
- AG 280 [NP] Agricultural Computations ..................................3
- AG 285 [NP] Agricultural Communications ............................3
- AGE 280 [2,3,4] Agricultural Sales and Service ........................3
- AGM 230 [3,4] Field Surveying ..............................................2
- NR 230 [2,3] Recreational Land Management ............................3
- AGM 215 [2,3] Farm Tractors ..................................................2
- EHS 250 [3,4] Landscape Irrigation .........................................3
- PLSC 250 [3,4] Plant Nutrition and Fertilizers .........................3
- PLSC 255 [3,4] Plant Pest Control ..........................................3

TOTAL UNITS FOR CERTIFICATE ............................................. 42

**Landscape Design Program**

The Landscape Design technician program prepares students to enter the field of landscape design at the entry level. The program is for students interested in learning the more pragmatic and applications aspect of landscaping and is directed to the application of established scientific and engineering knowledge and methods.

**Certificate:**

**Landscape Architecture/Landscape Design**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - Complete 30 units**
- NR 200 [2] Soils .................................................................4

Continued 0
**ELECTIVE COURSES** - Complete 16 units

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Introduction to Engineering &amp; Architecture</td>
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</tr>
<tr>
<td>AG 115</td>
<td>Introduction to Agricultural Education and Careers</td>
<td>1</td>
</tr>
<tr>
<td>ARCH 131</td>
<td>Architectural Drafting 1</td>
<td>4 OR</td>
</tr>
<tr>
<td>ARCH 331</td>
<td>Basic Architectural Drafting 1</td>
<td>2</td>
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Complete 15 units from list below:

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EHS 276</td>
<td>Landscape Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>EHS 278</td>
<td>Landscape Construction and Installation</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 106</td>
<td>Materials of Construction</td>
<td>2 OR</td>
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<tr>
<td>ARCH 107</td>
<td>Materials of Construction Lab</td>
<td>1</td>
</tr>
<tr>
<td>NR 222</td>
<td>Native Tree &amp; Shrub Identification</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 152</td>
<td>Architectural Design 1</td>
<td>4</td>
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<td>AGM 230</td>
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<tr>
<td>ENGT 210</td>
<td>Introduction to CAD</td>
<td>1</td>
</tr>
<tr>
<td>BOT 110</td>
<td>Plant Biology</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 201</td>
<td>General Computer Literacy</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>Agriculture Computer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .......................................................... 46-47

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**Mechanized Agriculture Program**

In this program, students will develop skills and knowledge to enter the mechanized agriculture field. Contact the division office in the Agriculture Building for advising assistance.

**Certificate: Mechanized Agriculture Technician**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**I. Agriculture Career Core** - Complete 5 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>Introduction to Agricultural Education and Careers</td>
<td>1</td>
</tr>
<tr>
<td>AG 249</td>
<td>Agriculture Internship</td>
<td>4</td>
</tr>
<tr>
<td>AG 349 A-D</td>
<td>Work Experience (for a total of 4 units)</td>
<td>4 OR</td>
</tr>
</tbody>
</table>

**II. Major Required Courses for Certificate** - Complete 13 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 200</td>
<td>Introduction to Mechanical Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGM 210</td>
<td>Agricultural Welding</td>
<td>3</td>
</tr>
<tr>
<td>AGM 215</td>
<td>Farm Tractors</td>
<td>2</td>
</tr>
<tr>
<td>AGM 241</td>
<td>Compact Diesel Engines</td>
<td>2</td>
</tr>
<tr>
<td>AGM 262</td>
<td>Hydraulics/Pneumatics</td>
<td>3</td>
</tr>
</tbody>
</table>

**III. Elective Courses for Certificate** - Complete 12 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 280</td>
<td>Agricultural Computations</td>
<td>3</td>
</tr>
<tr>
<td>AG 285</td>
<td>Agricultural Communications</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 280</td>
<td>Agricultural Sales &amp; Service</td>
<td>3</td>
</tr>
<tr>
<td>AGM 211</td>
<td>Advanced Agriculture Welding</td>
<td>3</td>
</tr>
<tr>
<td>AGM 214</td>
<td>Equipment Service and Safety</td>
<td>2</td>
</tr>
<tr>
<td>AGM 225</td>
<td>Residential &amp; Farmstead Electrical Wiring and Principles</td>
<td>3</td>
</tr>
<tr>
<td>AGM 230</td>
<td>Field Surveying</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .......................................................... 46-47

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**A.S. Degree: Mechanized Agriculture**

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

**I. Agriculture Career Core** - Complete 5 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>Introduction to Agricultural Education and Careers</td>
<td>1</td>
</tr>
<tr>
<td>AG 249</td>
<td>Agriculture Internship</td>
<td>4</td>
</tr>
<tr>
<td>AG 349 A-D</td>
<td>Work Experience (for a total of 4 units)</td>
<td>4 OR</td>
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</table>

**II. Agriculture Science Breadth Core** - Complete 9 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PLSC 200</td>
<td>Introduction to Plant Science</td>
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<tr>
<td>ANSC 200</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>4</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>Agriculture Computer Applications</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>Elements of Agricultural Economics</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 200</td>
<td>Agricultural Accounting and Analysis</td>
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**TOTAL UNITS IN A.S. MAJOR** .......................................................... 30

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**Fabrication Option**

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>AGM 200</td>
<td>Introduction to Mechanical Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGM 210</td>
<td>Agricultural Welding</td>
<td>3</td>
</tr>
<tr>
<td>AGM 262</td>
<td>Hydraulics/Pneumatics</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGM 280</td>
<td>Fluid Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGM 251</td>
<td>Farm Construction &amp; Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

**Power Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 200</td>
<td>Introduction to Mechanical Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGM 210</td>
<td>Agricultural Welding</td>
<td>3</td>
</tr>
<tr>
<td>AGM 215</td>
<td>Farm Tractors</td>
<td>2</td>
</tr>
<tr>
<td>AGM 240</td>
<td>Farm Power</td>
<td>3</td>
</tr>
<tr>
<td>AGM 262</td>
<td>Hydraulics/Pneumatics</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGM 280</td>
<td>Fluid Power Systems</td>
<td>3</td>
</tr>
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</table>

**IV. Agriculture Elective Courses** - Complete 4-5 units

<table>
<thead>
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<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 211</td>
<td>Advanced Agricultural Welding</td>
<td>3</td>
</tr>
<tr>
<td>AGM 214</td>
<td>Equipment Service and Safety</td>
<td>2</td>
</tr>
<tr>
<td>AGM 225</td>
<td>Residential &amp; Farmstead Electrical Wiring &amp; Principles</td>
<td>3</td>
</tr>
<tr>
<td>AGM 230</td>
<td>Field Surveying</td>
<td>2</td>
</tr>
<tr>
<td>AGM 241</td>
<td>Compact Diesel Engines</td>
<td>2</td>
</tr>
<tr>
<td>AGM 252</td>
<td>Farm Construction Advanced Lab</td>
<td>2</td>
</tr>
<tr>
<td>AGM 289</td>
<td>Principles of Power Mechanics (Small Engines)</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.S. MAJOR** .......................................................... 30

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*Continued*
Nursery Production Program

In this program, the student will develop skills relating to plant identification, propagation and growing for sale, operations and maintenance of plant nursery equipment and structures. Contact the division office in the Agriculture Building for advising assistance.

Certificate: Nursery Production

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**I. Agriculture Career Core** - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers ........................................ 1
AG 349A-D [NP] Work Experience ............................................................................. 4 OR
AG 249 [NP] Agronomy Internship ............................................................................ 4

**II. Agriculture Science Breadth Core** - Complete 9 units
PLSC 200 [NP] Introduction to Plant Science ................................................................. 3
ANSC 200 [NP] Introduction to Animal Science .............................................................. 3
NR 200 [NP] Soils ........................................................................................................... 4
AGM 200 [NP] Introduction to Mechanical Technology .............................................. 3 OR
AGEC 225 [NP] Agriculture Computer Applications ............................................... 3 OR
AGEC 210 [NP] Elements of Agriculture Economics ............................................... 3 OR
AGEC 200 [2,3,4] Agriculture Accounting and Analysis ............................................ 3 OR

**III. Agriculture Major Courses** - Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 230 [1]</td>
<td>Poultry Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 214 [NP]</td>
<td>Livestock Feeding and Nutrition</td>
<td>3 OR</td>
</tr>
<tr>
<td>ANSC 234 [NP]</td>
<td>Poultry Feeding</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 235 [2]</td>
<td>Poultry Diseases &amp; Housing</td>
<td>3 OR</td>
</tr>
<tr>
<td>ANSC 237 [3,4]</td>
<td>Poultry Management</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 220 [3,4]</td>
<td>Agriservices</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 232 [NP]</td>
<td>Avian Practices</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 236 [2]</td>
<td>Poultry Breeding and Selection</td>
<td>3</td>
</tr>
</tbody>
</table>

**IV. Agriculture Major Electives** - Complete 4 units

- ANY 200 LEVEL ANIMAL SCIENCE CLASS THAT IS NOT LISTED ABOVE
- ANY 200 LEVEL AGRICULTURE ECONOMICS CLASS NOT LISTED ABOVE
- ANY AGRICULTURE CLASS NOT USED IN AREA II. FOR BREADTH CORE
- NO MORE THAN TWO UNITS OF 300 LEVEL AGRICULTURE CLASSES

TOTAL UNITS IN A.S. MAJOR .................................................................................. 30

Recreational Land Management Program

Certificate: Recreational Land Management

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**I. Agriculture Career Core** - Complete 5 units
AG 115 [1] Introduction to Agricultural Education and Careers ........................................ 1
AG 349A-D [NP] Work Experience ............................................................................. 4 OR
AG 249 [NP] Agriculture Internship ............................................................................ 4

**II. Agriculture Science Breadth Core** - Complete 9 units
PLSC 200 [1,2] Introduction to Plant Science ................................................................. 3
ANSC 200 [1,2] Introduction to Animal Science .............................................................. 3
NR 200 [1,2] Soils ........................................................................................................... 3
AGEC 225 [NP] Agriculture Computer Applications ............................................... 3 OR
AGEC 210 [NP] Elements of Agricultural Economics ............................................... 3 OR
AGEC 200 [NP] Agriculture Accounting and Analysis ............................................ 3 OR

**III. Major Required Courses for Certificate** - Complete 9 units
NR 222 [2,3] Native Tree & Shrub Identification ............................................................ 3
NR 220 [1] Introductory Forestry ................................................................................. 3
NR 379 [NP] Wildland Fire Control .......................................................................... 1

Poultry Science Program

In this program the student will develop skills and knowledge sufficient to enter the poultry industry or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

**A.S. Degree: Poultry Science**

* To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.
IV. Elective Courses for Certificate - Complete 12 units
Any Natural Resources class not listed or used above
AG  280  [NP]  Agricultural Computations ........................................ 3
AGM 230  [NP]  Field Surveying .................................................. 3
AG  285  [NP]  Agricultural Communications .................................. 3
AGM 215  [NP]  Farm Tractors ..................................................... 2
EHS 276  [NP]  Landscape Maintenance ......................................... 3

TOTAL UNITS FOR CERTIFICATE ............................................... 35

A.S. Degree - Recreational Land Management
• To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Required - Complete 5 units
AG  115  [1]  Introduction to Agricultural Education and Careers .... 1
AG  349A-D  [NP]  Work Experience ........................................... 4 OR
AG  249  [NP]  Agriculture Internship ........................................... 4

II. Agriculture Science Breadth Required - Complete 9 units
PLSC  200  [1,2]  Introduction to Plant Science .................................... 3
NR  200  [1,2]  Soils ................................................................. 4
AGM 230  [NP]  Field Surveying .................................................. 2
AGEC 225  [NP]  Agriculture Computer Applications ...................... 3 OR
AGEC 210  [NP]  Elements of Agricultural Economics ...................... 3 OR
AGEC 200  [NP]  Agricultural Accounting and Analysis ................... 3

III. Agriculture Major Required - Complete 9 units
NR  230  [2]  Recreational Land Management ..................................... 3
NR  222  [2,3]  Native Tree & Shrub Identification ............................... 3
NR  220  [1]  Introduction to Forestry ............................................. 3

IV. Agriculture Major Elective - Complete 7 units
Any Natural Resources course not listed or used above.................. 3
EHS 276  [2]  Landscape Maintenance ............................................. 3
AG  280  [NP]  Agricultural Computations ..................................... 3
AGM 230  [NP]  Field Surveying .................................................. 2
AG  285  [NP]  Agricultural Communications .................................. 3
AGM 215  [NP]  Farm Tractors ..................................................... 2
HE  100  [4]  Standard First Aid/CPR ........................................... 1
AGM 222  [NP]  Ornamental Horticulture Machinery ........................ 1

TOTAL UNITS FOR MAJOR .................................................... 30

Soil Science Program

In this program the student will develop skills and knowledge for entry-level employment in fields of soil and water management. These fields may include conservation, analysis, survey and farm management, as well as related fields such as range management, hydrology, irrigation, drainage, fertilization, and rural and urban planning. This program will also prepare the student for transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

A.S. Degree: Soil Science
• To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

I. Agriculture Career Core - Complete 5 units
AG  115  [1]  Introduction to Agricultural Education and Careers .... 1
AG  349A-D  [NP]  Work Experience ........................................... 4 OR

II. Agriculture Science Breadth Core - Complete 9 units
PLSC  200  [1,2]  Introduction to Plant Science .................................... 3
ANSC  200  [1,2]  Introduction to Animal Science ............................... 3
AGM  200  [1,2]  Introduction to Mechanical Technology ...................... 3
AGEC 200  [3,4]  Agriculture Accounting and Analysis ........................ 3 OR
AGEC 210  [3,4]  Elements of Agriculture Economics ........................ 3 OR
AGEC 225  [3,4]  Agriculture Computer Applications ........................ 3

III. Agriculture Major Courses - Complete 9 units
Complete 4 units
NR  200  [1,2]  Soils ................................................................. 4
Complete 5 units
AGM 235  [3,4]  Irrigation & Drainage ............................................. 3
PLSC  250  [3,4]  Plant Nutrition & Fertilizers .................................... 3
PLSC  230  [1,2]  Fruit Science ....................................................... 3
PLSC  205  [1,2]  Field Crops ....................................................... 2
NR  220  [3,4]  Introductory Forestry ............................................. 3
PLSC  241  [3,4]  Viticulture ......................................................... 3

IV. Agriculture Major Electives - Complete 7 units
NR  222  [1,2]  Native Tree & Shrub Identification ............................... 3
EHS 210  [1,2]  Introduction to Environmental Horticulture ............... 3
PLSC  255  [3,4]  Plant Pest Control ................................................. 3
AGM  230  [1,2]  Field Surveying .................................................. 2
PLSC  260  [3,4]  Plant Disease Control ............................................ 3
AGGE 146  [3,4]  Agriculture, Environment & Society ........................ 3

Any course not already taken in Area III. above

TOTAL UNITS IN A.S. MAJOR .................................................. 30

Certificate: Veterinary Technician

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

Required Courses – Complete 17 units
ANSC  250  [2]  Veterinary Medical Terminology, Anatomy & Physiology ................. 3
ANSC  251  [3]  Veterinary Pharmacy Procedures ................................ 3
ANSC  253  [NP]  Veterinary Laboratory Procedures ............................ 1
ANSC  254  [4]  Veterinary Medical Office Procedures ......................... 3
ANSC  255  [3]  Preparation for Veterinary Surgical and Dental Assistance ........................................ 3
ANSC  256  [3]  Veterinary Assistance and Nursing: Emergency Procedures ........................................ 1

Elective Courses – (not required for certificate)
BIO  111  [NP]  General Biology .................................................. 4
ANSC  200  [NP]  Intro to Animal Science (Large animal oriented) .................. 3
ANSC  215  [NP]  Animal Health and Sanitation (Large animal oriented) ........... 3

TOTAL UNITS FOR CERTIFICATE ........................................... 17

• NOTE: To become a registered veterinary technician, students must meet specific requirements established by the AVMA (American Veterinary Medical Association). Please contact the MJC Agriculture Division office for advising.
I am...
a billboard model
a Mickey Mouse maniac
a fan of Frank Lloyd Wright

...I am MJC!

"This college offers a hands-on learning environment and the instructors are amazing. At MJC you get an education that you'll carry with you for the rest of your life."

Jimmy Ochoa
MJC Alumnus

Jimmy Ochoa is the son of immigrant parents and the first of their six children to attend college straight out of high school. In 2005 he achieved an AS degree in Architectural Engineering from MJC, and a larger than life photo of him in his cap and gown now graces the MJC billboard on Highway 99. However, Jimmy's pathway to graduation wasn't a "walk in the park." He had to carry three simultaneous part time jobs to pay for college, enjoying meet his work with autistic children. He had to spend four years working his way through Math 121, 122 and 171 and climbing the "language ladder" beginning with English 49 and working up to English 101. Jimmy idolizes Frank Lloyd Wright and dreams of becoming an architect who will one day design abstract and influential buildings. The accomplishment of which Jimmy is most proud is the role he played in implementing an information kiosk on MJC's West Campus. "We applied what we learned and were able to leave a legacy for future students." While architectural design classes were his favorite, Jimmy says he actually learned to love his Physics course. "It changed my whole perception of the world around me. I can never again look at a ball falling the same way after that class." While at MJC, he served as president and treasurer of the Architect Club, as a Student Ambassador and as a senator and treasurer for ASMJC. Jimmy admits these extra activities might have affected his GPA, but believes they allowed him to make a positive impact, while enriching his college life.
Educational Programs in

Allied Health

Dental Assisting Program

The Dental Assisting Program at Modesto Junior College prepares students to take the Dental Assisting National Board Examination (DANB) to become a Certified Dental Assistant (CDA) and the California State Board Examination, leading to Licensure as a Registered Dental Assistant (RDA). A Radiation Safety certificate is issued by Modesto Junior College. This program is accredited nationally by the American Dental Association’s Commission on Dental Accreditation, and on a state level by the Dental Board of California.

Program expenses vary for each individual. The estimated cost for the Dental Assisting Program is $1,350 per semester, which includes enrollment and materials fees, health clearance, uniforms, books, and licensure and certification examinations. If you would like information on Financial Aid, call 575-7700.

The Dental Assisting Program begins in the fall semester of each year. It is a full-time, 10-month program. An A.S. Degree in Dental Assisting is also available. For additional program information, contact Allied Health at 575-6362. For academic advising contact the Counseling Center, 575-6080.

Program Eligibility And Preparation

Admission to Modesto Junior College

High School Graduation or Equivalent (GED or College Degree)

If you have transcripts on file verifying a college degree, you do not need to have your high school transcripts on file.

Transcripts on File in the MJC Records Office

All transcripts (high school or equivalent and other colleges) must be on file in the MJC Records Office, prior to the Program application deadline. Records Office will accept hand-carried transcripts that are in a sealed envelope with a school seal.

Recommended Competencies

ENGL 49 [NP] Basic Composition and Reading (C or better) ....................... 5 OR

MATH 10 [NP] Introduction to Mathematics (C or better) ......................... 5 OR

READ 184 [NP] Critical Reading (C or better) ....................................................... 5 OR

Reading competency (12) on assessment test for Nursing and Allied Health students

Prerequisites

[None required]

PRIOR TO ENROLLING IN THE PROGRAM

Students are strongly advised to complete the following 2 non-dental assisting required courses prior to entering the Dental Assisting Program. These courses must be completed by the second semester of the Program with a grade of C or better in order to complete the Dental Assisting Program and be eligible to take the certification and licensure examinations.

ENGL 50 Basic Composition and Reading ......................................................... 5 OR

ENGL 101 Composition and Reading ................................................................. 3

PSYCH 51 Psychology in Everyday Life ............................................................. 3

Continued ©
Students are also strongly advised to complete a general computer literacy or beginning word processing course (recommended CMPSC 201 or OFADM 330) prior to entering the Program.

**PROGRAM APPLICATION**

Applications are available from Allied Health when the application period begins below:

**First Day of the Spring Semester - April 15**

Applications will continue to be accepted until the program is full or August 15.

**SELECTION PROCESS**

In the event there are more qualified applicants than spaces available in the program, a lottery system will be implemented to select the candidates.

**ADDITIONAL REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY**

Accepted applicants will receive a letter with a Health Clearance form and information regarding the Health Clearance and CPR Certification.

**Health Clearance**

§ A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

§ Documentation of required immunizations.

§ A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

**CPR Certification**

Basic Life Support that meets the standards of the American Heart Association or the American Red Cross. CPR certification must be valid throughout the Program.

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**Dental Assisting Requirements**

**Certificate: Dental Assisting**

**Required Courses (Non Dental Assisting)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 50</td>
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<tr>
<td>ENGL 101</td>
<td></td>
</tr>
<tr>
<td>PSYCH 51</td>
<td></td>
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</table>

**Required Courses (Dental Assisting)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>DTAST 360 [1]</td>
<td>Introduction to Dental Assisting .......................3</td>
</tr>
<tr>
<td>DTAST 362 [1]</td>
<td>Dental Science ...........................................3</td>
</tr>
<tr>
<td>DTAST 363 [1]</td>
<td>Introduction to Clinical Dentistry ....................2</td>
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<tr>
<td>DTAST 364 [1]</td>
<td>Dental Materials ..........................................2</td>
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<table>
<thead>
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<tr>
<td>DTAST 367 [2]</td>
<td>Expanded Functions .....................................2</td>
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<tr>
<td>DTAST 369 [2]</td>
<td>Clinical Dental Radiology ...........................3</td>
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<tr>
<td>DTAST 370 [2]</td>
<td>Clinical 1 ..............................................6</td>
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<table>
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</thead>
<tbody>
<tr>
<td>DTAST 371</td>
<td>Clinical 2 ...........................................1</td>
</tr>
</tbody>
</table>

**TOTAL UNITS REQUIRED FOR CERTIFICATE ..................38-40**
A.S. Degree: Dental Assisting

Complete the requirements for certificate, in addition to the MJC Associate Degree Requirements (as listed below).

Demonstrated competence in Reading and Mathematics.

Selected from the eligible courses listed in the MJC-GE pattern.

Activities ............................................. 2
Guidance .............................................. ½
Humanities ........................................... 3
Language and Rationale
  D.2. Communication and Analytical Thinking ............................................. 3
Natural Science ..................................... 3
Electives ............................................. (to bring total units to 60 for graduation)

[Health Education requirement is waived for Dental Assisting candidates.]

ADDITIONAL UNITS REQUIRED FOR A.S. DEGREE .................. 20-22

TOTAL UNITS REQUIRED FOR A.S. DEGREE ....................... 58-62

SCHOLASTIC REQUIREMENTS

Continuation in the Dental Assisting Program is dependent upon completion of all Program required courses with a C or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to meet certification requirements.

POLICY FOR DENIAL OF CERTIFICATION/LICENSURE

The Dental Board of California and the Dental Assisting National Board reserve the right to deny application of certification/licensure for specific crimes and/or actions. Anyone considering a career in dental assisting, who might be denied certification/licensure, is advised to discuss this issue with the respective Boards prior to entering the Dental Assisting Program.

Dental Assisting National Board, Inc.
676 N. St. Clair Street, Suite 1880
Chicago, Illinois 60611-9796
(800) 367-3262
www.danb.org

Dental Board of California
1432 Howe Avenue, Suite 85
Sacramento, CA 95825-3241
(916) 263-2300
dentalboard@dca.ca.gov

Medical Assisting Program

The Modesto Junior College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistant's Endowment (AAMAE).

Commission on Accreditation of Allied Health Education Programs
35 East Wacker Drive, Suite 1970
Chicago, IL 60601-2208
(312) 553-9355
www.caahep.org

This program prepares students to take the national certification exam offered by the AAMA to become a Certified Medical Assistant (CMA). Medical assisting students at MJC receive transferable college credit for coursework.

Many of the program graduates further their education by obtaining an A.S. Degree in Medical Assisting and/or Nursing.

The estimated program cost of $1800 includes a $26/unit enrollment fee, as well as materials, health clearance, uniform, books and certification exam expenses. Program cost at Modesto Junior College is very competitive with the cost of medical assisting programs offered by local trade schools. If you would like information on Financial Aid, call 575-7700.

The Medical Assisting Program begins in the fall semester of each year. It is a full-time, two-semester, certificate program offering training in administrative (front) and clinical (back office procedures. In addition to the reasonable cost of this program, students of Modesto Junior College have the added benefit of comprehensive student services. For additional program information, call Allied Health, 575-6362. For academic advising, contact Shirley Buzbee, Medical Assisting Program Director, 575-6377.

Program Eligibility And Preparation

Admission To Modesto Junior College
High School Graduation Or Equivalent (GED or College Degree)

If you have transcripts on file verifying a college degree, you do not need to have your high school transcripts on files.

Transcripts on File in the MJC Records Office

All transcripts (high school or equivalent and other colleges) must be on file in the MJC Records Office, prior to the Program application deadline. Records Office will accept hand-carried transcripts that are in a sealed envelope with a school seal.

Recommended Competencies

Students may complete these competencies in two ways; by completing courses indicated, or by showing indicated eligibilities listed by completing the MJC assessment process. If you need assessment testing, contact the Testing Center, 575-7728. Students who succeed in the Medical Assisting Program have typically met the following competencies:

**Computer Literacy**

| ENGLISH PLACEMENT | Eligibility for English 50 on assessment test .......... OR |
| ENGL 49 [NP]     | Basic Composition and Reading (C or better) .......... 5 |
| MATH PLACEMENT    | Eligibility for Math 70 on assessment test .......... OR |
Programs in Allied Health

MATH 20 [NP]  Pre-algebra (C or better) .................................................3
READING PLACEMENT  Reading competency (12) on Reading Assessment for Nursing and Allied Health Students .......... OR
READ 184 [NP]  Critical Reading (C or better) ........................................3

Prerequisites

PRIOR TO ENROLLING IN THE PROGRAM

Students are strongly advised to complete the following 3 non-medical assisting required courses prior to entering the Medical Assisting Program. These courses must be completed with a C or better by the 2nd semester of the Program in order to complete the Medical Assisting Program and be eligible to take the CMA exam.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 50</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 51 OR 101</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 100 OR 102 OR 130</td>
<td>3</td>
</tr>
</tbody>
</table>

PROGRAM APPLICATION

Applications are available from Allied Health during the application period listed below:

First day of the Spring Semester – April 15th

Applications will continue to be accepted until the Program is full or August 15th.

SELECTION PROCESS

In the event there are more qualified applicants than space available in the Program, a lottery system will be implemented to select the candidates.

REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applicants will receive a letter with a Health Clearance form and information regarding the Health Clearance, Criminal Background Check, and CPR Certification.

Health Clearance

§ A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

§ Documentation of required immunizations.

§ A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

Criminal Background Check

Students participating in externship assignments may be required to complete a criminal background check and be cleared by the externship site in order to participate in the Externship experience.

Drug Screening

All students participating in clinical assignments may be required by acute care hospitals to complete a drug screening process.

CPR Certification

Basic Life Support that meets the standards of the American Heart Association. CPR certification must remain valid throughout the Program.

Medical Assisting Requirements

Certificate: Medical Assisting

To earn a Certificate of Achievement, the student must complete the curriculum with a grade of C or better.

Required Courses (Non Medical Assisting)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 50</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 51 or 101</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 100 or 102 or 130</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses (Medical Assisting)

[Fall Semester]

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDAst 320 [1]</td>
<td>Introduction to Medical Assisting ..........3</td>
</tr>
<tr>
<td>MDAst 323</td>
<td>Medical Assisting Clinical Procedures ..........3</td>
</tr>
</tbody>
</table>

[Spring Semester]

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDAst 324 [2]</td>
<td>Introduction to Diseases and Pharmacology ..........4</td>
</tr>
<tr>
<td>MDAst 325 [2]</td>
<td>Laboratory Procedures ..................3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ........................................... 35½

Additional A.S. Degree Graduation Requirements

Demonstrated competence in Mathematics.
(Selected from the eligible courses listed in the MJC-GE pattern.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities</td>
<td>2</td>
</tr>
<tr>
<td>Guidance (1 course)</td>
<td>½</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Language and Rationale (D.1.)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives to bring total units to 60

[Health Education requirement is waived for Medical Assisting candidates.]

TOTAL UNITS IN A.S. DEGREE .................................................. 60

Scholastic Requirements

In order to be eligible for the National Certification Examination, all Program requirements must be completed with a grade of C or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to be eligible to take the AAMA Certification Exam.

Policy for Denial of Certification

Beginning with the January 2001 administration of the Certification Examination, felons are no longer eligible for the Certification Examination unless the American Association of Medical Assistants (AAMA) Certifying Board grants a waiver based on one or more of the mitigating circumstances listed in the Disciplinary Standards. Any student considering a career in medical assisting, who has a criminal record, is advised to contact the AAMA for advisement prior to entering the Medical Assisting Program.

American Association of Medical Assistants
20 N. Wacker Drive, Suite 1575
Chicago, IL 60606-2903
(800) 228-2262
www.aama-ntl.org

Continued Ô
Emergency Medical Technician (EMT) Program

EMS 390: Emergency Medical Technician (EMT) 1 prepares students for certification as an Emergency Medical Technician 1 in the State of California. This one semester, 4 unit, course is offered year round. EMT 390 is a comprehensive course that includes classroom instruction, laboratory, and clinical experience. Students are trained to provide emergency care (basic life support level) as an emergency medical service responder (police, fire, ambulance, ranger, rescue squad or industrial emergency operations.) Additional lab and clinical hours are required. Contact Allied Health for more information, 575-6362.

Course expenses vary for each individual. The estimated cost for EMS 390 is $250-450 that includes enrollment and materials fees, health clearance, books, and certification examination. For information on Financial Aid, call 575-7700.

Program Eligibility And Preparation

Admission to Modesto Junior College

High School

§ High school graduation or equivalent with transcripts on file in the MJC Records Office or
§ High school student, 16 years of age or older, with a minimum GPA of 3.0, verified by transcripts on file in the MJC Records Office

Transcripts on file in the MJC Records Office

Transcripts must be on file in the MJC Records Office prior to the first day of class.

Prerequisites

All of the prerequisites must be valid through the end of the course and the EMT certification examination.

EMS 350 First Responder with Healthcare Provider ........................................... 3 OR
HE 101 Emergency Response/ CPR FPR .................................................. 3 OR
CPR Healthcare Provider Level from the American Heart Association or
National Safety Council or Professional Rescuer Level from the
American Red Cross ..................................................AND
FIRST AID (Any level.)

EMT Requirements

Certificate: Emergency Medical Technician

To earn a Certificate of Achievement, the student must complete the following required course with a grade of C or better.

EMS 390 [NP] Emergency Medical Technician 1 ........................................... 6

TOTAL UNITS FOR CERTIFICATE: ..............................................................6

POLICY FOR DENIAL OF CERTIFICATION

The law provides for denial of certification for crimes or acts that may in any way be related to pre-hospital medical care i.e., sex crimes, drug crimes and crimes of violence or dishonesty. In such cases it is the applicant’s responsibility to present sufficient evidence of rehabilitation to the Mountain-Valley Emergency Medical Services Agency prior to applying for certification. The Mountain-Valley EMS Agency will evaluate applicants individually. Any student considering a career as an Emergency Medical Technician, who might be denied certification, is advised to address this issue with this Agency prior to taking this course.

Mountain-Valley Emergency Medical Services Agency
1101 Standiford Ave., Suite D1
Modesto, CA 95350
(209) 529-5085

Nursing: Nurse Assistant Program (CNA)

The Nurse Assistant Program at Modesto Junior College is a one-semester course (NURSE 40, 5.5 units) that includes 50 hours of classroom instruction and 100 hours of supervised clinical experience within the guidelines set by the State Department of Health Services. The Program is offered in the fall and spring semesters. After Satisfactory completion of the Program, students are eligible to take the certification examination to become a Certified Nurse Assistant (CNA). The exam has been developed to meet the evaluation requirements of federal and state nurse aid and competency evaluation legislation. Red Cross testing is available at MJC at the end of each class.

Program expenses vary for each individual. The estimated cost for the Nurse Assistant Program is $650 that includes books, enrollment, health clearance, fingerprinting, and certification examination and application fees. For financial aid information, call 575-7700. For inquiries about the program, call Allied Health, 575-6362.

Program Eligibility And Preparation

Admission to Modesto Junior College

High School Graduation or Equivalent (GED or College Degree)

Although high school graduation is not required, it is recommended for success.

Recommended Competencies

READING PLACEMENT: Reading competency (12) on Reading Assessment for Nursing and Allied Health students ................. OR
READ 184 [NP] Critical Reading (C or better) .............................................3

Prerequisites

[None]

PROGRAM APPLICATION

[None ]

Required Enrollment

NURSE 40: [1] Nurse Assistant .............................................5% AND
NURSK 800: [1] Nursing Skills Development ........................................0

Continued
REQUIREMENTS FOR STUDENTS ENROLLED IN NURSE 40

PLEASE NOTE: Students enrolled in NURSE 40 will be given all necessary forms and instruction on the first day of class.

Health Clearance

§ A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

§ Documentation of required immunizations.

§ A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

Fingerprinting And Criminal Background Check

All students participating in clinical assignments are required to complete a criminal background check and fingerprinting, and be cleared by the clinical facility in order to participate in the clinical experience. The cost for the fingerprinting and criminal background check is about $57.00.

Nurse Assistant Certification Application (HS-283B)

Nurse 40 students will receive required forms and instructions on completing the Department of Health Services application process.

POLICY FOR DENIAL OF CERTIFICATION

Individuals who have been convicted of certain penal code violations will not be certified unless the individual submits written evidence obtained from the court of “rehabilitation” (if a felony) or a dismissal of the violation (if a misdemeanor). If you have been convicted of one of these crimes, you should be aware that you cannot be certified unless you meet the specified conditions of rehabilitation or dismissal issued by the courts and have received approval from the Department of Health Services. All other convictions not listed, except minor traffic violations, are subject to department review and require that you submit additional information.

To request clearance for prior conviction(s) or disciplinary action, contact:
Department of Health Services
Licensing and Certification
ATCS MS 3201
P.O. Box 997416
Sacramento, CA 95899-7416
(916) 327-2445

CPR Certification

Current CPR certification is required for admission into the program. Certification must remain current throughout the program.

Vocational Nurse Program (LVN)

The MJC Vocational Nurse program will not be taking applications for new students during the 2006-2007 academic year. For the most current information about the LVN program, contact the Allied Health Division Office.

Nursing: Associate Degree Nursing Program (RN)

The Associate Degree Nursing (ADN) Program at Modesto Junior College prepares students to take the National Council Licensure Examination (NCLEX-RN), leading to licensure as a Registered Nurse (RN). The program is approved by the State of California.

The ADN Program begins in the fall and spring semesters of each year. It is a four-semester program. Although most classes are scheduled during the day, clinical experiences may include both morning and evening hours and weekends. During the five-week Preceptorship Program in NURSE 267, students will be expected to be in the clinical area on a full-time basis. Students must be flexible and prepared to accept these assignments.

Program expenses vary for each individual. The estimated cost of the ADN Program is $1,000 per semester, which includes enrollment fees, health clearance, lab kit, uniforms, books, and licensure examination. If you would like information on Financial Aid, call 575-7700. If you would like more information about the program and the selection process, please enroll in NURSE 115: Guidance for Nursing Majors. If you are just beginning your preparation for the nursing program and need academic advising, contact the Counseling Center (209) 575-6080.

Program Eligibility And Preparation

Admission to Modesto Junior College

High School Graduation or Equivalent (GED or College Degree)

If you have transcripts on file verifying a college degree, you do not need to have your high school transcripts on file.

Official Transcripts on File in the MJC Records Office

All transcripts (high school or equivalent and other colleges) must be on file in the MJC Records Office, prior to the Program application deadline. Records Office will accept hand-carried transcripts that are in a sealed envelope with a school seal.

Required Competencies

The two required competencies must be met by time of application.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 70 [NP]</td>
<td>5</td>
<td>Elementary Algebra (C or better)</td>
<td>3 AND</td>
</tr>
<tr>
<td>MATH 72 [NP]</td>
<td>3</td>
<td>Elementary Algebra 2 (C or better)</td>
<td></td>
</tr>
<tr>
<td>READ 184 [NP]</td>
<td>3</td>
<td>Critical Reading (C or better)</td>
<td>3 OR</td>
</tr>
</tbody>
</table>

Continued ᵉ
Prerequisites

The following 4 prerequisites must be completed with a grade on transcript by the application deadline. All courses must be completed with a grade of C or better. A 2.67 GPA is required for the core biology prerequisites (Anatomy 125, Physiology 101 and Microbiology 101).

- ANAT 125 ................................................................................. 4
  [Prerequisite: Completion of AP 50 or Biology 101 or Biology 111]
- MICRO 101 ............................................................................... 4
  [Prerequisite: Satisfactory completion of BIO 111 or BIO 101 or AP Biology score of 4 or 5 AND CHEM 143 or AP Chemistry score of 4 or 5]
- PHYS 101 .................................................................................... 4
  [Prerequisite: Completion of ANAT 125 and CHEM 143]
- ENGL 101 .................................................................................. 3
  [Prerequisite: Completion ENGL 50 or eligibility for ENGL 101 on assessment test]

PRIOR TO ENROLLING IN THE PROGRAM

Students are strongly advised to complete the following 3 non-nursing required courses and the 3 additional Associate Degree Requirements prior to entering the ADN Program. These courses must be completed by the 4th semester of the program with a grade of C or better in order to complete the ADN Program and be eligible to take the NCLEX-RN exam.

- PSYCH 101 .................................................................................. 3
- SOCIO 101 OR 125 OR 150 OR 154 OR 156 OR ANTHR 102 .......... 3
- SPCOM 100 OR 102 ..................................................................... 3

Activities ................................................................. 2
Guidance (NURSE 115 recommended) ........................................... ½
Humanities ........................................................................... 3
Health Education (Requirement has been waived for ADN Program)

PROGRAM APPLICATION

Applicants are available from Allied Health during the application periods listed below:

- Spring Application Period August 1 – September 30
- Fall Application Period February 1 – March 31

Applications must be received in Allied Health by the application deadlines listed below:

- Spring Semester Application Deadline September 30
- Fall Semester Application Deadline March 31

SELECTION PROCESS

Chancellor’s Model

The MJC ADN Program uses the California Community College Chancellor’s Model for selection of program applicants. The cut score for acceptance is 75. Randomized selection will be used to select students from the pool of all applicants with a score of 75 and above. The following four values are included in the selection formula for the Chancellor’s Model:

5 Core Biology GPA (Anatomy 125, Physiology 101, Microbiology 101)

The highest grade for the core biology courses (Anatomy 125, Physiology 101 and Microbiology 101) will be used. If a student is permitted to repeat a course for a grade improvement in which the student initially received a “C” or higher, the highest grade will be used to calculate the core biology GPA.

5 Core Biology Repetitions

The overall composite score is lowered for each repetition of the core biology coursework (NC, W, D and F). “C” grades will not be counted as repetitions.

Note:

The Chancellor's Model only penalizes students for repeats within 6 years of application to the program. NC, W, D and F grades in the core biology courses will not be counted as repeats if they are more than six years old.

Units in Residence

Priority will be given to applicants with 12 or more units completed or in progress at MJC and/or Columbia College.

Multiple Applications

If an applicant has applied to the program more than once, as a fully qualified applicant, the applicant’s name will be added to the lottery pool an additional time for each such application.

REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applicants will receive a letter with a Health Clearance form and information regarding the health clearance, criminal background check, CPR certification, and drug screening.

Health Clearance

5 A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

5 Documentation of required immunizations.

5 A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

Criminal Background Check

All students participating in clinical assignments are required by acute care hospitals to complete a criminal background check and be cleared by the clinical facility in order to participate in the clinical experience.

CPR Certification

The ADN Program will offer a Health Care Provider CPR class for all accepted applicants.

Drug Screening

All students participating in clinical assignments will be required to pass a drug screen.

Continued...
**Associate Degree Nursing**

**Program Requirements (for RN)**

**Prerequisites:**
- ENGL 101 ................................................................. 3
- ANAT 125 ................................................................. 4
- MICRO 101 ................................................................. 4
- PHYSO 101 ................................................................. 4

**Required Courses (Non Nursing)**
- PSYCH 101 ................................................................. 3
- SOCIO 101, OR 125, OR 150, OR 154, OR 156 OR ANTHR 102 ................................................................. 3
- SPCOM 100 OR 102 ................................................................. 3

**Required Courses (Nursing)**

[First Semester]

[Second Semester]

[Third Semester]
- NURSE 266 [3] Nursing Process: Mental Health .............................. 4

[Fourth Semester]

**Additional Associate Degree Requirements**

Selected from the MJC-GE Pattern.
- Activities ................................................................. 2
- Guidance (NURSE 115 recommended) ......................................... ½
- Humanities ............................................................... 3

*(Health Education requirement is waived for ADN candidates.)*

**TOTAL UNITS IN A.S. DEGREE** .................................................. 69½

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**SCHOLASTIC REQUIREMENTS**

Continuation in the ADN Program is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for the National Council Licensure Examination (NCLEX-RN).

**POLICY FOR DENIAL OF LICENSURE**

The California Board of Registered Nursing protects the public by screening applicants for licensure in order to identify potentially unsafe practitioners. Statutory authority for denial of licensure is set out in Business and Professions Code. Any student considering a career in nursing who has a criminal record is advised to contact the Board of Registered Nursing for advisement prior to entering the ADN Program.

**Board of Registered Nursing**

P.O. Box 944210
Sacramento, CA 94244-2100
(916) 322-3350

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**Nursing: LVN to ADN Upgrade Program (LVN to RN)**

The Licensed Vocational Nurse (LVN) to Associate Degree Nursing (ADN) Upgrade Program at Modesto Junior College prepares students to take the National Council Licensure Examination (NCLEX-RN), leading to licensure as a Registered Nurse (RN). The program is approved by the State of California. The LVN to ADN Upgrade Program begins in the fall and spring semesters of...
Program Eligibility And Preparation

Admission to Modesto Junior College

High School Graduation or equivalent (GED or College Degree)

If you have transcripts on file verifying a college degree, you do not need to have your high school transcripts on file.

Official Transcripts on Files in the MJC Records Office

All transcripts (high school or equivalent and other colleges) must be on file in the MJC Records Office, prior to the Program application deadlines. Records Office will accept hand-carried transcripts that are in a sealed envelope with a school seal.

REQUIRED COMPETENCIES

The two required competencies must be met by time of application.

MATH COMPETENCY: Eligibility for Math 90 on assessment test ............ OR
MATH 70 [NP] Elementary Algebra (C or better) .......................... 5 OR
MATH 71 [NP] Elementary Algebra 1 (C or better) ...................... 3 AND
MATH 72 [NP] Elementary Algebra 2 (C or better) ...................... 3

READING COMPETENCY: Reading competency (12) on Reading Assessment for Nursing and Allied Health students .......... OR
READ 184 [NP] Critical Reading (C or better) ............................ 3 OR

College degree from an accredited college.

Program Prerequisites

The following 8 prerequisites must be completed by the semester in which you apply to the program. These courses may be in progress at the time of application. Priority will be given to applicants who have completed these prerequisites with a grade on the transcript at time of application. All courses must be completed with a grade of C or better in order to complete the ADN Program and be eligible to take the NCLEX-RN exam.

ANAT 125 ................................................................. 4
[Prerequisite: Completion of AP 50 OR Biology 101 OR Biology 111]

MICRO 101 ............................................................... 4
[Prerequisite: Completion of CHEM 143 OR high school chemistry B or better]

PHYSO 101 ............................................................... 4
[Prerequisite: Completion of Anatomy 125 AND Chemistry 143]

ENGL 101 ................................................................. 3
[Prerequisite: Completion of English 50 OR eligibility for ENGL 101 on assessment test]

NURSE 259 ............................................................. 1
[Prerequisites: Must provide proof of licensure as an LVN in California. Completion of ADN Program prerequisites.]

PSYCH 101 ............................................................... 3

SOCIO 101 OR 125 OR 150 OR 154 OR 156 OR ANTHR 102 .................. 3
SPCOM 100 OR 102 .................................................. 3

Additional Associate Degree Requirements

Activities ................................................................. 2
Guidance ............................................................... ½
Humanities ............................................................ 3

[Health Education requirement has been waived for ADN candidates.]

PROGRAM APPLICATION

Applications are available from Allied Health during the application periods listed below:

Spring Application Period August 1 – September 30
Fall Application Period February – March 31

Applications must be received in Allied Health by the application deadlines listed below:

SPRING SEMESTER APPLICATION DEADLINE SEPTEMBER 30
FALL SEMESTER APPLICATION DEADLINE MARCH 31

SELECTION PROCESS

LVN to ADN Upgrade Program applicants are selected on a space-available basis. Priority is given to applicants who have completed program prerequisites with grades on transcript at time of application.

REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applicants will receive a letter with a Health Clearance form and information regarding the health clearance, criminal background check, CPR Certification, and drug screening.

Health Clearance

§ A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

§ Documentation of required immunizations.

§ A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

Criminal Background Check

All students participating in clinical assignments are required by acute care hospitals to complete a criminal background check and be cleared by the clinical facility in order to participate in the clinical experience.

CPR Certification

The ADN Program will offer a Health Care Provider CPR class for all accepted applicants.

Drug Screening

All students participating in clinical assignments will be required to pass a drug screen.

Written And Skills Proficiency Testing

In selected cases, both written and skills proficiency testing may be required.

Continued Ô
**LVN to ADN Upgrade Program Requirements**

**Prerequisites:**

- ANAT 125 Human Anatomy .......................... 4
- MICRO 101 Microbiology .......................... 4
- PHYSO 101 Introduction to Human Physiology ......... 4
- ENGL 101 Composition & Reading .................. 3
- NURSE 259 VN Transition: Preparing for a Changing Role ...... 1
- PSYCH 101 General Psychology ...................... 3
- SOCIO 125 Sociology of the Family .................. 3 OR
- SOCIO 150 Ethnicity & Culture in America ............ 3 OR
- SOCIO 154, African American Cultures & Communities .... 3 OR
- SOCIO 156 Mexican Cultures in the United States ...... 3 OR
- ANTHR 102 Cultural Anthropology ................... 3
- SPCOM 100 Fundamentals of Public Speaking .......... 3 OR
- SPCOM 102 Introduction to Human Communication ....... 3

**Required Courses (Nursing)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURSE 265 [1]</td>
<td>Nursing Process: Medical-Surgical</td>
</tr>
<tr>
<td>NURSE 266 [1]</td>
<td>Nursing Process: Mental Health</td>
</tr>
</tbody>
</table>

**Additional Associate Degree Requirements**

Selected from the approved courses listed on the MJC-GE Pattern.

**Activities**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>..........</td>
<td>2</td>
</tr>
</tbody>
</table>

**Guidance**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>..........</td>
<td>½</td>
</tr>
</tbody>
</table>

**Humanities**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<td>3</td>
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</tbody>
</table>

**TOTAL UNITS FOR THE LVN TO ADN UPGRADE PROGRAM ... 51 ½**

Notes: An applicant who became an LVN by challenging the LVN Board or through a program that was not accredited by the Western Association of Schools and Colleges must complete 30 college units in the nursing major and have a total of 60 college units in order to receive an A.S. Degree. Contact Allied Health for advising regarding this issue, (209) 575-6362.

**SCHOLASTIC REQUIREMENTS**

Continuation in the LVN to ADN Upgrade Program is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for the National Council Licensure Examination (NCLEX-RN).

**POLICY FOR DENIAL OF LICENSURE**

The California Board of Registered Nursing protects the public by screening applicants for licensure in order to identify potentially unsafe practitioners. Statutory authority for denial of licensure is set out in Business and Professions Code. Any student considering a career in nursing who has a criminal record is advised to contact the Board of Registered Nursing for advisement prior to entering the ADN Program.

**Nursing: LVN 30-Unit Option (LVN to RN)**

In addition to the LVN to ADN Upgrade Program, there is also a LVN 30-Unit Option which prepares students to take the NCLEX-RN examination, but does not award an A.S. Degree. Students interested in this option should contact the Director of Nursing in Allied Health for program information and advising.

**Respiratory Care Program**

The MJC Respiratory Care Program is a two-year Associate Degree Program to prepare students to sit for the State Board Respiratory Care Practitioner Exam. The program is fully accredited by the Committee on Accreditation for Respiratory Care (formerly known as the Joint Review Committee for Respiratory Therapy Education). Graduates are also eligible for both Certification and Registration administered by the National Board for Respiratory Care.

Program expenses vary for each individual. The estimated cost of the Respiratory Care Program is $800 per semester, which includes enrollment and materials fees, health clearance, uniforms, books, and licensure examination. If you would like information on Financial Aid, call (209) 575-7700.

The MJC Respiratory Care Program begins once a year in January. For additional Program information, contact Allied Health, 575-6362. For academic advising, contact the Respiratory Care Program Director in Allied Health at (209) 575-6381, the Clinical Director at (209) 575-6388, or the MJC Counseling Office at (209) 575-6080.

**Program Eligibility And Preparation**

**Admission To Modesto Junior College**

High school graduation or equivalent (GED or college degree) required.

High school graduation is highly recommended, but not required.

**Transcripts On File In The MJC Records Office**

All transcripts (high school or equivalent and other colleges) must be on file in the MJC Records Office prior to the Program application deadline. Records Office will accept hand-carried transcripts that are in a sealed envelope with a school seal.

**Recommended Competencies**

Students who have been successful in the Program have successfully completed or met the following recommended competencies.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 50</td>
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<td>Basic Composition and Reading</td>
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<tr>
<td>MATH 70</td>
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<td>Elementary Algebra</td>
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<tr>
<td>MATH 71</td>
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<tr>
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<td>Elementary Algebra 2</td>
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<td>MATH PLACEMENT</td>
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<td>Eligibility for Math 90 on assessment</td>
</tr>
<tr>
<td>READ 184</td>
<td>[NP]</td>
<td>Critical Reading</td>
</tr>
</tbody>
</table>
Note: All applicants must take the Reading Assessment unless they have transcripts on file verifying a degree from an accredited U.S. college.

Prerequisites
CHEM 143  Introductory College Chemistry ..................5 and
AP 150  Integrative Anatomy and Physiology (C or better) ..........4 OR
ANAT 125  Human Anatomy ........................................4 AND
PHYS 101  Introduction to Human Physiology ..................4

PRIOR TO ENROLLING IN THE PROGRAM
Students are strongly advised to complete the following non-respiratory care required courses and the 5 additional graduation requirements prior to entering the Program.

PSYCH 101  General Psychology ......................................3
MICRO 101  Microbiology .............................................4
Activities .................................................................2
Guidance ..................................................................1½
Humanities .............................................................3
Language & Rationale:
D.1.  English Composition:
ENGL 50  Basis Composition and Reading ..............5 OR
ENGL 101  Composition and Reading ..................3
D.2.  Communication and Analytical Thinking
(SPCOM 100 or 102 or 130 or CMPSC 201 recommended) ..........3

PROGRAM APPLICATION

Students who have met/completed the requirements above may complete and submit a Respiratory Care Program Application to Allied Health within the application period:

August 1 through November 15

SELECTION PROCESS

In order to be fully qualified for admission into the Program, applicants must have completed CHEM 143 and AP 150 with a grade of C on transcripts at time of application. Students who have one or both of the prerequisites in progress at time of application may be provisionally qualified for acceptance into the program based upon completing the prerequisites with a grade of C or better. On a space available basis, applicants who have completed CHEM 143 with a C or better, but have not completed the AP 150 prerequisite may enroll in RSCR 220 and AP 150 in the spring and if they pass both courses with a grade of C or better, they will be officially accepted into the program at the end of spring semester and will then enroll in RSCR 230 in the summer. In the event there are more qualified applicants than spaces available in the program, a lottery system will be implemented to select the candidates.

REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applicants will receive a letter with a Health Clearance form and information regarding the Health Clearance, Criminal Background Check, Drug Testing and CPR Certification.

HEALTH CLEARANCE

§ A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.

§ Documentation of required immunizations.

§ A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

Criminal Background Check

All students participating in clinical assignments are required by acute care hospitals to complete a criminal background check and be cleared by the clinical facility in order to participate in the clinical experience.

Drug Screening

All students participating in clinical assignments will be required to pass a drug screen.

CPR Certification

CPR certification is not required in advance. It is offered as part of RSCR 220: Introduction to Respiratory Care Principles.

Respiratory Care Program Requirements

(Including MJC Requirements for Associate Degree)

PREREQUISITES

CHEM 143 .................................................................5
AP 150 .................................................................4

REQUIRED COURSES (NON-RESPIRATORY CARE)

PSYCH 101  [1]  General Psychology .........................3
MICRO 101  [2]  Microbiology (Prerequisite to RSCR 242) .......4

REQUIRED COURSES (RESPIRATORY CARE)

[Spring]
RSCR 220  [1]  Introduction to Respiratory Care Principles ....5
RSCR 230  [1]  Clinical 1 ............................................1

[Fall]
RSCR 222  [2]  Basic Cardiopulmonary Anatomy & Physiology ...3
RSCR 224  [2]  Respiratory Care Theory 2 .........................5
RSCR 232  [2]  Clinical 2 ...........................................3½

[Spring]
RSCR 240  [3]  Advanced Cardiopulmonary Physiology .......4½
RSCR 242  [3]  Critical Care Procedures ........................4½
RSCR 250  [3]  Clinical 3 ...........................................3½

[Summer – First Session]
RSCR 244  [NP]  Neonatal-Pediatric Respiratory Care .........2
RSCR 251  [NP]  Neonatal and Pediatric Clinical Practice .......½

[Summer – Second Session]
RSCR 253  [NP]  Neonatal and Pediatric Clinical Practice 2 ......½

[Fall]
RSCR 246  [4]  Current Issues in Respiratory Care ...............3
RSCR 252  [4]  Physician Rounds for Respiratory Care ..........½

ADDITIONAL REQUIREMENTS FOR ASSOCIATE DEGREE

Demonstrated competence in Reading and Mathematics (maximum 14 units) Select from the MJC-GE Pattern in the MJC Catalog.

Activities .................................................................2
Guidance ..............................................................1½
Humanities ............................................................3
Language and Rationale:
D.1. .................................................................3
D.2. .................................................................3
[Note: Health Education requirement is waived for Respiratory Care candidates.]

TOTAL UNITS IN A.S. DEGREE IN RESPIRATORY CARE .......... 71½
SCHOLASTIC REQUIREMENTS

Continuation in the Respiratory Care Program is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for a Certificate of Completion.

POLICY FOR IMPOSING PENALTIES OR DENIAL OF LICENSURE

The law provides for denial of licensure for crimes or acts, which may in any way be related to patient, care activities, i.e. sex crimes, drug crimes, alcohol or drug abuse, and crimes of violence. In such cases, it is the applicant’s responsibility to present sufficient evidence of rehabilitation to the Respiratory Care Board of California prior to taking the licensure examination. If the above violations are only misdemeanors, an in-house review and penalty determination may be performed and fines, warning letters, and/or probation may be issued without denial of a license. The Respiratory Care Board of California will screen applicants individually. Any student considering a career as a Respiratory Therapist who might be denied licensure is advised to consult the Disciplinary Guidelines (California Code of Regulations, 1399.374) published by the Respiratory Care Board of California before entering the program. This document is available on reserve in the MJC library. Further information on disciplinary guidelines may be obtained from:

Respiratory Care Board of California
444 North 3rd Street, Suite 270
Sacramento, CA 95814
Toll Free in California (866) 375-0386
http://www.rcb.ca.gov/index.html
Educational Programs in

Arts, Humanities, & Communications

Division Information

Location: Art Building, 105
(209) 575-6081

Michael Sundquist, Interim Division Dean

FACULTY
Barbara Adams
Deborah Barr
Paul Berger
Lori Bryhni
Flora Carter
David Chapman
Tom Duchscher
Charles Ewing, PhD.
Janell Glance
Todd Guy
Kim Gyruran
Terry Hartman
Daniel Keller
Carol Lancaster-Mingus
Cherrle Llewellyn, DMA.
Michael Lynch
Erik Maki
Anne Martin
Allan McKissick
Haleh Niazmand
Laura Paull
Chad Redwing
Alejandro Sabre, PhD.
Jim Sahlman, PhD.
Richard Serros, PhD.
Douglas Smith
Robert Stevenson
Stephen Stroud, DMA.

SUPPORT STAFF
Lee Bailey, Inst. Asst. II
Yan Yan Chan, PhD., Accompanist
Gary Fair, Inst. Asst. II
John Giorgio, Lab Asst. I
Donna Hale, Support Staff II
Carol Heintz, Admin.Secretary
Rita Perez, Support Staff II
Anne Shanto, Perf. Arts Costume Specialist
Larry Zabel, Stage Mgmt.Specialist

Degrees and/or Certificates offered in the following areas:

Art AA
Art Gallery/Museum Studies C
Film C
Journalism C
Journalism (Print) AA
Music AA
Photography AA
Radio Broadcasting AA, C
Speech Communication AA, C
Television Production AA, C
Theatre AA
Theatre, Design & Technical C
Theatre Performance C

Art Program

The comprehensive MJC Art Program offers several areas of concentration: art history, ceramics, computer graphics, drawing, design, sculpture, watercolor painting, oil painting, museum studies, and photography. The program is designed to include pre-professional and professional courses, personal enrichment in specific art areas, and classes for students who plan a career in Art. Art courses help students develop a capacity for creative thinking and the ability to solve problems in new and creative ways.

A.A. Degree: Art

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below. Courses should be selected with the assistance of an Art faculty advisor.

• Students who plan to transfer to a four-year college or university should consult with an Art faculty advisor and a counselor to ensure that all required transfer courses are completed.

REQUIRED COURSES - Complete 9 units

<table>
<thead>
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<tr>
<td>ART 164</td>
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<thead>
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<tbody>
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<td>ART 123</td>
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<tr>
<td>ART 125</td>
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THREE-DIMENSIONAL ART AREA

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<td>ART 140</td>
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<tr>
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<td>ART 147</td>
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<td>ART 148</td>
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<td>ART 149</td>
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PAINTING AND PRINTMAKING AREA

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<tr>
<td>ART 168</td>
<td>1</td>
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<tr>
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<td>[NP]</td>
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<td>ART 18</td>
<td>[NP]</td>
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<td>ART 19</td>
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ART HISTORY AND APPRECIATION AREA

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<td>ART 168</td>
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<tbody>
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<tr>
<td>ART 18</td>
<td>[NP]</td>
</tr>
<tr>
<td>ART 19</td>
<td>[NP]</td>
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</table>

Continued on
PHOTOGRAPHY AND COMPUTER GRAPHICS AREA

**ART**
- 170 [1] Basic Photography .................................. 3
- 181 [1] Basic Photography (1) .................................. 1½
- 182 [2] Basic Photography (2) .................................. 1½
- 185 [3] Intermediate Photography (1) .......................... 1½
- 186 [4] Intermediate Photography (2) .......................... 1½
- 175 [3] Color Photography .................................. 3

**TOTAL UNITS IN A.A. MAJOR** .................................................. 20

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**Film Program**

**Certificate: Film**

- To earn a Certificate of Achievement, the student must complete the coursework as indicated below. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 12 units
- RATV 142 [2] Light, Sound, Camera & Editing Workshop .......... 3
- RATV 150 [1] Introduction to Mass Communications .............. 3
- FILM 150 [1] Film Production ................................... 3
- FILM 151 [1] Advanced Film Production .......................... 3

**ELECTIVE COURSES** - Complete 4 or more units

**Complete 1-2 units**
- FILM 199A [2,3] Film Internship........................................ 1-2

**Complete 3 units**
- ENGL 109 [NP] Creative Writing: Scriptwriting ................. 3
- ENGL 161 [NP] Film Appreciation ................................ 3
- FILM 153 [NP] Contemporary Film ................................ 3
- FILM 154 [1,2] Movies with a Message: Social Topics in Film .... 3
- FILM 155 [NP] The Documentary Film .............................. 3

**TOTAL UNITS REQUIRED FOR CERTIFICATE** .......................... 16

---

**Journalism Program**

**Journalism Program**

The Program in Print Journalism is designed to develop in students the skills and attributes of the professional journalist, particularly those working in print media: newspapers, magazines and online publications. Writing and reporting, research and analysis, design and technical skills relating to the visual presentation of the news, are all equally important in this program. The AA degree in Communications / Print Journalism, is oriented towards developing a broader awareness of current events and contemporary culture, the ability to write publishable articles in a range of writing styles, and both a theoretical and practical understanding of the form and function of the American news media. The Certificate in Print Journalism trains students in the writing style that is the professional standard, covering the news, preparing publications, principles of typography and in newspaper and magazine layout, preparing them for entry level jobs in the news media. Working on the Modesto Junior College newspaper, a core class in both the AA degree and certificate sequences, is a hands-on practicum in newspaper publishing in which the reality of producing fair, accurate and ethical journalism on deadline is simulated. Students often go on to internships and jobs with the local media.

Continued...
Certificate: Print Journalism

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 12 units
RATV 150 [NP] Introduction to Mass Communication ..........................3
JRNL 100 [NP] Reporting and Writing for the Media ..........................3
JRNL 120C [NP] Newspaper Production Staff .................................3
CGR 211 [NP] Typography 1 (PageMaker and QuarkXpress) ..............2
LR 120 [NP] Library Research on the World Wide Web ....................1

ELECTIVE COURSES - Complete 3 units
RATV 138 [NP] Writing for Radio and Television .............................3
FILM 154 [NP] Movies with a Message: Social Topics in Film ...........3
ENGL 105 [NP] Creative Writing: Poetry ....................................3
ENGL 106 [NP] Creative Writing: Short Fiction ..............................3
ENGL 108 [NP] Creative Writing: Autobiography ............................3
ENGL 178 [NP] Mass Media and the Public ..................................3

TOTAL UNITS FOR CERTIFICATE ........................................ 15

A.A. Degree: Journalism

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below.

REQUIRED COURSES - Complete 19 units
JRNL 100 [1] Reporting and Writing for the Media ..........................3
JRNL 120C [2] Student Newspaper Production Staff .........................3
RATV 150 [1,2] Introduction to Mass Communications ........................3
RATV 138 [1,2] Writing for Radio and Television .............................3
ENGL 178 [NP] Mass Media and the Public ..................................3

ELECTIVE COURSES - Complete 3 units
CGR 331 [3,4] Typography 2 (PageMaker and QuarkXpress) ..............3

TOTAL UNITS IN A.A. MAJOR ......................................... 22

Music Program

The MJC Music Program is designed to promote excellence in all aspects of musical performance, to provide basic preparation for careers in music, and to promote interest in all musical endeavors. Students can study voice, piano, guitar, strings, brass, woodwinds, percussion, and organ. Students may perform in a variety of ensembles which include; Concert Choir, small group ensembles, Jazz Singers, Masterworks Chorus, College Singers, Symphonic Band, Chamber Orchestra, and Jazz Band. The absence of Junior and Senior classmates ensures Freshmen and Sophomores that they will have extensive opportunities to fill major roles in all performing groups.

Repeat Limitations on Applied and Ensemble Music Courses

The following limitations apply to all activities listed under Applied Instruction, Instrumental Ensembles, Vocal Ensembles, Orchestra, and Band:

Each activity is limited to a maximum of four enrollments, regardless of the skill level of the individual courses. For example, a student may enroll, a) in beginning piano four times or b) twice in beginning piano and twice in intermediate piano. In either of these cases, the student cannot enroll in any additional piano courses because the maximum of four piano courses has been met. Students who have met the limit of repetition may continue to enroll as a Community Participant, registering in the Community Services Office.

A.A. Degree: Music

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements, in addition to the following coursework. Students who plan to transfer to a four-year school are strongly advised to meet with a member of the music faculty.

PROGRAM PREREQUISITES

MUSIC 100 [P] Music Fundamentals ...........................................3 AND
MUSIC 101 [P] Music Fundamentals 2 .........................................3 OR
SATISFACTORY SCORE on theory placement examination offered during the first week of Music 102. Students who do not meet entrance proficiencies will be encouraged to enroll in Music 100 and/or Music 101. See the music theory instructor for additional information.

REQUIRED COURSES - Complete 16 units
MUSIC 102 [1] Music Theory 1 ...............................................3
MUSIC 104 [1] Aural Skills 1 ..................................................1
MUSIC 105 [2] Aural Skills 2 ..................................................1
MUSIC 108 [3] Aural Skills 3 ..................................................1
MUSIC 109 [4] Aural Skills 4 ..................................................1

Any of the following ensembles (repeated 4 times at 1 unit) ...............4
MUSIC 146 Symphonic Band
MUSIC 149 Jazz Band
MUSIC 150 String Orchestra
MUSIC 152 Concert Choir
MUSIC 153 Singers
MUSIC 154 Masterworks Chorus
MUSIC 162 Community Orchestra
MUSIC 173 Guitar Orchestra

TOTAL UNITS IN A.A. MAJOR .............................................. 20

Continued Ô
Photography Program

Photography is both an artistic and a technical vocation. This program is designed to develop the student’s aesthetic and technical abilities by working with design, composition, lighting situations, various types of imagery, photographic processes, presentation methods, and image critique sessions.

A.A. Degree: Photography

• To earn an Associate in Arts Degree, students must complete 18 Required Units and 2 Elective Units, plus meet the MJC Associate Degree Requirements. Courses should be selected with the assistance of a Photography faculty advisor. Students who plan to transfer to a four-year college or university should consult with a Photography faculty advisor to ensure that all required transfer courses are completed.

RECOMMENDED MUSIC ELECTIVES

Students who plan to transfer as music majors are strongly encouraged to complete the following courses in preparation for upper-division study at a four-year college or university. Please speak to a music faculty member when planning your coursework.

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<th>COURSE</th>
<th>UNITS</th>
<th>DESCRIPTION</th>
<th>REQUIRED COURSES</th>
<th>UNITS</th>
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<tbody>
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<td>MUSIC 110</td>
<td>NP</td>
<td>Music Appreciation</td>
<td>ART 124</td>
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</tr>
<tr>
<td>MUSIC 119</td>
<td>NP</td>
<td>Rhythmic Skills</td>
<td>ART 168</td>
<td>3</td>
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<td>Elementary Piano</td>
<td>ART 170</td>
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<td>MUSIC 121</td>
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<td>Piano Enrichment</td>
<td>ART 172</td>
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</tr>
<tr>
<td>MUSIC 122</td>
<td>NP</td>
<td>Intermediate Piano</td>
<td>ART 173</td>
<td>3</td>
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<tr>
<td>MUSIC 197</td>
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<td>Practica Musica (1 unit)</td>
<td>ART 175</td>
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<tr>
<td>MUSIC 114</td>
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<td>Conducting 1</td>
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<tr>
<td>MUSIC 115</td>
<td>NP</td>
<td>Conducting 2</td>
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REQUIRED COURSES - Complete 18 units

ART 124 Color and Design 1 .................................................. 3
ART 168 Survey of Photography ............................................. 3
ART 170 Basic Photography .................................................. 3
ART 172 Intermediate Photography ....................................... 3
ART 173 Digital Photography .............................................. 3
ART 175 Color Photography ................................................ 3

ELECTIVE COURSES - Complete at least 2 units

ART 160 Appreciation of Art .............................................. 3
ART 161 American Art .......................................................... 3
ART 166 History of Modern Art ............................................. 3
ART 167 History of Art ......................................................... 3
ART 168 Survey of Photography .............................................. 3
ART 175 Color Photography ................................................ 3
ART 176 Advanced Photography (can be repeated) ..................... 2-4
ART 176B-C Newspaper photo staff .......................................... 2-3
CGR 221 Image Capture and Manipulation ................................ 3

TOTAL UNITS FOR CERTIFICATE ................................................. 17

Radio Broadcasting Program

Radio students at MJC learn in an environment designed to be as close to the “real world” of professional broadcasting as possible. The Radio Broadcasting program is designed to teach students skills in production, announcing, and writing. These courses are put to work on the campus radio station, MJC Radio which is operated daily by broadcasting students as a model commercial broadcasting station employing current FCC standards and practices. The Modesto area provides advanced students ample opportunities for internships, part-time employment, and independent directed studies.

Certificate: Radio Broadcasting

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 13 units

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>DESCRIPTION</th>
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<tr>
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<td>RATV 132</td>
<td>[2]</td>
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<td>RATV 137</td>
<td>[NP]</td>
<td>Radio Programming and Broadcast Announcing</td>
<td></td>
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<tr>
<td>RATV 138</td>
<td>[NP]</td>
<td>Writing for Radio and Television</td>
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</table>

ELECTIVE COURSES - Complete 4 units

Select one course from the following:

- RATV 133 Advanced Radio Production 2 .................................. 4
- RATV 199A-D Radio Internship ........................................... 1-4

If necessary, select one course from the following:

- RATV 101 Basic Voice & Articulation .................................. 3
- RATV 134 Television Studio Production ................................ 3
- RATV 150 Introduction to Mass Communication ...................... 3
- CNPGR 287 Introduction to Multimedia ................................ 3

TOTAL UNITS FOR CERTIFICATE ................................................. 20
A.A. Degree: Radio Broadcasting

To earn an Associate in Arts Degree, student must complete the 13 Required Units and 7 Elective Units, plus meet the MJC Associate Degree Requirements. Students who plan to transfer to a four-year college or university should consult with a Radio Broadcasting advisor regarding choice of Elective Units. Students who plan to transfer to a four-year college or university should consult with a Radio Broadcasting faculty advisor to ensure that all required transfer courses are completed.

REQUIRED COURSES - Complete 13 units

RATV 131 [1] Introduction to Radio Production..................3
RATV 137 [NP] Radio Programming and Broadcast Announcing......3
RATV 138 [NP] Writing for Radio and Television..................3

ELECTIVE COURSES - Complete 7 units

RATV 101 [NP] Basic Voice and Articulation........................3
RATV 133 [2] Radio Production 2..........................4
RATV 150 [1] Introduction to Mass Communication..............3
THETR 120 [NP] Oral Reading and Interpretation..................3

TOTAL UNITS IN A.A. MAJOR ...................................................... 20

Speech Communication Program

Certificate: Speech Communication

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 12 units

ORAL COMMUNICATION AREA - Complete 3 units
SPCOM 100 [NP] Public Speaking.................................3
SPCOM 102 [NP] Introduction to Human Communication........3
SPCOM 110 [NP] Persuasion........................................3

CRITICAL THINKING AREA - Complete 3 units
SPCOM 104 [NP] Argumentation.................................3
SPCOM 107 [NP] Introduction to Debate..........................3

GROUP AND ORGANIZATIONAL COMMUNICATION AREA - Complete 3 units
SPCOM 106 [NP] Group & Organizational Communication........3
SPCOM 109 [NP] Communication & Leadership Skills For Women in Management..........................3

PROFESSIONAL SKILLS AREA - Complete 3 units
SPCOM 103 [NP] Interpersonal Communication....................3
SPCOM 130 [NP] Intercultural Communication....................3

TOTAL UNITS FOR CERTIFICATE ............................................. 12

A.A. Degree: Speech Communication

To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework. Student should consult with a Speech advisor for selection of Elective Units.

REQUIRED COURSES - Complete 6 units

SPCOM 102 [1] Introduction to Human Communication............3 OR
SPCOM 100 [1] Fundamentals of Public Speaking....................3
SPCOM 104 [NP] Argumentation.................................3

ELECTIVE COURSES - Complete 14 units

SPCOM 101 [NP] Basic Voice and Articulation....................3
SPCOM 103 [NP] Interpersonal Communication....................3
SPCOM 105 [NP] Forensics and Speech Activities Workshop........3
SPCOM 106 [NP] Organizational Communication....................3
SPCOM 107 [1] Introduction to Debate..........................3
SPCOM 109 [NP] Communication and Leadership Skills for Women in Management..........................3
SPCOM 110 [NP] Persuasion........................................3
SPCOM 120 [NP] Oral Reading and Interpretation................3
SPCM 122 [1] Introduction to Readers’ Theatre....................3
SPCM 123 [NP] Storytelling.........................................3
SPCM 130 [NP] Intercultural Communication....................3
SPCM 145 [NP] Parliamentary Procedure............................1
SPCM 199 [NP] Independent Study.................................1-3

TOTAL UNITS IN A.A. MAJOR ...................................................... 20

Television Production Program

Modesto Junior College’s department of Television Production has been created to train students to work in the television, cable, film, and video entertainment industry. Students get a variety of hand-on opportunities with course study in both studio and on-location television, film, and documentary production. Students will learn to produce, direct, act as talent, shoot and edit projects and programs that air on local cable channels. Advance television and film students are encouraged to submit their work to local and national student film and video competitions. In addition, qualified students can secure internships with local production companies or MJC TV-FILM production company.

Students who enroll in the Television Production program will get to explore new career paths that result from the development of new digital technologies. They will leave with the skills required for a promising career in the television/film industry.

Certificate: Television Production

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 13 units

RATV 150 [1] Introduction to Mass Communication..............3
RATV 134 [1] Television Production...............................3
RATV 142 [2] Light, Sound, Camera, & Editing Workshop.........3
RATV 199C [2,3] MJC TV-FILM Production Company...............1

ELECTIVE COURSES - Complete 3 units

RATV 138 [1,2] Writing for Radio & Television....................3
RATV 141 [NP] Television Video Documentary Production........3
ENGL 178 [NP] Mass Media & the Public............................3

Continued
A. A. Degree: Television Production

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

**REQUIRED COURSES** - Complete 15 units

- RATV 134 [1] Television Studio Production ........................................... 3
- RATV 135 [2] Advanced Television Production 1 ..................................... 3
- RATV 142 [2] Light, Sound, Camera and Editing Workshop ....................... 3
- RATV 150 [1] Introduction to Mass Communications .................................. 3
- FILM 150 [1] Film Production .................................................................... 3

**ELECTIVE COURSES** - Complete 5 units

- FILM 151 [2] Advanced Film Production 1 ............................................. 3
- RATV 101 [NP] Basic Voice Improvement ................................................... 3
- RATV 131 [1] Radio Control Room & Studio Production ........................... 3
- RATV 137 [NP] Radio and Television Announcing ..................................... 3
- RATV 138 [NP] Writing for Radio and Television ....................................... 3
- RATV 141 [NP] Television Video Documentary Production ........................ 3

**TOTAL UNITS IN A.A. MAJOR** .......................................................... 20

**TOTAL UNITS FOR CERTIFICATE** .................................................... 16

**A. A. Degree: Theatre**

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to completing the coursework below. Students should consult with a Theatre faculty advisor to ensure that all required transfer courses are completed.

**REQUIRED COURSES** - Complete 8 units

- THETR 100 [1] Introduction to Theatre Arts ............................................ 3

**ELECTIVE COURSES** - Complete 12 units

- THETR 122 [1] Introduction to Readers' Theatre ..................................... 3
- THETR 123 [3] Storytelling: The Interpretation of Children's Literature ......... 3
- THETR 150 [NP] Elements of Playwriting .............................................. 3
- THETR 164 [NP] Improvisational Acting ................................................. 3
- THETR 165 [NP] History of the American Musical Theatre ....................... 3
- THETR 175 [NP] Stage Costuming ............................................................ 3
- THETR 182 [3] Practical Stage Lighting .................................................... 3
- THETR 183 [NP] Fundamentals of Stage Make-Up 1 .................................. 1
- THETR 184 [NP] Fundamentals of Stage Make-Up 2 .................................. 1
- THETR 190A [NP] Theatre Production Workshop ...................................... 1
- THETR 192 [NP] Rehearsal and Performance .......................................... 2
- THETR 196 [NP] Theatre Management .................................................... 1
- THETR 198 [NP] Special Topics ............................................................... 1-3

**TOTAL UNITS IN A.A. MAJOR** .......................................................... 20

**Theatre Program**

The Theatre Program at MJC is designed to prepare students to work in professional or semi-professional theatre situations or to transfer to four-year colleges and universities to pursue additional drama classes that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costuming, directing, playwriting, lighting, makeup, oral interpretation, stage design, and children's theatre. The Theatre program provides students the opportunity to act in major productions.

**Certificate: Design & Technical Theatre**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 15 units

- THETR 100 [NP] Introduction to Theatre Arts ........................................ 3
- THETR 175 [1] Stage Costuming ............................................................... 3
- THETR 182 [1] Practical Stage Lighting .................................................... 3
- THETR 183 [2] Fundamentals of Stage Make-Up 1 .................................. 1
- THETR 190A [NP] Theatre Production Workshop ...................................... 1
- THETR 196 [NP] Theatre Management .................................................... 1

**TOTAL UNITS FOR CERTIFICATE** .................................................... 15

**Certificate: Theatre Performance**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 6 units


**ELECTIVE COURSES** - Complete 9 units

- THETR 122 [1] Introduction to Readers' Theatre ..................................... 3
- THETR 123 [NP] Storytelling: The Interpretation of Children's Literature .... 3
- THETR 131 [NP] Fundamentals of Choreography .................................... 3
- THETR 195 [NP] Movement for the Performing Artist .............................. 3

**TOTAL UNITS FOR CERTIFICATE** .................................................... 15
Educational Programs in Behavioral & Social Sciences

Division Information
(Behavioral and Social Sciences is a subdivision of the Business, Behavioral, & Social Sciences Division)

Founders Hall 162
(209) 575-6129

John Zamora
Interim Division Dean

FACULTY

Dale Hoagland
Cecelia Hudelson Putnam
Bobby Hutchison
Kimberly Kennard-Lyke, DSW
Susan Kerr, PhD
Linda Kropp
Rose LaMont
Brian Larson
Curtis Martin
James McGarry, PhD.
Lee Merchant
Steven Miller PhD.
Eva Mo
Joseph Monast, PhD.
William Newell, PhD.
Teri Nicoll-Johnson
Dale Phillips
Michael Ray
Roman Salazar
Kathleen Short
Nancy Sill
Brian Sinclair
Al Smith
Richard Sweeney
Chris Vaughn
Lloyd Vaught
Kenneth White, PhD.
Sandra Woodside
John Zamora

SUPPORT STAFF

Lori Williams, Admin.Secretary
Haley Radovich, Secretary III
TBA, Support Staff II

INSTRUCTIONAL SUPPORT STAFF

Penny Belus, Lab. Asst. II
Andrea Porter, Lab Asst. I
Sharon McIntire, Inst. Asst. II
Kimberly Mitchell, Inst. Asst. I
Wendy Towers, Inst. Asst. I
Sampa Murphy, Inst. Asst. I
Eloida Fernandez, Inst. Asst. I
TBA, Program Rep. II
Ken Sholar, Lab Asst. I

Degrees and/or Certificates offered in the following areas:

- Administration of Justice AS, AA
- Behavioral and Social Sciences AA
- Chemical Dependency Counseling AA
- Ethnic Studies C
- Human Services AA, C
- Supervisory Management in Public Safety C

About the Division

Offerings in the Behavioral and Social Sciences Division are designed to meet the needs of transfer students, non-transfer students and community residents who desire general education courses. A student may complete an Associate of Arts degree in Behavioral and Social Sciences. All majors must complete a program of courses approved by the division. Faculty advisors from the division will assist students in the selection of proper courses.

Administration of Justice Program

Modesto Junior College offers a comprehensive Administration of Justice program. The curriculum is addresses basic knowledge and skills required in the criminal justice area.

The two-year college program is designed to prepare candidates for employment or transfer to a four-year educational institution offering a major in one of the criminal justice fields. Satisfactory completion of the requirements will lead to the Associate in Arts degree or the Associate in Science degree. Classes are offered both day and evening. The college cooperates with the Administration of Justice Advisory Committee.

All courses are open to individuals who have been admitted to the college and who meet the prerequisites, unless specifically exempted by statute. Courses which involve the handling of firearms, mace, or baton are not open to individuals who have been convicted of a felony or who are mental patients. (Penal Code Section 12021 firearms, 12403.7 chemical agents, 12020 batons, and Welfare and Institutions Code 8100-01-02-03.)

Prior to use of a firearm in any course, each student must sign a declaration to the effect that he/she is not prohibited from such use by Penal Code Section 12021. Students are also advised that some of the Administration of Justice courses include actual or simulated experiences which require considerable agility and physical ability.

All candidates for degrees in Administration of Justice must consult with an Administration of Justice advisor to select the courses most appropriate for meeting both the MJC Associate Degree Requirements and the current demands of employing agencies and transfer institutions.

A.A. Degree: Administration of Justice

To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements, in addition to completing the coursework below.

REQUIRED COURSES - Complete 18 units

<table>
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<th>Course</th>
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<tr>
<td>ADJU 201</td>
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<td>Introduction to Administration of Justice</td>
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<td>ADJU 202</td>
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<td>Proceedings of the Justice System</td>
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<td>ADJU 203</td>
<td>3</td>
<td>Concepts of Criminal Law</td>
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<td>ADJU 204</td>
<td>3</td>
<td>Legal Aspects of Evidence</td>
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<td>ADJU 205</td>
<td>3</td>
<td>Community Relations</td>
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<tr>
<td>ADJU 212</td>
<td>4</td>
<td>Criminal Investigation</td>
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ELECTIVE COURSES - Complete 3 units

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<th>Course</th>
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<tr>
<td>ADJU 145</td>
<td>1</td>
<td>Comm. Agency Serv.</td>
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<td>ADJU 145A-D</td>
<td>1,2,3,4</td>
<td>Comm. Agency Serv. Fieldwork</td>
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<tr>
<td>ADJU 206</td>
<td>3</td>
<td>Multicult. Issues within Public Safety</td>
</tr>
<tr>
<td>ADJU 210</td>
<td>3</td>
<td>Communication in Criminal Justice</td>
</tr>
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</table>

Continued...
### Behavioral & Social Sciences Program

#### A.A. Degree: Behavioral and Social Sciences

To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below.

**REQUIRED COURSES** - Complete 20 units

Complete 20 units of coursework from any of the following academic departments. Students must choose at least four discipline areas, and may complete no more than two courses from any department.

**DEPARTMENTS**

- Administration of Justice*  
- Human Services*  
- Anthropology  
- Philosophy  
- Economics  
- Political Science  
- Geography  
- Psychology  
- Gerontology  
- Sociology  
- History  
- Social Science

**TOTAL UNITS IN A.A. MAJOR** .............................................. 20  

*Note: Students interested in Administration of Justice and Human Services may earn a degree or certificate in these areas. Specific information is listed under those headings in the catalog.

### Chemical Dependency Counseling Program

#### A.A. Degree: Human Services/Chemical Dependency Counseling Program

To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework that follows.

**REQUIRED COURSES** - Complete 23 units

**TOTAL UNITS IN A.A. MAJOR** .............................................. 23

#### Certificate: Supervisory Management in Public Safety

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**Required Courses** - Complete 12 units

**TOTAL UNITS FOR CERTIFICATE** ........................................... 12

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### Table

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ADJU 213</td>
<td>Patrol Procedures</td>
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<tr>
<td>ADJU 215</td>
<td>Introduction to Firearms</td>
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<td>ADJU 216</td>
<td>Firearms &amp; Range Application</td>
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<td>ADJU 217</td>
<td>Substance Abuse</td>
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<td>ADJU 219</td>
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<td>ADJU 222</td>
<td>Profiling Terrorism</td>
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<tr>
<td>ADJU 232</td>
<td>Juvenile Justice Procedures</td>
<td>3</td>
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<td>ADJU 234</td>
<td>Crime Causation</td>
<td>3</td>
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<tr>
<td>ADJU 235</td>
<td>Introduction to Corrections</td>
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<td>ADJU 236</td>
<td>Correctional Law</td>
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<tr>
<td>ADJU 243</td>
<td>Domestic Violence Crisis Intervention</td>
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<tr>
<td>ADJU 351</td>
<td>Elements of Supervision in Public Safety</td>
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**TOTAL UNITS IN A.A. MAJOR** .............................................. 21

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<td>ADJU 210</td>
<td>Communication in Criminal Justice</td>
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<tr>
<td>ADJU 232</td>
<td>Juvenile Justice Procedures</td>
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<tr>
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**TOTAL UNITS FOR A.S. MAJOR** .............................................. 30

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### Certificate: Supervisory Management in Public Safety

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<td>Elements of Supervision in Public Safety</td>
<td>3</td>
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<tr>
<td>SUPR 106</td>
<td>Group and Organization Management</td>
<td>3</td>
</tr>
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<td>SUPR 364</td>
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<td>BUSAD 274</td>
<td>Human Resources Management</td>
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**TOTAL UNITS FOR CERTIFICATE** ........................................... 12
**Ethnic Studies Program**

**Certificate: Ethnic Studies**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** – Complete 6 Units

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<td>HIST 107</td>
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<tr>
<td>SPCM 130</td>
<td>Intercultural Communication</td>
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</table>

**I. INTERNATIONAL STUDIES OPTION**

Complete 9 units, 3 units from each concentration:

**A. Examining Culture through the Arts and Literature** – Complete 3 Units

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ART 169</td>
<td>History of Non-Western Art</td>
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<td>ENGL 131</td>
<td>Introduction to World Literature to 1500</td>
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<td>ENGL 132</td>
<td>Introduction to World Literature from 1500 to Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 151</td>
<td>Folktale</td>
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</tr>
<tr>
<td>ENGL 173</td>
<td>Introduction to Latin American Literature</td>
<td>3</td>
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<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
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<tr>
<td>MUSIC 169</td>
<td>Introduction to World Music</td>
<td>3</td>
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<tr>
<td>THETR 102</td>
<td>World Theater</td>
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<tr>
<td>THETR/PE194</td>
<td>World Dance</td>
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**B. Examining Historical and Political Perspectives** – Complete 3 Units

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<tr>
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<td>Introduction to International Business</td>
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<tr>
<td>GEOG 110</td>
<td>World Regional Geography</td>
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<td>HIST 106</td>
<td>World Civilizations</td>
<td>3</td>
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<td>HIST 125</td>
<td>History of Mexico</td>
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<tr>
<td>POLS 110</td>
<td>International Relations</td>
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**C. Exploring Cultural and Sociological Issues** – Complete 3 Units

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<tr>
<td>ANTHR 150</td>
<td>Native People of North America</td>
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<td>GEOG 102</td>
<td>Cultural Geography</td>
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<td>Introduction to Western Religions</td>
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<tr>
<td>SOCS 105</td>
<td>Women’s Studies</td>
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**II. DOMESTIC STUDIES OPTION**

Complete 9 units, 3 units from each concentration:

**A. Examining Culture through the Arts and Literature** – Complete 3 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 171</td>
<td>Introduction to African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 172</td>
<td>Introduction to Chicano Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 179</td>
<td>Introduction to Native American Literature, Mythology, and the Oral Tradition</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 120</td>
<td>Culture, Diversity, &amp; Tolerance in the Arts</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 112</td>
<td>Introduction to Spanish and Chicano Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

---

**Human Services Program**

**Certificate: Human Services**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** – Complete 27 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMSR 103</td>
<td>Introduction to Human Service Careers</td>
<td>½</td>
</tr>
<tr>
<td>GUIDE 110</td>
<td>Educational Planning</td>
<td>½</td>
</tr>
<tr>
<td>HUMSR 101</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 110</td>
<td>Introduction to Interviewing, Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 102</td>
<td>Social Problems in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 116</td>
<td>Drugs and Alcohol in Society</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 120</td>
<td>Professional Development in Chemical Dependency Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>Ethnicity and Culture in America</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 156</td>
<td>Mexican Culture in the United States</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 125</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 145</td>
<td>Community Agency Service</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 145ABD</td>
<td>Community Agency Service Fieldwork</td>
<td>1,2,4</td>
</tr>
<tr>
<td>PSYCH 110</td>
<td>Human Sexual Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 130</td>
<td>Personal Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 141</td>
<td>Human Life Span</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** ................................................. 27
# Programs in Behavioral & Social Sciences

## A.A. Degree: Human Services

*To earn an Associate in Arts Degree, student must complete the 17 Required Units, 3 Elective Units and meet the MJC Associate Degree Requirements.*

### REQUIRED COURSES - Complete 17 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMSR 101 [1]</td>
<td>Introduction to Human Services</td>
</tr>
<tr>
<td>HUMSR 110 [2]</td>
<td>Introduction to Interviewing, Counseling</td>
</tr>
<tr>
<td>HUMSR 114 [NP]</td>
<td>Death and Dying</td>
</tr>
<tr>
<td>HUMSR 145 [NP]</td>
<td>Community Service Agency</td>
</tr>
<tr>
<td>HUMSR 145ABD [NP]</td>
<td>Community Agency Service Fieldwork</td>
</tr>
<tr>
<td>HUMSR 116 [1]</td>
<td>Drugs and Alcohol in Society</td>
</tr>
<tr>
<td>SOCIO 150 [NP]</td>
<td>Minorities in America</td>
</tr>
<tr>
<td>SOCIO 156 [NP]</td>
<td>Mexican Culture in the United States</td>
</tr>
</tbody>
</table>

### ELECTIVE COURSES - Complete 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 102 [2]</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>HUMSR 103 [NP]</td>
<td>Introduction to Human Services Careers</td>
</tr>
<tr>
<td>HUMSR 113 [NP]</td>
<td>Co-Occurring Disorders</td>
</tr>
<tr>
<td>HUMSR 119 [NP]</td>
<td>Introduction to Group Leadership and Group Process</td>
</tr>
<tr>
<td>HUMSR 120 [NP]</td>
<td>Professional Development in Chemical Dependency Counseling</td>
</tr>
<tr>
<td>PSYCH 101 [1]</td>
<td>Psychology in Everyday Life</td>
</tr>
<tr>
<td>SOCIO 101 [1]</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOCIO 125 [3]</td>
<td>Sociology of the Family</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** ........................................................... **20**
Educational Programs in Business

Certificate: Accounting

The Accounting A.A./A.S. Degree program is an intensive study of accounting theory as it applies to business and industry today. Accounting is a vital element of business. Accountants record the way business has grown and, after analyzing the figures, recommend its future direction. Beginning courses concentrate on recording, classifying, and reporting financial information resulting from business transactions. The student then learns the financial structure of business and analysis of financial information for management decision making. Double entry accounting, ledger and journal techniques and accounting cycles are emphasized. The use of computers in accounting is also an integral part of the program. Accounting courses are taught during the day and evening to allow students who work the opportunity to attend classes.

Certificate: Accounting Clerk

OFADM 301 [NP] Beginning Keyboarding .................................1½ OR
OFADM 303 [NP] Skillbuilding for Speed and Accuracy ..........½ Introduction to Word Processing .................................1
OFADM 359 [NP] Introduction to Spreadsheets ..........................1
OFADM 314 [NP] Office Procedures and Technologies .................3
BUSAD 310 [NP] Bookkeeping 1 ........................................3
BUSAD 311 [NP] Beginning Computer Accounting Software .......1
BUSAD 332 [NP] Intermediate Computer Accounting Software ...1
BUSAD 300 [NP] Machine Calculation ................................2 OR
OFADM 375 [NP] 10-Key on the Computer .........................1
MATH 50 [NP] Business Math ........................................3

TOTAL UNITS FOR CERTIFICATE ..............................................14½

Degrees and/or Certificates offered in the following areas:

Accounting, AS, AA, C
Accounting Clerk C
Bookkeeping, AS, AA, C
Business Administration, AS, AA
Business Operations, AS, AA
Clerical, AS, AA, C
Computer Applications Specialist, C
Computer Graphics Applications, AS, C
Computer Information Systems, AA
Computer Programming Specialist, C
Computer Science, AS, AA
International Business, C
Marketing, AS, AA
Network Administration, C
Network Technician, C
Office Administration, AS, AA, C
Office Computer Applications, C
Office Support, C
Professional Selling, C
Records Management/ Data-Entry Specialist, C
Real Estate, AS, AA, C
Retail Management, C
Supervisory Management, AS, AA, C
Word Processing, C

Certificate: Accounting

The Accounting Certificate is designed for students entering into the accounting field at the entry level. If you wish to pursue professional certification (i.e., Certified Public Accountant and/or Certified Management Accountant), you should plan to earn at least a bachelor’s degree in Business Administration with a major in Accounting.

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 18 units
BUSAD 201 [NP] Financial Accounting ........................................4
BUSAD 202 [NP] Managerial Accounting .................................4
BUSAD 203 [NP] Computer Accounting .......................................3
BUSAD 204 [NP] Cost Accounting ...............................................3 OR
BUSAD 336 [NP] Tax Accounting ...............................................3
BUSAD 300 [NP] Machine Calculation ........................................2

ELECTIVE COURSES - Complete 6 units
CMPS 201 [NP] General Computer Literacy .............................3
CMPS 202 [NP] Business Information Systems .........3
BUSAD 377 [NP] Human Relations in Business .........................3
BUSAD 230 [NP] Personal Finance .............................................3
MATH 50 [NP] Business Math .................................................3

Continued...
Programs in Business

TOTAL UNITS IN A.S. MAJOR ...................................................... 30

TOTAL UNITS IN A.A. MAJOR ...................................................... 20

Programs in Business

ADDUCATIONAL PROGRAMS AT MJC

240
377
319
21
204
202
100
21
200
200
274
200
202

675
753
377
319
21
204
202
100
21
200
200
274
200
202

3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3

BUSAD 319 [NP] Payroll Accounting........................................3
BUSAD 218 [NP] Business Law.............................................4
Student may complete whichever course was not used in the REQUIRED units.
BUSAD 204 [NP] Cost Accounting ......................................... 3 OR
BUSAD 336 [NP] Tax Accounting............................................3

TOTAL UNITS FOR CERTIFICATE ............................................. 24

A.A. Degree: Accounting

• To earn an Associate in Arts Degree, the student must complete the MJC
Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 20 units
BUSAD 201 [1] Financial Accounting .....................................4
BUSAD 203 [3] Computer Accounting ..................................3
BUSAD 218 [4] Business Law .............................................4

TOTAL UNITS IN A.A. MAJOR .................................................. 20

A.S. Degree: Accounting

• To earn an Associate in Science Degree, the student must complete the MJC
Associate Degree Requirements in addition to the coursework below.

REQUIRED COURSES - Complete 20 units
BUSAD 201 [1] Financial Accounting .....................................4
BUSAD 203 [3] Computer Accounting ..................................3
BUSAD 218 [4] Business Law .............................................4

ELECTIVE COURSES - Complete 10 units
BUSAD 319 [3] Payroll Accounting........................................3
BUSAD 204 [3] Cost Accounting ...........................................3
BUSAD 100 [1] Success in Business ....................................1½

TOTAL UNITS IN A.S. MAJOR .................................................. 30

Bookkeeping Program

The Bookkeeping Certificate is designed for students planning to enter
the job market at the entry level as a bookkeeper/accounting clerk after
completing the required program courses here at Modesto Junior College.
Student should have keyboarding skills. If not, he/she should take a beginning
keyboarding course.

In the Bookkeeping A.A./A.S. Degree program at Modesto Junior College,
students learn to analyze and enter transactions in journals, post to ledgers,
complete worksheets, prepare the company’s payroll, calculate employer
payroll taxes, prepare the federal and state payroll tax forms, use various
bookkeeping registers, prepare adjusting and closing entries, prepare classified
earnings and capital statements, and prepare balance sheets. Students also
learn about depreciation, bad debts, cost of goods sold, notes receivable, notes
payable, inventory valuation and business taxes. The use of computers is also
an important part of the bookkeeping program.

Certificate: Bookkeeping

• To earn a Certificate of Achievement, the student must complete the
following coursework. Each course must be completed with a grade of C or
better.

REQUIRED COURSES - Complete 19 units
MATH 50 [NP] Business Math ............................................. 3
BUSAD 310 [NP] Bookkeeping 1 ....................................... 3
BUSAD 320 [NP] Bookkeeping 2 ....................................... 3
BUSAD 203 [NP] Computer Accounting ............................. 3
BUSAD 319 [NP] Payroll Accounting ..................................3
BUSAD 300 [NP] Machine Calculations .............................. 2
BUSAD 200 [NP] Spreadsheet Skills for Financial Accounting ...2

ELECTIVE COURSES - Complete 6 units
CMPS 202 [NP] Business Information Systems .................. 3
BUSAD 248 [NP] Introduction to Business ......................... 3
BUSAD 259 [NP] Small Business Management ................. 3
OFADM 203C [NP] Keyboarding ..................................... 3
OFADM 305 [NP] Records Management ......................... 3
BUSAD 377 [NP] Human Relations in Business ................. 3

TOTAL UNITS FOR CERTIFICATE ................................. 25

A.A. Degree: Bookkeeping

• To earn an Associate in Arts Degree, the student must complete the MJC
Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 19 units
BUSAD 310 [1] Bookkeeping 1 ....................................... 3
BUSAD 320 [2] Bookkeeping 2 ....................................... 3
MATH 50 [1] Business Math ............................................. 3
BUSAD 319 [3] Payroll Accounting ....................................3

ELECTIVE COURSES - Complete 3 units

TOTAL UNITS IN A.A. MAJOR .................................................. 22

EDUCATIONAL PROGRAMS AT MJC
A.S. Degree: Bookkeeping

• To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 19 units
BUSAD 310 [1] Bookkeeping .................................................. 3
BUSAD 320 [2] Bookkeeping 2 ............................................. 3
BUSAD 300 [1] Machine Calculation ...................................... 2
MATH 50 [1] Business Math .............................................. 3
BUSAD 319 [3] Payroll Accounting ........................................ 3

ELECTIVE COURSES - Complete 3 units

ADDITIONAL ELECTIVE COURSES - Complete 8 units
Any courses in Business Administration, Computer Science, or Office Administration

TOTAL UNITS IN A.S. MAJOR .................................................. 30

Business Administration Program

This curriculum plan is intended for those interested in transferring to a four-year college or university. Students are encouraged to consult with the business staff or counselor in order to modify the curriculum to reflect their career interests and the career goals of the major. Students who plan to pursue a Business Administration major at a four-year institution should check the catalog of the senior school for specific requirements. Visit www.assist.org for specific transfer information.

The Business Administration program is designed to prepare students who plan to transfer to a four-year college or university to earn a Bachelor in Arts or Science Degree. Students take classes to complete general education requirements and business classes in accounting, computer science, marketing, and business law to complete the Business Administration program. Upon transferring to a four-year college or university, students may choose a concentration in areas such as accounting, business teacher education, executive secretarial administration, finance, insurance, international business, management information, marketing, production operations and systems management, and real estate and land use affairs.

A.A. Degree: Business Administration

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework. It is suggested that the student who plans to transfer complete the UC/CSU IGETC pattern or the CSU/GE pattern.

REQUIRED COURSES - Complete 15 units

ELECTIVE COURSES - Complete 5 units
Any courses in Business Administration, Computer Science, or Office Administration

TOTAL UNITS IN A.A. MAJOR .................................................. 20

A.S. Degree: Business Administration

• To earn an Associate in Science Degree, students must complete the 15 Required Units for the Associate Degree, plus 15 units of coursework from Office Administration, Business Administration, Real Estate, Economics, or Computer Science, and the MJC Associate Degree Requirements.
• 4 units of vocational work experience will be accepted for the A.S. Degree as part of the 30-unit major requirement; none will be accepted for the A.A. Degree.

TOTAL UNITS FOR AS MAJOR ............................................. 30

Business Operations Program

The Business Operations major is designed for those students seeking an A.A./A.S. degree in management and/or marketing activities of organizations. The major offers two separate tracks for those students wishing to specialize in either area.

The Management track in Business Operations will prepare students for careers in both profit and nonprofit organizations. The basic functions of management are applied in organizations of all sizes and types. These functions include planning, organization, directing, and controlling. Students will learn the theory and techniques of problem solving, communication, motivation, and quality performance.

A.A. Degree: Business Operations: Management

• To earn an Associate in Arts Degree, the student must complete the 20 Required Units, and meet the MJC Associate Degree Requirements.

REQUIRED COURSES - Complete 20 units
BUSAD 240 [1] Principles of Management ............................. 3
BUSAD 210 [3] Business Communications............................. 3 OR

TOTAL UNITS IN A.A. MAJOR .................................................. 20

A.S. Degree: Business Operations: Management

• To earn an Associate in Science Degree, the student must complete the Required units for A.A. Degree, the MJC Associate Degree Requirements in addition to the following coursework.

ELECTIVE COURSES - Complete 10 units
Any courses in Business Administration, Computer Science, or Office Administration

TOTAL UNITS IN A.S. MAJOR ............................................. 30
Clerical Program

The Clerical A.A. / A.S. Degree/Certificate programs are designed to prepare students for various types of office occupations in the clerical field. Clerical training involves the study of various procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of basic skills necessary for success in those positions. Students learn keyboarding, records management, human relations, business communication, and math.

Career possibilities in the clerical field are numerous. Jobs exist in governmental agencies, schools, health facilities, stores, and in private businesses. Some of the career alternatives for clerical graduates are record keeper, file clerk, general office clerk, mail clerk, inventory clerk, receptionist, and word processor.

Certificate: Clerical

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 30 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 310 [NP]</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 50 [NP]</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 203B [1]</td>
<td>Intermediate Keyboard</td>
<td>2</td>
</tr>
<tr>
<td>OFADM 303 [NP]</td>
<td>Keyboarding for Speed and Accuracy (twice at ½ unit)</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 304 [2]</td>
<td>Professional English for Business</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 313 [1]</td>
<td>Office Skills</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 353 [2]</td>
<td>Introduction to Computers and Windows</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 359 [3]</td>
<td>Introduction to Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 362 [NP]</td>
<td>Introduction to Business Presentation Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 363 [NP]</td>
<td>Understanding the Internet</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 366 [NP]</td>
<td>Proofreading Techniques</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 375 [4]</td>
<td>10-Key on the Computer</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ..................................................... 30

A.S. Degree: Clerical

• To earn an Associate in Science Degree, the student must complete the 20 Required Units for A.A. Degree, plus 10 Elective Units from the Elective Courses below, and complete the MJC Associate Degree Requirements. Student should consult with a Clerical advisor for selection of Elective Units.

ELECTIVE COURSES - Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 303 [NP]</td>
<td>Keyboarding for Speed and Accuracy (twice at ½ unit)</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 330 [NP]</td>
<td>Beginning Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 362 [NP]</td>
<td>Introduction to Business Presentation Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 363 [NP]</td>
<td>Understanding the Internet</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 366 [NP]</td>
<td>Proofreading Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BUSAD 300 [NP]</td>
<td>Machine Calculation</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 310 [NP]</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 379 [NP]</td>
<td>Customer Relations</td>
<td>1</td>
</tr>
<tr>
<td>BUSAD 380 [NP]</td>
<td>Customer Service</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR .................................................................. 30

Computer Applications Specialist Program

Certificate: Computer Applications Specialist

REQUIRED COURSES – Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 201 [1]</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CMPGR 262 [1]</td>
<td>Exploring the Internet</td>
<td>1</td>
</tr>
</tbody>
</table>

REQUIRED OPTION – Complete one 6-unit option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 278 [1]</td>
<td>Spreadsheet Software</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 279 [2]</td>
<td>Spreadsheet Programming</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 276 [2]</td>
<td>Introduction to Data Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>Intermediate Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>SQL Server Administration</td>
<td>3</td>
</tr>
<tr>
<td>CMPGR 220 [1]</td>
<td>SQL Database Implementation</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ..................................................... 16

Continued
Computer Graphics Applications Program

The Computer Graphic Applications Associate Degree and Certificate program is structured to enable students to pursue a course of study and computer experience in career areas that rely on computer graphics. This program is designed to prepare students for employment, transfer to four-year institutions, or to allow employees within these industries to upgrade their skills. The Computer Graphic Applications Associate Degree and Certificate program is structured to enable students to pursue a course of study and computer experience in career areas that rely on computer graphics. This program is designed to prepare students for employment, transfer to four-year institutions, or to allow employees within these industries to upgrade their skills.

Certificate: Computer Graphics Applications

* To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 34 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>3</td>
<td>Basic Drawing</td>
</tr>
<tr>
<td>ART 124</td>
<td>2</td>
<td>Color and Design</td>
</tr>
<tr>
<td>CMPGR 213</td>
<td>3</td>
<td>Applied Computer Graphics</td>
</tr>
<tr>
<td>CMPGR 202</td>
<td>1</td>
<td>Introduction to Computer Graphics</td>
</tr>
<tr>
<td>CMPGR 215</td>
<td>3</td>
<td>Business Presentation Graphics</td>
</tr>
<tr>
<td>CMPGR 217</td>
<td>3</td>
<td>Computer Illustration Software</td>
</tr>
<tr>
<td>CMPGR 219*</td>
<td>1</td>
<td>Computer Graphics Portfolio Review</td>
</tr>
<tr>
<td>CMPGR 225</td>
<td>3</td>
<td>3D Modeling and Animation</td>
</tr>
<tr>
<td>CMPGR 235</td>
<td>3</td>
<td>Image Manipulation Software</td>
</tr>
<tr>
<td>CMPGR 263</td>
<td>3</td>
<td>Internet Literacy</td>
</tr>
<tr>
<td>CMPGR 264</td>
<td>3</td>
<td>Publishing on the World Wide Web</td>
</tr>
<tr>
<td>CMPGR 268</td>
<td>2</td>
<td>Desktop Video Animation</td>
</tr>
<tr>
<td>CMPSC 201</td>
<td>3</td>
<td>General Computer Literacy</td>
</tr>
<tr>
<td>CMPSC 202</td>
<td>3</td>
<td>Business Information Systems</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 160</td>
<td>3</td>
<td>Appreciation of Art</td>
</tr>
<tr>
<td>ART 170</td>
<td>3</td>
<td>Basic Photography</td>
</tr>
<tr>
<td>ART 181</td>
<td>1½</td>
<td>Basic Photography 1</td>
</tr>
<tr>
<td>ART 182</td>
<td>1½</td>
<td>Basic Photography 2</td>
</tr>
<tr>
<td>CGR 201</td>
<td>3</td>
<td>Graphic Arts Fundamentals</td>
</tr>
<tr>
<td>CGR 211</td>
<td>2</td>
<td>Typography 1 (PageMaker and QuarkXpress)</td>
</tr>
<tr>
<td>CGR 224</td>
<td>2</td>
<td>Electronic Publishing</td>
</tr>
<tr>
<td>ART 123</td>
<td>3</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ELTEC 315</td>
<td>2</td>
<td>Introduction to Media Systems</td>
</tr>
<tr>
<td>ENGTC 210</td>
<td>1</td>
<td>Introduction to C.A.D.</td>
</tr>
<tr>
<td>CMPSC 201</td>
<td>3</td>
<td>General Computer Literacy</td>
</tr>
<tr>
<td>CMPGR 236</td>
<td>3</td>
<td>Advanced Photoshop Applications</td>
</tr>
<tr>
<td>CMPGR 262</td>
<td>3</td>
<td>Exploring the World Wide Web</td>
</tr>
<tr>
<td>CMPGR 263</td>
<td>3</td>
<td>Internet Literacy</td>
</tr>
<tr>
<td>CMPGR 264</td>
<td>3</td>
<td>Publishing on the World Wide Web</td>
</tr>
<tr>
<td>CMPGR 265</td>
<td>3</td>
<td>Multimedia on the World Wide Web</td>
</tr>
<tr>
<td>CMPGR 267</td>
<td>3</td>
<td>Dreamweaver in Website Design</td>
</tr>
<tr>
<td>CMPGR 268</td>
<td>3</td>
<td>Flash: Web Graphics and Animation</td>
</tr>
<tr>
<td>CMPGR 269</td>
<td>3</td>
<td>Flash: Web Graphics and Animation</td>
</tr>
</tbody>
</table>
| CMPGR 285A,B| NP | Special Projects                              | 1,2

**TOTAL UNITS REQUIRED FOR CERTIFICATE**...................... 39

*Not required for AS Degree

AS Degree: Computer Graphics Applications

* To earn an Associate in Science Degree, students complete the Required and Elective courses for a certificate, with the exception of CMPGR 219, and complete the MJC Graduation Requirements.

**TOTAL UNITS REQUIRED IN AS MAJOR**.................. 39

Computer Information Systems Program

The Business Computer Information Systems program is designed for students who plan to specialize in business computer applications at a four-year college. Students who wish to declare this transfer major should ask for program planning assistance from a business program advisor. Transfer institutions vary in lower division (first two years of college) major department requirements. Meeting the Modesto Junior College Associate Degree major requirements does not necessarily mean a given transfer institution's major requirements have been met.

A.A. Degree: Computer Information Systems

Student may earn an Associate in Arts degree in Business Computer Information Systems by completing the coursework below and completing the MJC Associate Degree Requirements. Students are urged to meet with a Computer Science faculty advisor to assist them plan their specific program for graduation.

**REQUIRED COURSES** - Complete 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 202</td>
<td>3</td>
<td>Business Information Systems</td>
</tr>
<tr>
<td>BUSAD 201</td>
<td>3</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>BUSAD 202</td>
<td>4</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>4</td>
<td>Business Law</td>
</tr>
<tr>
<td>CMPSC 275</td>
<td>3</td>
<td>Database Management Systems for Microcomputers</td>
</tr>
<tr>
<td>CMPSC 220</td>
<td>3</td>
<td>SQL Server Administration</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR MAJOR**........................................ 21
Computer Programming Program

Certificate: Computer Programming Specialist

This certificate will prepare students to work as an entry level programmer in the areas of JAVA programming, C++ programming, or Visual BASIC programming.

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 13 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 204 [1]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>CMPSC 205 [2]</td>
<td>Problem Solving and Programming 1</td>
</tr>
<tr>
<td>CMPSC 206 [2]</td>
<td>UNIX/Linux OS</td>
</tr>
<tr>
<td>CMPGR 282 [1]</td>
<td>Exploring the Internet</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – Complete 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 16

Computer Science Program

The Computer Science A.S. Degree program at Modesto Junior College is designed to meet the needs of non-transfer students who wish to acquire the new computer skills needed in today’s work environment. The Computer Science program provides students with a general knowledge of computer literacy and information systems, microcomputer hardware and software systems, the ability to work with a wide variety of applications software, and an opportunity to develop programming and problem-solving skills.

Students who wish to major in Computer Science and transfer to a four-year institution should ask for program planning assistance from a business program advisor. Modesto Junior College offers a Computer Science transfer major to meet the major requirement for the Associate Degree. Transfer institutions vary in lower division (first two years of college) major department requirements. Meeting the Modesto Junior College Associate Degree major requirements does not necessarily mean the transfer institution’s major requirements have been met. Consult a Computer Science faculty advisor for assistance in determining the appropriate courses for the major you select.

A.A. Degree: Computer Science

- Student may earn an Associate in Arts degree in Computer Science by completing the coursework below and completing the MJC Associate Degree Requirements. Students are urged to meet with a Computer Science faculty advisor to assist them plan their specific program for graduation.

- IMPORTANT: This program is intended to be a Transfer Program guide only. Associate Degree Requirements, general education patterns, and junior standing requirements are subject to change. It is the student’s responsibility to consult the catalog for the targeted college/university. Students may consult a business division advisor for a sample four-semester plan and more detailed program-planning guidance.

RECOMMENDED PREPARATION - (Not part of major)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 301 [1]</td>
<td>Beginning Keyboarding</td>
</tr>
</tbody>
</table>

REQUIRED COURSES – Complete 13 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 205 [2]</td>
<td>Problem Solving and Programming 1</td>
</tr>
<tr>
<td>MATH 122 [1]</td>
<td>Functions and Analytical Geometry</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – Complete 3-4 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 213 [NP]</td>
<td>Programming with Visual Basic</td>
</tr>
<tr>
<td>MATH 144 [NP]</td>
<td>Applied FORTRAN</td>
</tr>
<tr>
<td>MATH 173 [NP]</td>
<td>Calculus: Third Course</td>
</tr>
<tr>
<td>MATH 134 [NP]</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>PHYS 102 [NP]</td>
<td>General Physics</td>
</tr>
<tr>
<td>MATH 174 [NP]</td>
<td>Introduction to Linear Algebra and Ordinary Differential Equations</td>
</tr>
</tbody>
</table>

ADDITIONAL ELECTIVE COURSES - Complete 3-4 units

Any course in Business Administration, Computer Science, or Office Administration

TOTAL UNITS FOR MAJOR .................................................. 20
A.S. Degree: Computer Science

- Student may earn an Associate in Science degree in Computer Science by completing the coursework below and completing the MJC Associate Degree Requirements. Students are urged to meet with a Computer Science faculty advisor to assist them plan their specific program for graduation.

- IMPORTANT: This program is intended to be a Transfer Program guide only. Associate Degree Requirements, general education patterns, and junior standing requirements are subject to change. It is the student’s responsibility to consult the catalog for the targeted college/university. Students may consult a business division advisor for a sample four-semester plan and more detailed program-planning guidance.

REQUARED OPTION - Complete one option for 30 units

**Information Systems Option**

- CMPSC 204 [1] Introduction to Programming .................................................. 3
- CMPSC 276 [2] Introduction to Data Warehousing ....................................... 3
- CMPSC 220 [4] SQL Server Administration .................................................. 3

**Networking Option**

- CMPSC 204 [1] Introduction to Programming ................................................ 3
- CMPSC 263 [1] Networking Essentials .......................................................... 3
- CMPSC 206 [2] UNIX/Linux OS ................................................................. 3
- CMPSC 220 [2] SQL Server Administration .................................................. 3

**Programming Option**

- CMPSC 201 [1] General Computer Literacy .................................................. 3
- CMPSC 204 [1] Introduction to Programming ................................................ 3
- CMPSC 206 [2] UNIX/Linux OS ................................................................. 3

TOTAL UNITS FOR MAJOR ............................................................................... 30

International Business Program

The International Business Certificate is designed for those students seeking an entrepreneurial or organizational career in global commerce. It may be obtained as an individual certificate or incorporated into other appropriate majors. Courses are designed to provide an essential understanding of both domestic and international business practices. Economic and cultural considerations are addressed in relation to business of all sizes and types.

**Certificate: International Business**

- To earn a Certificate of Achievement, the student must complete the coursework as indicated below. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 17 units

- BUSAD 201 (1) Financial Accounting ......................................................... 4
- BUSAD 208 (1) Survey of International Business ...................................... 3
- BUSAD 209 (2) Introduction to Importing/Exporting ................................. 3
- BUSAD 218 (3) Business Law .................................................................. 4
- CMPSC 202 (2) Business Information Systems ....................................... 3

TOTAL UNITS FOR CERTIFICATE .................................................................... 17

Marketing Program

The Marketing program is designed for those students interested in activities relating to the presentation, purchase, and distribution of goods and services in profit and nonprofit organizations. Students will learn the central role that marketing plays in organizations of every size and type, public and private.

A.A. Degree: Marketing

- To earn an Associate in Arts Degree, student must complete the 20 Required Units and meet the MJC Associate Degree Requirements.

**REQUIRED COURSES** - Complete 20 units

- BUSAD 245 [NP] Principles of Marketing (Mkt. I) ..................................... 3
- BUSAD 358 [NP] Sales and Ad Promotion (Mkt. II) ................................... 3
- BUSAD 259 [NP] Small Business Management ......................................... 3
- CMPGR 215 [NP] Business Presentation Graphics ..................................... 3 OR
- BUSAD 210 [NP] Business Communications ........................................... 3
- CMPSC 201 [1] General Computer Literacy ................................................ 3

TOTAL UNITS FOR MAJOR .............................................................................. 20

A.S. Degree: Marketing

- To earn an Associate in Science Degree, the student must complete the Required units for A.A. Degree, the MJC Associate Degree Requirements in addition to the following coursework.

**ELECTIVE COURSES** - Complete 10 units

- BUSAD 310 [NP] Bookkeeping 1 ................................................................. 3 OR
- BUSAD 201 [NP] Financial Accounting ...................................................... 4 OR
- BUSAD 218 [NP] Business Law ................................................................. 4

ANY 4-5 UNITS OF COURSEWORK IN BUSAD, OFADM OR CMPSC

TOTAL UNITS IN A.S. MAJOR ....................................................................... 30
Network Administration Program

Certificate: Computer Network Administration

This certificate is designed for students seeking entry-level job positions in computer network administration, designing networks, installing server and client operating systems, configuring network services, and implementing network security.

Note: All of these courses are also preparation for Microsoft certification as a Microsoft Certified Professional (MCP) in the individual subject. A student who has completed the Network Administration Certificate would be eligible to complete the Microsoft Certified Systems Engineer (MCSE) certification with the completion of just one additional course from the options list.

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

Certificate: Computer Network Administration

REQUIRED COURSES – Complete 15 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 206</td>
<td>UNIX/Linux OS</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 220</td>
<td>SQL Server Administration</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 264</td>
<td>Windows Server OS</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 281</td>
<td>Advanced Networking and Security</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 289</td>
<td>Directory Services</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 15

Certificate: Computer Network Technician

This certificate is designed for students seeking an entry-level position in computer network administration, designing networks, installing server and client operating systems, configuring network services, and implementing network security.

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 14 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 201</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 206</td>
<td>Personal Computer Assembly, Upgrading and Repair</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 210</td>
<td>Intermediate Personal Computer Assembly, Upgrading, and Repair (CompTIA A+)</td>
<td>3</td>
</tr>
<tr>
<td>CMPGR 262</td>
<td>Exploring the Internet</td>
<td>1</td>
</tr>
<tr>
<td>CMPSC 263</td>
<td>Networking Essentials (NETWORK+)</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 269</td>
<td>CompTIA NETWORK + Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – Complete 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 206</td>
<td>UNIX/Linux Systems and Programming</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 208</td>
<td>World of Electricity and Electronics</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 16

Office Administration Program

The Office Administration A.A./A.S. Degree/Certificate Program is designed to prepare students for occupations in the office administration field. Some career possibilities are administrative assistant, executive secretary, office manager, office supervisor, and transcriptionist. Office administration involves the study of office procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of skills necessary for success in these positions. Students learn keyboarding, word processing, records management, human relations, business communication, and math. Word processing, letter composition, and office administration procedures are emphasized to prepare students for the assumption of responsible positions.

Certificate: Office Administration

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 32 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 203B</td>
<td>Intermediate Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 231</td>
<td>Intermediate Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 311</td>
<td>Word Processing and Transcription</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 314</td>
<td>Office Procedures and Technologies</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 315</td>
<td>Today’s Office</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 232</td>
<td>Advanced Word Processing &amp; Desktop Pub.</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 32BB</td>
<td>Machine Transcription</td>
<td>2</td>
</tr>
<tr>
<td>OFADM 375</td>
<td>10-Key on the Computer</td>
<td>1</td>
</tr>
<tr>
<td>CMPGR 215</td>
<td>Business Presentation Graphics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 50</td>
<td>Business Math</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 32

A.A. Degree: Office Administration

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES – Complete 20 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 203B</td>
<td>Intermediate Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 231</td>
<td>Intermediate Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 311</td>
<td>Word Processing and Transcription</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 314</td>
<td>Office Procedures and Technologies</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 315</td>
<td>Today’s Office</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.A. MAJOR .................................................. 20

A.S. Degree: Office Administration

• To earn an Associate in Science Degree, the student must complete the Required courses for AA Degree, the 10 Elective units below, and the MJC Associate Degree Requirements. Student should consult with an Office Administration advisor for selection of Elective Units.

ELECTIVE COURSES – Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPGR 215</td>
<td>Business Presentation Graphics</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 310</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 232</td>
<td>Advanced Word Processing &amp; Desktop Pub.</td>
<td>3</td>
</tr>
</tbody>
</table>

Continued ©
Office Support Program

The Office Support Certificate is designed for students desiring to meet entry-level qualifications for office support positions which require keyboarding, telephone techniques, business document formatting, document organization, time management, word processing skills, Internet and e-mail protocol, and spreadsheet design.

Certificate: Office Support

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 27 units
OFADM 301 [NP] Beginning Keyboarding .........................1½
OFADM 302 [NP] Beginning Document Processing ..........1½
OFADM 203B [NP] Intermediate Keyboarding .................2
OFADM 330 [NP] Beginning Word Processing ................3
OFADM 231 [NP] Intermediate Word Processing .............3
CMPSC 278 [NP] Spreadsheet Software .....................3
OFADM 361 [NP] Introduction to Databases ....................1
OFADM 362 [NP] Introduction to Business Presentation Software ..........1
OFADM 353 [NP] Introduction to Windows .....................1

TOTAL UNITS FOR CERTIFICATE ................................................. 30

Office Computer Applications Program

The Office Computer Applications Certificate will be given for occupational preparation and/or career supplementation and/or career upgrade. These courses will help students meet the “computer” requirements needed for today’s office worker: keyboarding, advanced document preparation including mail merge and linking/embedding documents, spreadsheet design and analysis, computer presentation design, information management utilizing a database, and the Windows operating system.

Certificate: Office Computer Applications

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 17 units
OFADM 303 [NP] Keyboarding for Speed and Accuracy ..........1½
(May be repeated up to a maximum of 2 units)
OFADM 304 [NP] Professional English for Business ..........3
OFADM 305 [NP] Records Management .....................3
OFADM 375 [NP] 10-Key on the Computer ....................1
SUPR 351 [NP] Elements of Supervision .....................3

TOTAL UNITS IN A.S. MAJOR .......................................................... 30

Professional Selling Program

The Professional Selling Certificate program concerns itself with the activities that take place in the sale and distribution of goods and services in a world economy. It includes such areas of creative selling as marketing and business communication. Professional Selling is an important part of the marketing process. The salesperson must be able to interpret product and service features in terms of benefits and advantages to the consumer, and then persuade the buyer to select that product or service. In the Professional Selling Program, the student is trained for entry-level jobs in sales.

Certificate: Professional Selling

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 27 units
BUSAD 210 [NP] Business Communication .................3
BUSAD 245 [NP] Principles of Marketing ................3
MATH 50 [NP] Business Math ..................................3
SPCOM 100 [NP] Fundamentals of Public Speaking .......3
ENGL 101 [NP] Composition and Reading .................3 OR
ENGL 50 [NP] Basic Composition and Reading ...........3
BUSAD 201 [NP] Financial Accounting .....................4 OR
BUSAD 310 [NP] Bookkeeping 1 ................................3
BUSAD 259 [NP] Small Business Management ...........3
BUSAD 358 [NP] Sales and Ad Promotion ..................3

ADDITIONAL ELECTIVE COURSES - Complete 3 units
Any courses in Business Administration, Computer Science, or Office Administration

TOTAL UNITS FOR CERTIFICATE .................................................. 30
A.A. Degree: Real Estate

• To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 20 units
RLES 380  [1]  Real Estate Principles.........................3
RLES 382  [2]  Legal Aspects of Real Estate 1.............3
RLES 384  [3]  Real Estate Finance............................3
BUSAD 218  [1]  Business Law.................................4

TOTAL UNITS IN A.A. MAJOR ...................................... 20

A.S. Degree: Real Estate

• To earn an Associate in Science Degree, student must complete the 20 Required Units, 10 business Elective Units, and meet the MJC Associate Degree Requirements. Student should consult with a Real Estate advisor for selection of Elective Units.

REQUIRED COURSES - Complete 20 units
RLES 380  [1]  Real Estate Principles.........................3
RLES 382  [2]  Legal Aspects of Real Estate 1.............3
RLES 384  [3]  Real Estate Finance............................3
BUSAD 218  [1]  Business Law.................................4

ELECTIVE COURSES - Complete 10 units

TOTAL UNITS IN A.S. MAJOR ....................................... 30

Retail Management Program

The Retail Management Certificate Program is designed for individuals who are interested in or are currently employed in the retail industry and seek advancement into a managerial position in that field. Course work includes: retail store management, information systems, business mathematics, workplace writing, accounting, human resource management, marketing and business communications. Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All certificate Required Courses must be passed with a “C” grade or better. Interested students should consult division advisors.

Certificate: Retail Management (WAFC)

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 30 units.
MATH 50  [1]  Business Math....................................3
ENGL 50  [1]  Basic Composition and Reading............3 OR
ENGL 101  [NP]  Composition and Reading................3
CMPSC 201  [1]  General Computer Literacy.............3 OR
SPCOM 100  [1]  Fundamentals of Public Speaking.......3 OR
SPCOM 101  [NP]  Basic Voice Improvement..............3 OR

TOTAL UNITS FOR CERTIFICATE .................................. 30
Supervisory Management Program

The Supervisory Management Program is designed to prepare students for leadership responsibilities at the operating level in business, industry, and government. It also provides owners, managers, and other supervisory personnel with the opportunity to complete specific courses designed to develop management ability. Many of the courses are offered in the evening to accommodate working students who are interested in upgrading their skills.

Certificate: Supervisory Management

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPR 106</td>
<td>3</td>
<td>Organization Communication</td>
</tr>
<tr>
<td>SUPR 351</td>
<td>3</td>
<td>Elements of Supervision</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>3</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>SUPR 364</td>
<td>3</td>
<td>Total Quality Management</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 9 units

Any courses offered by Modesto Junior College. Student may choose to pursue a single discipline, however, it is not required.

**TOTAL UNITS FOR CERTIFICATE** ................................................. 21

A.S. Degree: Supervisory Management

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to completing the coursework below. Student should consult with a Supervisory Management advisor for selection of Elective Units.

**REQUIRED COURSES** - Complete 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPR 106</td>
<td>3</td>
<td>Organization Communication</td>
</tr>
<tr>
<td>SUPR 351</td>
<td>3</td>
<td>Elements of Supervision</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>3</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>SUPR 364</td>
<td>3</td>
<td>Total Quality Management</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 9 units

Any course in Business Administration, Computer Science, or Office Administration.

**TOTAL UNITS IN A.S. MAJOR** ............................................... 30

Word Processing Program

The Word Processing Certificate program is designed to teach students word processing skills and concepts. Students acquire the necessary competencies for the modern office. Word processing and Desktop publishing has become one of the fastest growing careers during the past decade. There are a wide variety of employment opportunities available.

Certificate: Word Processing

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 23 units

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 303</td>
<td>1</td>
<td>Keyboarding for Speed and Accuracy (twice at ½ unit)</td>
</tr>
<tr>
<td>OFADM 203C</td>
<td>1</td>
<td>Intermediate Keyboarding</td>
</tr>
<tr>
<td>OFADM 231</td>
<td>3</td>
<td>Intermediate Word Processing</td>
</tr>
<tr>
<td>OFADM 232</td>
<td>3</td>
<td>Advanced Word Processing &amp; Desktop Pub.</td>
</tr>
<tr>
<td>OFADM 311</td>
<td>3</td>
<td>Word Processing and Transcription</td>
</tr>
<tr>
<td>OFADM 314</td>
<td>3</td>
<td>Office Procedures and Technologies</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>3</td>
<td>Business Communication</td>
</tr>
<tr>
<td>CMPGR 215</td>
<td>3</td>
<td>Business Presentation Graphics</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPGR 214</td>
<td>3</td>
<td>Digital Capture for Computer Graphics</td>
</tr>
<tr>
<td>CMPGR 217</td>
<td>3</td>
<td>Computer Illustration Software</td>
</tr>
<tr>
<td>CMPGR 235</td>
<td>3</td>
<td>Image Manipulation Software</td>
</tr>
<tr>
<td>OFADM 383</td>
<td>3</td>
<td>Understanding the Internet</td>
</tr>
<tr>
<td>CMPGR 282</td>
<td>3</td>
<td>Exploring the World Wide Web</td>
</tr>
<tr>
<td>CMPGR 284</td>
<td>3</td>
<td>Publishing on the World Wide Web</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** ................................................. 32

**Note:** Not all courses are offered every semester; therefore, students should see an advisor for appropriate course sequence.
Lee Merchant grew up in a house next to Redwood's Greendale Park, directly across from the tennis courts, an ideal place for a girl who spent hours playing the game. Lee made the tennis team at Redwood Junior College, enjoying the camaraderie of the sport more than the competition. However, it was in her first Psychology class that Lee discovered a passion for the subject and a desire to teach. "I remember being silent and enjoying every topic covered in class as much as I was from tennis. I also thought the professor had the easiest job, getting to spend his days talking about something for which he was passionate." Four years later, when Lee was completing her master's degree in psychology at CSUS, she was asked at the last minute to teach a night course at MJC. She was thrilled by the opportunity and it wasn't until years later that she realized the college was going to actually pay her to teach the class. Lee began her studies focused on the research side of psychology, since then migrating towards the emotional side of "hearts" of psychology. Now she assigns her students the creation of a personalized Valentine's card as a project that promotes recognition and development of their own "emotional intelligence." Before becoming a full-time professor, Lee had a practice as a marriage and family therapist and taught part-time at MJC for 11 years. Although 90% of her time is now devoted to teaching, she credits counseling with enhancing her classroom instruction and her research from teaching in helping her be a better therapist. In addition to ballroom dancing and tennis, for the past couple of years Lee has been hiking the slopes for about 25 days of skiing each year. And when she can fit it in, this active mother of twin 16-year-old boys and a daughter in college, admits to a creative side expressed through knitting courses, crafting handmade cards and cooking Italian cuisine. Lee claims to be a veritable eater too, loving any recipe that includes cheese or cream. However, what she really likes is an inevitable spot for life.
Child Development Program

The Child Development program focuses on the growth and development of children from conception to late adolescence. Students use this knowledge to effectively guide children by creating nurturing learning environments, and by responding to the needs of children, families, staff, agencies, and the larger community. The Child Development program includes both theoretical and practical courses. Training prepares students for a wide variety of careers in direct services for children and support services for families.

Required coursework leads to certificates in a variety of professional areas, the Associate of Arts or the Associate of Science degrees, and transfer to four-year institutions. All Child Development core courses for degrees and/or certificates must be completed with a grade of “C” or better. This coursework is designed to meet the academic requirements of the California Early Start Community College Personnel Preparation Project in Early Intervention and the Child Development Permits, issued by the Commission on Teacher Credentialing (Title 5) and the California Department of Social Services (DSS Title 22).

The California Early Start Community College Personnel Preparation Project in Early Intervention and the Child Development Permit Matrix emphasize career and educational ladders that lead to the required training and experience for employment in licensed, state, and federal programs serving infants, children, and adolescents. Students should be advised that for the various levels of the Early Intervention Certificates and the Child Development Permits, there is an experience requirement and/or general education requirements. All required coursework, including both Child Development core courses and general education requirements, for the Early Intervention Certificates and the Child Development Permit must be completed with a grade of “C” or better. The Program Director Permit requires a Bachelor’s degree.

It is recommended that first semester students select courses from the Child Development Associate Teacher Certificate. Students are encouraged to consult a child development advisor for enrollment and program details. Advisors will assist students in the selection of proper courses and sequences.

A.A. Degree: Child Development

- To earn an Associate in Arts Degree, the student must complete the 24 required units for the program with a C or better and the MJC Associate Degree Requirements. See Child Development Program Matrix for program requirements.

REQUIRED CLDDV UNITS ....................................................... 24
TOTAL UNITS IN A.A. MAJOR ............................................... 24
# Child Development Program Matrix

The Child Development program focuses on the growth and development of children from conception to late adolescence. Students use this knowledge to effectively guide children in creating nurturing learning environments, and by responding to the needs of children, families, staff, agencies, and the larger community. The Child Development program includes both theoretical and practical courses. Training prepares students for a wide variety of careers in direct services for children and support services for families. Review the matrix below to see course requirements for each academic award, any corresponding State permits, and the recommended course sequence for each award.

<table>
<thead>
<tr>
<th>CLDDV DEGREES</th>
<th>CLDDV CERTIFICATES</th>
</tr>
</thead>
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<tr>
<td><strong>AA Degree</strong></td>
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<td>101</td>
</tr>
<tr>
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<td>103 or 104+105</td>
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<tr>
<td>107</td>
<td>107</td>
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<tr>
<td>109</td>
<td>109</td>
</tr>
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<td>121</td>
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<td>125</td>
</tr>
<tr>
<td>127C</td>
<td>127C</td>
</tr>
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<table>
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<td>125</td>
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<table>
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<table>
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</tbody>
</table>

### State of California Child Care Permits

**Permit Name**
- **Assistant**
- **Associate**
- **Teacher**
- **Master Teacher**

**Additional Coursework**
- **N/A**

**Hours**
- 50 days at 3+ hours per day within 2 years
- 175 days at 3+ hours per day within 2 years
- 350 days at 3+ hours per day within 4 years
- 350 days at 3+ hours per day within 4 years including 100+ days of supervising adults

**Early Start Community College Personnel Preparation Project**
- **Early Intervention Specialist 1**
- **Early Intervention Specialist 2**

### 6-UNIT OPTIONS (required for AS Degree and Master Teacher Certificate)

<table>
<thead>
<tr>
<th>Creative Curriculum</th>
<th>Early Intervention</th>
<th>Families and Culture</th>
<th>Family Child Care</th>
<th>Infant/Toddler</th>
<th>Literacy and Literature</th>
<th>School-Age and Paraprofessional</th>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Students may design their own Master Teacher specializations; however, all specializations for a permit are subject to approval by the California Commission on Teacher Credentialing.

Continued ▽
A.S. Degree: Child Development

To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements and all required courses for the program with a C or better. See Child Development Program Matrix for program requirements.

**REQUIRED CLDDV UNITS** ............................................................................. 26

**ELECTIVE CLDDV COURSES** ..................................................................... 6

**TOTAL UNITS IN A.S. MAJOR** ..................................................................... 32

Certificates in Child Development

The Certificates of Achievement in Child Development act as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California’s Early Start Program, A.A./A.S. degrees, and transfer to a university. Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing.

**Certificate: Assistant**

Aligns with: California “Assistant” Permit which authorizes the holder to care for and assist in the development and instruction of children in a childcare and development program under the supervision of a Child Development Permit (CDP) Associate Teacher, CDP Teacher, CDP Master Teacher, CDP Site Supervisor, or CDP Program Director. Students are prepared to apply for this permit, issued by the State of California, California Commission On Teacher Credentialing and have earned the MJC Child Development “Assistant” Certificate. See Child Development Program Matrix program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 6

**Certificate: Associate Teacher**

Aligns with: California “Associate Teacher” Permit which authorizes the holder to provide service in the care, development, and instruction of children in a childcare and development program, and supervise a CDP Assistant, and an aide. Students are prepared to apply for this permit, issued by the State of California, California Commission On Teacher Credentialing, when they have completed the required hours of work* and have earned the MJC Child Development “Associate Teacher” Certificate. See Child Development Program Matrix program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 12

**Certificate: Teacher**

Aligns with: California “Teacher” Permit which authorizes the holder to provide service in the care, development, and instruction of children in a childcare and development program, and supervise a CDP Associate Teacher, CDP Assistant, and an aide. Students are prepared to apply for this permit, issued by the State of California, California Commission On Teacher Credentialing, when they have completed the required hours of work*, plus 16 general education units in specific categories, and have earned the MJC Child Development “Teacher” Certificate. See Child Development Program Matrix program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 24

**Certificate: Master Teacher**

Aligns with: California “Master Teacher” Permit authorizes the holder to provide service in the care, development, and instruction of children in a childcare and development program, and supervise a CDP Teacher, CDP Associate Teacher, CDP Assistant, and an aide. The permit also authorizes the holder to serve as a coordinator of curriculum and staff development in a childcare and development program. Students are prepared to apply for this permit, issued by the State of California, California Commission on Teacher Credentialing, when they have completed the required hours of work*, plus 16 general education units in specific categories, plus 6 specialization units, plus 2 units in adult supervision, and have earned the MJC Child Development “Master Teacher” Certificate. As part of the MJC Certificate program, the student may choose one of the following options as a specialization or create a specialization. See Child Development Program Matrix for program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 24

**Certificate: Site Supervisor**

Aligns with: California “Site Supervisor” Permit authorizes the holder to supervise a childcare and development program operating at a single site; provide service in the care, development, and instruction of children in a childcare and development program; and serve as a coordinator of curriculum and staff development in a childcare and development program. Students are prepared to apply for this permit, issued by the State of California, California Commission on Teacher Credentialing, when they have completed the required hours of work*, plus 16 general education units in specific categories, plus 6 units in administration, plus 2 units in adult supervision, and have earned an Associate Degree with a concentration in Child Development or have earned 60 units including 24 ECE/CD units including core courses in specific categories. See Child Development Program Matrix for program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 32

**Certificate: Teacher/Early Intervention Assistant 1**

Reflects the Early Intervention Assistant Personnel Competencies for California’s Early Start Program. The Early Intervention Assistant 1 assists in providing direct Early Intervention program services and assists in conducting observations and assessments in group settings under direct visual supervision of an Early Interventionist I or II. See Child Development Program Matrix for program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 24

**Certificate: Teacher/Early Intervention Assistant 2**

Reflects the Early Intervention Assistant Personnel Competencies for California’s Early Start Program. The Early Intervention 2 provides direct Early Intervention program services and assists in conducting observations and assessments in a center or home setting with weekly face-to-face supervision of an Early Interventionist I or II. See Child Development Program Matrix for program requirements.

**TOTAL UNITS FOR CERTIFICATE** ............................................................... 24

Continued...
Culinary Arts Program

Certificate: Culinary Arts

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 28 units
- CLART 301 Culinary Academy 1 .............................................. 14
- CLART 302 Culinary Academy 2 .............................................. 14

**TOTAL UNITS FOR CERTIFICATE** ........................................ 28

A.S. Degree: Culinary Arts

- To earn an Associate in Science Degree in Culinary Arts, student must complete the coursework below, in addition to meeting the MJC Associate Degree Requirements.

**REQUIRED COURSES** - Complete 28 units
- CLART 301 Culinary Academy 1 .............................................. 14
- CLART 302 Culinary Academy 2 .............................................. 14

**ELECTIVE COURSES** - Complete 2 units
- FDTR 219 Nutrition ................................................................. 3
- FDTR 351 Practical Nutrition ................................................... 3
- FDSR 323 Catering ................................................................. 2

**TOTAL UNITS FOR MAJOR** .................................................... 30

Certificate of Completion: CLART 301

- This Certificate of Completion is awarded through the Culinary Arts program. Upon completion, certificate will be granted by the instructor.

**REQUIRED COURSE** - Complete 14 units
- CLART 301 Culinary Academy 1 .............................................. 14

**TOTAL UNITS FOR CERTIFICATE OF COMPLETION** .............. 14

Family & Consumer Sciences Program

A.A. Degree: Family & Consumer Sciences

- To earn an Associate in Arts Degree, student must complete the 20 Required Units and meet the MJC Associate Degree Requirements.

**REQUIRED COURSES** - Complete 20 units
- Culinary Academy 1 ............................................................... 14
- Culinary Academy 2 ............................................................... 14

**TOTAL UNITS FOR MAJOR** .................................................... 30

A.S. Degree: Family & Consumer Sciences

- To earn an Associate in Science Degree, student must complete the 30 Required Units and meet the MJC Associate Degree Requirements.

**REQUIRED COURSES** - Complete 30 units
- Nutritional Science ................................................................. 3
- Practical Nutrition ................................................................. 3
- Catering .................................................................................. 2

**TOTAL UNITS IN A.A. MAJOR** .................................................. 20

**TOTAL UNITS IN A.S. MAJOR** ................................................... 30

Interior Design Program

Interior Design is a profession dedicated to the thoughtful and intelligent design of building interiors. This dynamic field addresses interior function and aesthetics, lifestyles, technology, historical perspectives, environmental needs, demographic changes, legislative issues and universal design. Academic and technical preparation for this career includes analysis and synthesis of user needs, business, communication and technology skills, and the development and expression of creativity.

The MJC Interior Design program adheres to the standards and competencies contained in the California Community College Family and Consumer Science Program Plan for Interior Design. It is a comprehensive, accredited, multi-level professional curriculum that provides courses focusing on the vital and basic aspects of interior design, and linking these aspects to the visual and creative arts. In addition to the Associate degree, the MJC program offers a Certificate of Achievement to provide an alternative for those who wish to enter the workforce directly or transition from another field.
About Careers in Interior Design
The profession of Interior Design offers a variety of specializations including, but not limited to:

- Residential, Commercial, and Institutional Design
- Kitchen and Bath Design
- Hospitality and Restaurant design
- Facility Management
- Education and Research
- Furniture, Textile and Product Design
- Universal, Lifetime, and Sustainable Design
- Historic Preservation
- Space Planning
- Computer Aided Drafting and Design
- Specifying
- Lighting Design
- Writing and Illustrating

How to Become A Certified Interior Designer
All Certified Interior Designers must meet an education, work experience and examination requirement. Depending on the amount of education and preparation you plan to have, certification will fall into specific categories, providing that you have evidence of passage of the required exams.

CATEGORY A
- Graduate of a four or five year accredited interior design program;
- Two years of diversified interior design experience;

CATEGORY B
- Completion of a 3-year accredited interior design certificate program;
- Three years of diversified interior design experience;

CATEGORY C
- Completed a 2- year accredited interior design certificate program;
- Four years of diversified interior design experience;

CATEGORY D
- A combination of interior design education and/or diversified interior design experience totaling eight years or more

REQUIRED EXAMINATIONS
All Certified Interior Designers are required to pass the Level 1 exam and one of the Level 2 exams

LEVEL 1 EXAMINATION
The California Codes and Regulations Exam (CCRE) will test candidates specifically on California building and accessibility codes relative to interior design, both commercial and residential. It covers California fire codes, technical bulletins issued by the Bureau of Home Furnishings, civil law relative to the practice of interior design, ethics, business procedures and practices.

LEVEL 2 EXAMINATION
In addition to passing the CCRE, a candidate must also pass one of the three accepted national interior design examinations listed below:

- The CQRID Exam (Council for Qualification of Residential Interior Designers). For more information, visit www.cqrid.org
- The NCIDQ exam (National Council for Interior Design Qualification). For registration information visit www.ncidq.org
- NKBA exam sequence (National Kitchen and Bath Association) includes two portions (below) that must be passed, in addition to the required academic portion in order to qualify for Level 2 completion. For more information, visit www.nkba.org.

APPLYING FOR STATE CERTIFICATION
While you may apply for Certification at any time, your application will not be fully processed until you meet all of the above-listed requirements.

Program Matrix

<table>
<thead>
<tr>
<th>Associate Degrees</th>
<th>Certificate</th>
</tr>
</thead>
<tbody>
<tr>
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<td>AS Degree</td>
</tr>
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<tr>
<td>FASMR 365........(3)</td>
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<th>Required Units in Major</th>
<th>Plus Additional Major Elective* Units</th>
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CCIDC Requirements for Voluntary Certification of Interior Designers
(California Council for Interior Design Certification)

<table>
<thead>
<tr>
<th>Completion of Additional Interior Design Units</th>
<th>Years of diversified experience</th>
<th>Successful Completion of the Level 1 Exam</th>
<th>+ CCRE Exam</th>
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<tbody>
<tr>
<td>+ 13</td>
<td>+ 4 Years</td>
<td>+ 24</td>
<td>+ CCRE Exam</td>
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<table>
<thead>
<tr>
<th>Application for Certification</th>
<th>+ NKBA Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ Application</td>
<td>Certification as an Interior Designer by the CCIDC</td>
</tr>
</tbody>
</table>

*INTDS Elective Courses:

- INTDS 201
- INTDS 202
- INTDS 205
- INTDS 240
- INTDS 250
- INTDS 260
- INTDS 373
- INTDS 375
I am...
a powerful storyteller
a lover of humanity
a survivor of cancer

...I am MJC!

"There's no other place like MJC. I'm surrounded here by so many self-actualized people committed to the betterment of mankind. We really have something special going on here."

Janell Glance
MJC Professor of Speech

Janell Glance was born in Frankfurt, Germany and lived in several locations in Europe and southern California as her family followed her father's Army Colonel career. This exposure to a multitude of cultures and countries provided a marvelous adventure for Janell, infusing her with a great love for people from all walks of life. As ten years old she read a book on dolphins and fell in love with sea mammals, dreaming of becoming a marine biologist. After high school, Janell was accepted to study at the Virgin Islands School of Biology. She never enrolled, however. Her grandmother was diagnosed with cancer and Janell put her dreams on hold to stay close in family, enrolling in Riverside Community College. There she took her first speech class and had a personal revelation — she had a natural gift for interpersonal communication and storytelling. Janell also discovered she could use her gift to improve the world through teaching others to be effective speakers — how to open up and share their thoughts and experiences. She describes her first experience teaching speech as "as comfortable as putting on my favorite pair of jeans." Unlike her son in the classroom, Janell's personal life has been far from easy. Diagnosed with cancer, she has twice battled the disease into remission. Yet, this resilient optimist continues to be exhilarated by life, calling herself "fortunate" and always putting her difficulties into perspective. "Cancer doesn't compare with being a Holocaust or a traumatic survivor." Janell is much more than a survivor; she's a thriver, and a giver of hope, compassion and the opportunity to learn how to speak about the important things in one's life.
Educational Programs in

Literature & Language Arts

Division Information

Founders Hall 275A
(209) 575-6149

Brenda Robert, PhD.,
Division Dean

J. Patrick Wall, PhD.,
Director, Basic Skills

FACULTY

James Beggs, PhD.
Patrick Bettencourt
Christopher Briggs
Ines Bucknam
Michelle Christopherson
Shelley Circle
Marcos Contreras, PhD.
Jillian Daly
Mara Fagin
Marianne Franco, PhD.

Deborah Gilbert, PhD.
Janelle Gray
Annaiese Hauser-Akpo
Timothy Hobert
Rose Lee Hurst
Barbara Jensen
Dimtri Keriotis
Ingrid Keriotis
Ruth Luman
Emily Malsam
Kimberly Manner, PhD.
Laura Manzo
G. Daniel Martin
Evelyn Metcalf
Jeffrey Netto, PhD.
Jenny Netto
Optimism One
Daniel Onorato
Adrienne Peek

Samuel Pierstorff
Nivedita Rajagopal
Lawrence Scheg
Dorothy Scully
Michael Smedshammer, PhD.
Ann Smith
E. Denise Smith
Gabriele Steiner
Michael Strangio
Lillian Valle, PhD.
Barbara Wells
Barbara (BJ) Wells
Thomas West
Theron Westrope, PhD.
Jason Wohlstadter, PhD.

SUPPORT STAFF

Silvana Paddock Morris,
Admin.Secretary

INSTRUCTIONAL SUPPORT STAFF

Spanish, AA
Shakespeare Academy, C
Foreign Language, AA

Degrees and/or Certificates offered in the following areas:

- English, AA
- Foreign Language, AA
- Shakespeare Academy, C
- Spanish, AA

INSTRUCTIONAL SUPPORT STAFF

Mary Calderon, Lab Asst. I
Lisa Vilkofsky, Lab. Asst. I
John Has-Ellison, Inst. Asst. II
Jacqueline Jordan, Inst. Asst. II
Elmo Maragol, Lab Asst. II
Susanne McBride, Inst. Asst. II
Theresa Stovall, Lab Asst. I

English Program

For those who love to read, write, interpret, and create, majoring or minoring in English is the right choice. English courses are designed to give proficiency in skills that are highly regarded by society: the ability to read with comprehension and critical judgment; to communicate accurately and effectively both orally and in writing; to think logically; to do research and organize materials; and to interpret and appreciate literature.

The English major can lead to a career in teaching as well as in professional fields such as law, publishing, information science, and business. In addition to pre-collegiate composition courses (English 49 and English 50) and transfer-level courses (English 101, 102, and 103), the English program includes survey courses in English, American and world literature; introductory genre courses in poetry, fiction, and drama; and a number of topical courses such as Shakespeare, Bible as literature, ethnic literatures, folklore, and children’s literature. The program also offers creative writing courses in poetry, fiction, and script writing. English majors choose to take survey, writing, and literature courses based upon their areas of interest, but they should include a balanced load of genre and survey courses. Many students who become English majors at four-year colleges and universities are required to take introductory survey courses in American and British literature (English 135, English 136, English 137, and English 138). However, prospective English majors and minors are strongly urged to discuss their plans with MJC counselors and English faculty advisors regarding the specific lower-division requirements at the four-year colleges and universities they plan to attend.

A.A. Degree: English

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 9 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>[NP] Composition and Reading</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>[NP] Advanced Composition and Introduction to Literature</td>
</tr>
<tr>
<td>ENGL 103</td>
<td>[NP] Advanced Composition and Critical Thinking</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - Complete 11 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 105</td>
<td>[NP] Creative Writing: Poetry</td>
</tr>
<tr>
<td>ENGL 106</td>
<td>[NP] Creative Writing: Short Fiction</td>
</tr>
<tr>
<td>ENGL 108</td>
<td>[NP] Creative Writing: Autobiography</td>
</tr>
<tr>
<td>ENGL 109</td>
<td>[NP] Creative Writing: Scriptwriting</td>
</tr>
</tbody>
</table>

Continued...
ENGL 112 [NP] Introduction to the Novel and Short Story ............... 3
ENGL 114 [NP] Introduction to Poetry ...................................... 3
ENGL 116 [NP] Introduction to Drama ....................................... 3
ENGL 131 [NP] Introduction to World Literature to 1500 .............. 3
ENGL 132 [NP] Introduction to World Literature from 1500 to Present .. 3
ENGL 135 [NP] American Literature: to 1850 .............................. 3
ENGL 136 [NP] American Literature: 1850 to Present .................. 3
ENGL 137 [NP] Survey of English Literature to the 18th Century ....... 3
ENGL 138 [NP] Survey of English Literature: 18th Century to the Present ............................................ 3
ENGL 151 [NP] Folklore ......................................................... 3
ENGL 156 [NP] The Bible as Literature -- The Hebrew Canon and Intertextual Writings .................................................. 3
ENGL 157 [NP] The Bible as Literature -- The New Testament ......... 3
ENGL 161 [NP] Film Appreciation ............................................ 3
ENGL 162 [NP] History of Cinema ............................................. 3
ENGL 163 [NP] Introduction to Shakespeare ................................ 3
ENGL 168 [NP] Adolescent Literature ....................................... 3
ENGL 169 [NP] Children’s Literature ......................................... 3
ENGL 171 [NP] Introduction to African-American Literature .......... 3
ENGL 172 [NP] Introduction to Chicano Literature ....................... 3
ENGL 173 [NP] Introduction to Latin American Literature .......... 3
ENGL 174 [NP] Introduction to Modern Asian Literature .............. 3
ENGL 175 [NP] Women in Literature ......................................... 3
ENGL 176 [NP] Introduction to Mexican Literature ....................... 3
ENGL 178 [NP] Mass Media and the Public ................................ 3
ENGL 179 [NP] Introduction to Native American Literature, Mythology, and the Oral Tradition ......................... 3
ENGL 183 [NP] Introduction to Tutoring Composition ................... 2
ENGL 184 [NP] Advanced Tutoring of Composition ................. 2
ENGL 198 [NP] Special Topics in English .................................. 3

TOTAL UNITS IN A.A. MAJOR .................................................. 20

Foreign Language Program

The Literature and Language Arts Division offers a complete lower-division transfer-level program in French, German, and Spanish. Non-transfer conversational courses in French, German, Italian, Portuguese, and Spanish are also offered. Student may earn an Associate degree based on completion of 20 units of foreign language study. Transfer majors in foreign language or in a specific language may complete their lower division requirements. Prospective transfer majors should consult with a foreign language faculty advisor about specific requirements of the baccalaureate institution.

A.A. Degree: Foreign Language

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to meeting the requirements below.

REQUIRED - Complete 20 units
20 units of coursework in one or more foreign languages

TOTAL UNITS IN A.A. MAJOR .................................................. 20

Shakespeare Academy Program

Certificate:
Shakespeare Academy

- To earn a Certificate of Achievement, the student must complete the coursework that follows. Each course must be completed with a C or better.

REQUIRED COURSES - Complete 6 units
ENGL 163 [2] Introduction to Shakespeare ................................ 3
THETR 100 [1] Introduction to Theatre Arts ............................ 3

ELECTIVE COURSES - Complete 11 units
HUMAN 101 [1] Introduction to the Humanities ......................... 3
ENGL 102 [1] Advanced Composition and Introduction to Literature 3
ENGL 116 [3] Introduction to Drama ....................................... 3
ENGL 137 [4] Survey of English Literature to the 18th Century .... 3
THETR 120 [2] Oral Reading and Interpretation .......................... 3
THETR 161 [2] Intermediate Acting ......................................... 3

TOTAL UNITS FOR CERTIFICATE ............................................. 17

Spanish Program

A.A. Degree: Spanish

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework:

REQUIRED PREPARATORY COURSES – Complete 8 Units
SPAN 102 [1] Spanish 2 ....................................................... 4
SPAN 103 [1] Spanish 3 ....................................................... 4
SPAN 104 [1] Spanish 4 ....................................................... 4
* Challenge exams accepted for credit

REQUIRED COURSES – Complete 7 Units
SPAN 109 [2] Spanish for Spanish Speakers 1 ......................... 4
SPAN 110 [NP] Spanish for Spanish Speakers 2 ...................... 4
SPAN 112 [NP] Intro. to Spanish and Chicano Literature .......... 3 OR
SPAN 173 [NP] Survey of Latin American Literature ............... 3

ELECTIVE COURSES – Complete 5 Units
ENGL 172 [NP] Introduction to Chicano Literature ................... 3
ENGL 173 [NP] Introduction to Latin American Literature .......... 3
HIST 125 [NP] History of Mexico ......................................... 3
HIST 145 [NP] Latin American History .................................... 3
SOCIO 156 [NP] Mexican Culture in the United States ............. 3
ANTHR 161 [NP] Families in Latin American Cultures ............. 1

TOTAL UNITS IN A.A. MAJOR .................................................. 20
The Athletic Training/Sports Medicine program at MJC is designed to prepare students for appropriate procedures in prevention, care, and rehabilitation of athletic injuries. This degree is also designed to transfer students to four-year institutions where they can continue their education to fulfill the requirements of the National Athletic Trainer’s Association. This will lead to the student’s eventual eligibility to challenge the national examination, and upon Satisfactory completion of the Required Courses and passing the exam, become a Certified Athletic Trainer.

**Athletic Training/ Sports Medicine Program**

The Athletic Training/Sports Medicine program at MJC is designed to prepare students for appropriate procedures in prevention, care, and rehabilitation of athletic injuries. This degree is also designed to transfer students to four-year institutions where they can continue their education to fulfill the requirements of the National Athletic Trainer’s Association. This will lead to the student’s eventual eligibility to challenge the national examination, and upon Satisfactory completion of the Required Courses and passing the exam, become a Certified Athletic Trainer.

**A.S. Degree:**

**Athletic Training/ Sports Medicine**

- To earn an Associate in Science degree, students must complete the following coursework and meet the MJC Associate Degree Requirements. Courses should be selected with the assistance of an Athletic Training faculty advisor.

**REQUIRED COURSES** - Complete 28 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 108 [1]</td>
<td>Care and Prevention of Athletic Injuries 3</td>
</tr>
<tr>
<td>HE 110 [NP]</td>
<td>Healthful Living 3</td>
</tr>
<tr>
<td>ANAT 125 [3]</td>
<td>Human Anatomy 4</td>
</tr>
<tr>
<td>PHYSO 101 [4]</td>
<td>Introduction to Human Physiology 4</td>
</tr>
<tr>
<td>CHEM 143 [1,2]</td>
<td>Introduction to College Chemistry 5</td>
</tr>
<tr>
<td>FDNTR 219 [1]</td>
<td>Food and Nutrition 3</td>
</tr>
<tr>
<td>PSYCH 101 [1,2]</td>
<td>General Psychology 3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101 [NP]</td>
<td>Biological Principles 5</td>
</tr>
<tr>
<td>BIO 111 [NP]</td>
<td>General Biology 4</td>
</tr>
<tr>
<td>PE 141 [2,3 or 4]</td>
<td>Supervision in Athletic Training 2</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR A.S. MAJOR** 31
# Programs in Physical Education

## Physical Education Program

### A.A. Degree: Physical Education

- To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

#### REQUIRED COURSES - Complete 15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 100</td>
<td>Introduction to Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 108</td>
<td>Care and Prevention of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PE 109</td>
<td>Peak Performance Through Mental Training</td>
<td>3</td>
</tr>
<tr>
<td>PE 110</td>
<td>Officiating: Spring Sports</td>
<td>3 OR</td>
</tr>
<tr>
<td>PE 115</td>
<td>Officiating: Fall Sports</td>
<td>3</td>
</tr>
<tr>
<td>HE 101</td>
<td>Advanced First Aid and Emergency Care</td>
<td>3</td>
</tr>
</tbody>
</table>

#### ELECTIVE COURSES - Complete 5 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 101</td>
<td>Basketball Theory</td>
<td>1</td>
</tr>
<tr>
<td>PE 102</td>
<td>Offensive Football Theory</td>
<td>2</td>
</tr>
<tr>
<td>PE 103</td>
<td>Track and Field Theory</td>
<td>1</td>
</tr>
<tr>
<td>PE 104</td>
<td>Wrestling Theory</td>
<td>1</td>
</tr>
<tr>
<td>PE 105</td>
<td>Defensive Football Theory</td>
<td>2</td>
</tr>
<tr>
<td>PE 106</td>
<td>Offensive Baseball Theory</td>
<td>2</td>
</tr>
<tr>
<td>PE 107</td>
<td>Defensive Baseball Theory</td>
<td>2</td>
</tr>
<tr>
<td>PE 110</td>
<td>Application of Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>PE 111</td>
<td>Officiating: Spring Sports</td>
<td>3</td>
</tr>
<tr>
<td>PE 113</td>
<td>Offensive/Defensive Softball Theory</td>
<td>1</td>
</tr>
<tr>
<td>PE 114</td>
<td>Cross Country Concepts</td>
<td>1</td>
</tr>
<tr>
<td>PE 115</td>
<td>Officiating: Fall Sports</td>
<td>3</td>
</tr>
<tr>
<td>PE 116</td>
<td>Football Team Play Concepts</td>
<td>2</td>
</tr>
<tr>
<td>PE 121</td>
<td>Coaching Effectiveness</td>
<td>3</td>
</tr>
</tbody>
</table>

#### 1-5 units of PE activity classes from the following list

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEA 102</td>
<td>Adaptive Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>PEA 104</td>
<td>Adapted Strength Development</td>
<td>1</td>
</tr>
<tr>
<td>PEA 106</td>
<td>Functional Water Exercise</td>
<td>1</td>
</tr>
<tr>
<td>PEA 107</td>
<td>Adapted Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PEA 108</td>
<td>Adapted Aquatics</td>
<td>1</td>
</tr>
<tr>
<td>PEA 116</td>
<td>Adapted Run/Walk</td>
<td>1</td>
</tr>
<tr>
<td>PEA 119</td>
<td>Adapted Sports</td>
<td>1</td>
</tr>
<tr>
<td>PEA 154</td>
<td>Back Basics</td>
<td>1</td>
</tr>
<tr>
<td>PEC 141</td>
<td>Adaptive Fitness</td>
<td>1</td>
</tr>
<tr>
<td>PEC 102</td>
<td>Water Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>PEC 106</td>
<td>Badminton</td>
<td>½</td>
</tr>
<tr>
<td>PEC 108</td>
<td>Deep Water Aerobics</td>
<td>½</td>
</tr>
<tr>
<td>PEC 111</td>
<td>Beginning Racquetball</td>
<td>½</td>
</tr>
<tr>
<td>PEC 112</td>
<td>Intermediate Racquetball</td>
<td>½</td>
</tr>
<tr>
<td>PEC 118</td>
<td>Bowling</td>
<td>½</td>
</tr>
<tr>
<td>PEC 122</td>
<td>Beginning Modern Dance</td>
<td>½</td>
</tr>
<tr>
<td>PEC 123</td>
<td>Intermediate Modern Dance</td>
<td>½</td>
</tr>
<tr>
<td>PEC 124</td>
<td>Advanced Modern Dance</td>
<td>½</td>
</tr>
<tr>
<td>PEC 126</td>
<td>Jazz Dance</td>
<td>½</td>
</tr>
<tr>
<td>PEC 128</td>
<td>Aerobics</td>
<td>½</td>
</tr>
<tr>
<td>PEC 130</td>
<td>International Folk Dance</td>
<td>½</td>
</tr>
<tr>
<td>PEC 133</td>
<td>Ballet 1</td>
<td>½</td>
</tr>
<tr>
<td>PEC 134</td>
<td>Contact Improvisation</td>
<td>½</td>
</tr>
<tr>
<td>PEC 140</td>
<td>Exercise for Fitness</td>
<td>½</td>
</tr>
<tr>
<td>PEC 141</td>
<td>Fitness for Special Populations</td>
<td>1</td>
</tr>
<tr>
<td>PEC 143</td>
<td>Beginning Golf</td>
<td>½</td>
</tr>
<tr>
<td>PEC 144</td>
<td>Intermediate Golf</td>
<td>½</td>
</tr>
<tr>
<td>PEC 145</td>
<td>Advanced Golf</td>
<td>½</td>
</tr>
<tr>
<td>PEC 147</td>
<td>Gymnastics</td>
<td>½</td>
</tr>
<tr>
<td>PEC 148</td>
<td>Yoga for Better Health</td>
<td>½</td>
</tr>
</tbody>
</table>

#### PEC 150 [NP] Intermediate Yoga for Better Health | ½ |
#### PEC 159 [NP] Spirit Leadership Training | ½ |
#### PEC 164 [NP] Self-Defense | ½ |
#### PEC 167 [NP] Paddle Tennis/Pickleball | ½ |
#### PEC 168 [NP] Beginning Swimming | ½ |
#### PEC 170 [NP] Advanced Swimming | ½ |
#### PEC 171 [NP] Swim for Fitness | ½ |
#### PEC 172 [NP] Lifeguard Training | 1 |
#### PEC 173 [NP] Water Safety Instructor | 1 |
#### PEC 174 [NP] Table Tennis | ½ |
#### PEC 175 [NP] Beginning Tennis | ½ |
#### PEC 176 [NP] Intermediate Tennis | ½ |
#### PEC 177 [NP] Advanced Tennis | ½ |
#### PEC 178 [NP] Tournament Tennis | ½ |
#### PEC 179 [NP] Track and Field | ½ |
#### PEC 182 [NP] Training for Distance Running | ½ |
#### PEC 183 [NP] Volleyball | ½ |
#### PEC 184 [NP] Power Volleyball | ½ |
#### PEC 185 [NP] Hiking | ½ |
#### PEC 187 [NP] Pilates for Fitness | ½ |
#### PEC 190 [NP] Advanced Water Polo | ½ |
#### PEC 191 [NP] Power Lifting | ½ |
#### PEC 195 [NP] Weight Training | ½ |
#### PEC 197 [NP] Advanced Weight Training | ½ |
#### PEM 108 [NP] Baseball | ½ |
#### PEM 111 [NP] Baseball Team Play Concepts | ½ |
#### PEM 112 [NP] Beginning Basketball | ½ |
#### PEM 113 [NP] Intermediate Basketball | ½ |
#### PEM 114 [NP] Advanced Basketball | ½ |
#### PEM 115 [NP] Basketball Team Play Concepts | ½ |
#### PEM 140 [NP] Touch Football and Kanaki | ½ |
#### PEM 141 [NP] Advanced Touch Football | ½ |
#### PEM 162 [NP] Soccer | ½ |
#### PEM 196 [NP] Advanced Wrestling | ½ |
#### PEW 116 [NP] Exercise for Healthy Living | ½ |
#### PEW 164 [NP] Women’s Indoor-Outdoor Soccer | ½ |
#### PEW 166 [NP] Women’s Self-Defense | ½ |
#### PEW 180 [NP] Women’s Softball | ½ |
#### PEW 192 [NP] Women’s Weight Training | ½ |
#### PEVM 100 [NP] Varsity Baseball | 3 |
#### PEVM 105 [NP] Men’s Varsity Basketball (Fall) | 3 |
#### PEVM 106 [NP] Men’s Varsity Basketball (Spring) | ½ |
#### PEVM 110 [NP] Men’s Varsity Cross-Country | 3 |
#### PEVM 115 [NP] Varsity Football | 3 |
#### PEVM 120 [NP] Men’s Varsity Golf | 3 |
#### PEVM 122 [NP] Men’s Varsity Soccer | 3 |
#### PEVM 125 [NP] Men’s Varsity Swimming and Diving | 3 |
#### PEVM 130 [NP] Men’s Varsity Tennis | 3 |
#### PEVM 135 [NP] Men’s Varsity Track Field | 3 |
#### PEVM 140 [NP] Men’s Varsity Water Polo | 3 |
#### PEVM 145 [NP] Varsity Wrestling | 3 |
#### PEWV 100 [NP] Women’s Varsity Basketball (Fall) | 3 |
#### PEWV 101 [NP] Women’s Varsity Basketball (Spring) | ½ |
#### PEWV 103 [NP] Women’s Varsity Cross-Country | 3 |
#### PEWV 115 [NP] Women’s Varsity Golf | 3 |
#### PEWV 120 [NP] Women’s Varsity Softball | 3 |
#### PEWV 123 [NP] Women’s Varsity Soccer | 3 |
#### PEWV 125 [NP] Women’s Varsity Swimming and Diving | 3 |
#### PEWV 130 [NP] Women’s Varsity Tennis | 3 |
#### PEWV 135 [NP] Women’s Varsity Track and Field | 3 |
#### PEWV 140 [NP] Women’s Varsity Volleyball | 3 |
#### PEWV 145 [NP] Women’s Varsity Water Polo | 3 |

**TOTAL UNITS IN A.A. MAJOR** ......................................................... 20
### Educational Programs in Public Safety

#### Division Information
Morris Memorial 204  
(209) 575-6887  
George Boodrookas  
Division Dean

#### SUPPORT STAFF
- Bobbie Jantz, Administrative Secretary  
- Gail Campbell, Secretary II  
- Virgil Atchison, Range Coordinator  
- Tom Davis, Program Asst/Facility Oper.

#### Degrees and/or Certificates offered in the following areas:
- Fire Academy C  
- Fire Science, C  
- Law Enforcement Academy, C  
- Basic Academy (Certificate of Completion)

### Fire Academy Program

#### Certificate of Completion: Fire Academy
The **Fire Academy Completion Certificate** verifies the Satisfactory completion of the educational standards for Fire Fighter 1. The Academy does not meet the experience requirement for State Fire Marshal certification, but it does meet the educational and training requirements. Completion Certificate will be provided by the Public Safety division.

#### REQUIRED PREPARATION
- Satisfactory completion of FSCI 301 or equivalent with a grade of C or better  
- Satisfactory completion of agility test provided by Fire Science Department  
- Physician's statement of student health

#### REQUIRED COURSE - Complete 15 units
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 362</td>
<td>2</td>
<td>Basic Fire Academy</td>
</tr>
</tbody>
</table>

### Fire Science Program

#### Certificate: Fire Science
- To earn a Certificate of Achievement, the student must complete the coursework as indicated below. Each course must be completed with a grade of C or better.

#### REQUIRED COURSE - Complete 3 units
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 301</td>
<td>1</td>
<td>Fire Protection Organization</td>
</tr>
</tbody>
</table>

#### ELECTIVE COURSES - Complete 27 units
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 302</td>
<td>2</td>
<td>Fire Prevention Technology</td>
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<tr>
<td>FSCI 303</td>
<td>2</td>
<td>Fire Protection Equipment and Systems</td>
</tr>
<tr>
<td>FSCI 304</td>
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<td>Building Construction for Fire Protection</td>
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<td>FSCI 305</td>
<td>1</td>
<td>Fire Behavior and Combustion</td>
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<tr>
<td>FSCI 322</td>
<td>4</td>
<td>Fire Science Career Dev./Promotions</td>
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<tr>
<td>FSCI 323</td>
<td>4</td>
<td>Fire Hydraulics</td>
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<td>FSCI 327</td>
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<td>Fire Apparatus and Equipment</td>
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<td>FSCI 328</td>
<td>4</td>
<td>Investigation of Fires</td>
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<tr>
<td>FSCI 332</td>
<td>3</td>
<td>Fire Fighting Tactics and Strategy</td>
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<tr>
<td>FSCI 336</td>
<td>3</td>
<td>Rescue Practices</td>
</tr>
<tr>
<td>FSCI 337</td>
<td>3</td>
<td>Wildland Fire Control</td>
</tr>
<tr>
<td>FSCI 346</td>
<td>NP</td>
<td>Instructional Methods for Fire Training Officers</td>
</tr>
<tr>
<td>FSCI 347</td>
<td>NP</td>
<td>Fire Prevention 1C</td>
</tr>
<tr>
<td>FSCI 348</td>
<td>NP</td>
<td>Public Fire Education 1</td>
</tr>
<tr>
<td>FSCI 350</td>
<td>NP</td>
<td>Fire Command 1A</td>
</tr>
<tr>
<td>FSCI 351</td>
<td>NP</td>
<td>Fire Command 1B</td>
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<tr>
<td>FSCI 352</td>
<td>NP</td>
<td>Fire Instructor 1A</td>
</tr>
<tr>
<td>FSCI 353</td>
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<td>Fire Instructor 1B</td>
</tr>
<tr>
<td>FSCI 354</td>
<td>NP</td>
<td>Fire Prevention 1A</td>
</tr>
<tr>
<td>FSCI 355</td>
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<td>Fire Prevention 1B</td>
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<td>FSCI 356</td>
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<td>Fire Management 1</td>
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<td>FSCI 362</td>
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<td>Basic Fire Academy</td>
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<td>FSCI 364</td>
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<td>Driver Operator 1</td>
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<tr>
<td>FSCI 365</td>
<td>NP</td>
<td>Emergency Aid First Responder</td>
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<tr>
<td>FSCI 371</td>
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<tr>
<td>FSCI 372B</td>
<td>NP</td>
<td>Fire Management 2B</td>
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<tr>
<td>FSCI 373</td>
<td>NP</td>
<td>Fire Instructor 2A</td>
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<td>FSCI 374</td>
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<td>Fire Instructor 2B</td>
</tr>
<tr>
<td>FSCI 398</td>
<td>NP</td>
<td>Fire Science Special Topics</td>
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<tr>
<td>EMS 390</td>
<td>1</td>
<td>Emergency Medical Technician 1</td>
</tr>
<tr>
<td>EMS 391</td>
<td>NP</td>
<td>Emergency Medical Tech. 1 (Refresher)</td>
</tr>
<tr>
<td>NR 379</td>
<td>NP</td>
<td>Wildland Fire Control</td>
</tr>
</tbody>
</table>

Continued...
Law Enforcement Reserve Officer Program

• Meets the educational and training standards mandated by the California Penal Code for law enforcement reserve officers.

**RESTRICTIONS**

• Program is not open to individuals who have been convicted of a felony, certain misdemeanor violations, or who are mental patients.

Certificate of Completion: Basic Academy

**REQUIRED COURSES** - Complete 20½ units

- LENT 309 [NP] P.C. 832: Arrest Course .................................................. 2
- LENT 310 [NP] P.C. 832: Firearms Course ........................................... ½
- LENT 316 [NP] Law Enforcement Reserve Module Level III ................... 3
- LENT 317 [NP] Law Enforcement Reserve Module Level II .................... 4
- LENT 318 [NP] Law Enforcement Reserve Module Level I .................... 11

**TOTAL UNITS FOR CERTIFICATE OF COMPLETION** .................... 20½

---

**Law Enforcement Academy**

By completing the Law Enforcement Academy, a student will earn a Modesto Junior College Certificate of Achievement which verifies the satisfactory completion of the educational standards for the POST Basic Certificate.

**REQUIRED PREPARATION**

• Meet educational and training requirements mandated by POST for entry-level law enforcement officers
• Satisfactory completion of written test
• Satisfactory completion of agility test
• Physician’s statement of student health submitted to the Criminal Justice Center.
• Submission of fingerprints (as required by California law) to the Department of Justice prior to admission.

**RESTRICTIONS**

• The Academy is not open to individuals who have been convicted of a felony, certain misdemeanor violations, or who are mental patients.

**Certificate: Law Enforcement Academy**

**REQUIRED COURSE** - Complete 15 units

- LENT 388 [NP] Basic Police Orientation .............................................. 15

**TOTAL UNITS FOR CERTIFICATE** ............................................ 15
Educational Programs in
Science, Mathematics, & Engineering

Division Information
Science 126
(209) 575-6172
Mike Torok
Division Dean

FACULTY
Michael Adams
Daniel Alcantra
Richard Anderson, PhD.
David Boley
Joseph Caddell, PhD.
Paul Cripe
James Curl, PhD.
Sarah Curl
Teri Curtis
Hardev Dhillon
Robert Droual, PhD.
Jacqueline Faris
Catherine Greene
Garry Hayes
Brett Herren
Noah Hughes
Elzbieta Jarrett, PhD.
James T. Johnson
William Luebke, PhD.
Derek Madden
Laura Maki, PhD.
Elizabeth McInnes
Ross McKenzie
Kenneth Meidl
James Michelena
Michele Monlux
Tom Nomof
Kamran Payvar
Mary Roslaniec, PhD.
Brian Sanders
Del Smith, PhD.
Pam Upton
Sandra Uyeshiro
David Ward, PhD.
Larry Weese
Jeremy Wilson
Xiang-Dong Ye, PhD.

SUPPORT STAFF
Sandra Vanwey, Admin.Secretary
Joan Van Kuren, Secretary III
Sarah Mesnhimer-Johnson, Lab Asst. III
Ernesto Magdaleno, Lab Ass. II
William Lotko, Lab. Ass. II

INSTRUCTIONAL SUPPORT STAFF
Clorinda Cavalho, Lab. Asst. II
Devin Jones, Lab. Asst. II
Linda Kong, Inst. Asst. II
William Lotko, Lab. Asst. II
Ernesto Magdaleno, Lab Asst. II
Sarah Mesnhimer-Johnson, Lab Asst. III
Brenda Smith, Lab Ass. II
Brian Stedjee, Lab. Asst. II

Degrees and/or Certificates offered in the following areas:
Architectural Drafting Tech., AS, C
Architecture/Architectural Engineering AS
Construction Management, AS
Engineering Drafting Technology, AS
Engineering Technology, AS
Landscape Architecture, AS

A.S. Degree:
Architecture/Architectural Engineering
• A minimum of 30 units must be completed from required mathematics, science, and Elective Courses for an Associate in Science Degree. MJC Associate Degree Requirements must also be completed. See advisor for selection of courses.

REQUIRED COURSES - Complete 23 Units
ARCH 100 [1] Introduction to Engineering & Architecture ..........................1
ARCH 121 [1] Beginning Graphics & Design 1 ........................................4
ARCH 131 [2] Architectural Drafting 1 .................................................4

ELECTIVE COURSES - Complete 7 units
ARCH 117 [NP] History of Architecture 1 .........................................3
ARCH 118 [NP] History of Architecture 2 .........................................3

ARCHITECTURE/ARCHITECTURAL ENGINEERING PROGRAM

The Architecture program prepares students to transfer to four-year college and university programs. The programs at most universities vary somewhat. The student should consult closely with the architecture staff to ensure that required transfer courses are completed for the specific college that the student selects.

The work of an architect is very complex. Architecture includes the total responsibility for the planning, design, and observation of construction of all types of buildings. Also included is the knowledge of engineering principles, construction methods, materials, new techniques, and procedures as related to the client’s needs. The architecture program is directed to provide the student with the architectural, engineering, mathematics, and general education courses. See advisor for required mathematics and science courses.
Programs in Science, Mathematics, & Engineering

ENGR 101 [4] Plane Surveying ................................................. 3
ENGT 210 [NP] Introduction to CAD ......................................... 1
ENGT 211 [NP] Intermediate Topics in CAD ............................. 1

TOTAL UNITS IN A.S. MAJOR ................................................. 30

Architectural Drafting Technology Program

The Architectural Drafting Technology program prepares students to enter the field of architectural drafting at the entry level as a drafter. The program is for students interested in the more pragmatic and applied aspects of architectural work, and is directed to the application of established scientific and architectural knowledge and methods.

Certificate:
Architectural Drafting Technology

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - Complete 19 units
ARCH 100 [1] Introduction to Engineering & Architecture ............ 1
ARCH 121 [1] Beginning Graphics & Design 1 ......................... 4
ARCH 131 [3] Architectural Drafting 1 .................................. 4

TOTAL UNITS FOR CERTIFICATE ........................................ 19

A.S. Degree:
Architectural Drafting Technology

- In addition to meeting the requirements below, student must complete the MJC Associate Degree Requirements. Consult with an advisor for selection of courses.

REQUIRED COURSES - Complete 19 units
ARCH 100 [1] Introduction to Engineering & Architecture ............ 1
ARCH 121 [1] Beginning Graphics & Design 1 .......................... 4
ARCH 131 [3] Architectural Drafting 1 .................................. 4

ELECTIVE COURSES - Complete 11 units
ENGR 101 [4] Plane Surveying .............................................. 3
ENGT 210 [NP] Introduction to CAD ........................................ 1
ENGT 211 [NP] Intermediate Topics in CAD ............................. 1

TOTAL UNITS IN A.S. MAJOR ................................................. 30

City & Regional Planning Program

The City and Regional Planning program prepares students to transfer to four-year college and university programs. The programs at most universities vary somewhat. The student should consult closely with the architecture staff to ensure that required transfer courses are completed for the specific college that the student selects.

The work of a city and regional planner is part of the newer awareness of society to protect our environment. Planning includes opportunities with both private industry and/or federal, state, or local governmental agencies. The city and regional planning program is directed to provide the student with undergraduate architectural, engineering, mathematics, and general education courses. See advisor for required mathematics and science courses.

A.S. Degree:
City & Regional Planning

- In addition to meeting the requirements that follow, student must complete the MJC Associate Degree Requirements. Consult with an advisor for selection of courses.

REQUIRED COURSES - Complete 18 units
ARCH 100 [1] Introduction to Engineering & Architecture ............ 1
ARCH 121 [1] Beginning Graphics & Design 1 .......................... 4
ARCH 131 [1] Architectural Drafting 1 .................................. 4

ELECTIVE COURSES - Complete 12 units
ARCH 117 [NP] History of Architecture 1 ................................... 3
ARCH 118 [NP] History of Architecture 2 ................................... 3
ENGR 101 [4] Plane Surveying .............................................. 3
ENGT 210 [NP] Introduction to CAD ........................................ 1
ENGT 211 [NP] Intermediate Topics in CAD ............................. 1
GEOL 161 [NP] Physical Geology ........................................... 4
ECON 101 [NP] Economic Principles: Macroeconomics ............. 3 OR
ECON 102 [NP] Economic Principles: Microeconomics ............. 3
MATH 122 [NP] Functions & Analytic Geometry ...................... 4

TOTAL UNITS IN A.S. MAJOR ................................................. 30

Construction Management Program

The Construction Management Program prepares and directs students to the field of construction in areas other than as the craftsman/technician. The program is for students interested in learning the more pragmatic and applications aspects of construction, engineering, and management, and is directed to the application of established scientific and engineering knowledge and methods.

A.S. Degree:
Construction Management

- In addition to meeting the requirements below, student must complete the MJC Associate Degree Requirements. Consult with an advisor for selection of courses.

ENGR 101 [4] Plane Surveying .............................................. 3
ARCH 117 [NP] History of Architecture 1 ................................... 3
ARCH 118 [NP] History of Architecture 2 ................................... 3
ENGT 210 [NP] Introduction to CAD ........................................ 1
ENGT 211 [NP] Intermediate Topics in CAD ............................. 1

TOTAL UNITS IN A.S. MAJOR ................................................. 30
REQUIRED COURSES - Complete 15 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 106</td>
<td>2</td>
<td>Materials of Construction</td>
</tr>
<tr>
<td>ENGR 108</td>
<td>2</td>
<td>Materials of Construction Lab</td>
</tr>
<tr>
<td>ENGR 121</td>
<td>4</td>
<td>Architectural Design 1</td>
</tr>
<tr>
<td>ENGR 131</td>
<td>4</td>
<td>Architectural Design 1</td>
</tr>
<tr>
<td>ENGR 100</td>
<td>3</td>
<td>Introduction to Engineering &amp; Architecture</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>3</td>
<td>Plane Surveying</td>
</tr>
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</table>

ELECTIVE COURSES - Complete 15 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 117</td>
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<td>History of Architecture 1</td>
</tr>
<tr>
<td>ENGR 118</td>
<td>3</td>
<td>History of Architecture 2</td>
</tr>
<tr>
<td>ENGR 122</td>
<td>4</td>
<td>Beginning Graphics &amp; Design 2</td>
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<tr>
<td>ENGR 152</td>
<td>5</td>
<td>Architectural Design 2</td>
</tr>
<tr>
<td>ENGR 153</td>
<td>5</td>
<td>Architectural Design 2</td>
</tr>
<tr>
<td>BUSAD 201</td>
<td>4</td>
<td>Financial Accounting</td>
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<tr>
<td>INTEC 340</td>
<td>3</td>
<td>UBC-Structural</td>
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<tr>
<td>INTEC 341</td>
<td>3</td>
<td>UBC-Non-Structural</td>
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</table>

TOTAL UNITS IN A.S. MAJOR ................................................. 30

Engineering Program

The Engineering program prepares students to transfer to four-year college and university programs. Most universities have a common undergraduate core of classes regardless of the student's eventual area of specialization (i.e., civil, mechanical, electrical/electronic, aeronautical, agricultural, ceramic, chemical, industrial, metallurgical, mining, etc.). The student should consult closely with the engineering staff to ensure that required transfer courses are completed for the specific college that the student selects.

The program is for students interested in preparing for a career in the engineering profession. The course work will present a foundation of engineering and scientific knowledge necessary for the transfer student.

A.S. Degree: Engineering

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below.

REQUIRED COURSES - Complete 12 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGR 121</td>
<td>3</td>
<td>Engineering Design and Graphics</td>
</tr>
<tr>
<td>MATH 171</td>
<td>4</td>
<td>Calculus: First Course</td>
</tr>
<tr>
<td>MATH 172</td>
<td>4</td>
<td>Calculus: Second Course</td>
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ELECTIVE COURSES - Complete 18 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 130</td>
<td>3</td>
<td>Properties of Materials</td>
</tr>
<tr>
<td>ENGR 135</td>
<td>3</td>
<td>Engineering Mechanics-Statics</td>
</tr>
<tr>
<td>ENGR 130</td>
<td>3</td>
<td>Properties of Materials</td>
</tr>
<tr>
<td>ENGR 140</td>
<td>3</td>
<td>Introduction to Circuit Analysis (w/o Lab)</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>4</td>
<td>General Physics</td>
</tr>
<tr>
<td>PHYS 102</td>
<td>4</td>
<td>General Physics</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>4</td>
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</tr>
<tr>
<td>PHYS 103</td>
<td>4</td>
<td>General Physics</td>
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</table>

Student may complete 4 or more units from the following

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<tr>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENGR 100</td>
<td>4</td>
<td>Introduction to Engineering &amp; Architecture</td>
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<tr>
<td>ENGR 101</td>
<td>3</td>
<td>Introduction to Surveying and Technology</td>
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<tr>
<td>MATH 173</td>
<td>4</td>
<td>Calculus: Third Course</td>
</tr>
<tr>
<td>MATH 174</td>
<td>4</td>
<td>Introduction to Linear Algebra and Ordinary</td>
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<tr>
<td>CHEM 101</td>
<td>5</td>
<td>General Chemistry 1</td>
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<td>CHEM 102</td>
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<td>General Chemistry 2</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>3</td>
<td>General Chemistry 2</td>
</tr>
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</table>

TOTAL UNITS IN A.S. MAJOR ................................................. 30

Engineering Technology Program

A.S. Degree: Engineering Technology

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below. Consult with an advisor for selection of courses.

REQUIRED COURSES - Complete 23 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 121</td>
<td>4</td>
<td>Introduction to Engineering &amp; Design</td>
</tr>
<tr>
<td>ENGR 220</td>
<td>2</td>
<td>Basic Engineering Drafting 1</td>
</tr>
<tr>
<td>ENGR 221</td>
<td>2</td>
<td>Basic Engineering Drafting 2</td>
</tr>
<tr>
<td>ENGR 127</td>
<td>4</td>
<td>Engineering Design and Graphics</td>
</tr>
<tr>
<td>ENGT 250</td>
<td>3</td>
<td>Materials in Engineering</td>
</tr>
<tr>
<td>ENGT 251</td>
<td>1</td>
<td>Properties of Materials</td>
</tr>
<tr>
<td>ENGT 255</td>
<td>3</td>
<td>Statics and Strength of Materials</td>
</tr>
<tr>
<td>MATH 90*</td>
<td>5</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MATH 121</td>
<td>4</td>
<td>Precalculus 1</td>
</tr>
</tbody>
</table>

Physical Science (with Lab) (4 Minimum units)

*OR MATH above MATH 115 (9 maximum units)

ELECTIVE COURSES - Complete 7 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 212</td>
<td>1</td>
<td>Introduction to Engineering &amp; Architecture</td>
</tr>
<tr>
<td>ENGT 212</td>
<td>1</td>
<td>Advanced Topics in CAD</td>
</tr>
<tr>
<td>ENGT 222</td>
<td>2</td>
<td>Engineering Drafting and Design 1</td>
</tr>
<tr>
<td>MACH 211D-F</td>
<td>4-6</td>
<td>Machine Tool Technology 1</td>
</tr>
<tr>
<td>WELD 200</td>
<td>3</td>
<td>Arc and Gas Welding</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR ................................................. 30

Engineering Drafting Technology Program

The Engineering Drafting Technology program prepares students to enter the field of engineering drafting at the entry level as a drafter, plans checker, engineering aide, estimator, etc.

The program is for students interested in the mechanical, electrical, and technical systems, and provides the student with course work in drafting, mathematics, and engineering.

A.S. Degree: Engineering Drafting Technology

- Including the Required Units, a minimum of 30 units must be completed from required mathematics, science, and Elective Courses for an Associate in Science Degree. MJC Associate Degree Requirements must also be completed. Consult with an advisor for selection of courses.
ENGR 121 [1] Introduction to Engineering Drafting & Design ..................... 4 OR
ENGR 220 [1] Basic Engineering Drafting ........................................... 2 AND
ENGR 221 [2] Basic Engineering Drafting 2 ........................................ 2
ENGT 222 [NP] Engineering Drafting and Design 1 ............................... 2
Physical Science [NP] (with lab) .......................................................... 4
MATH 90 [NP] (or higher) ................................................................. 2-5

ELECTIVE COURSES - Complete 11-14 units
ARCH 131 [2] Architectural Drafting 1 .................................................. 4
ENGR 100 [1] Introduction to Engineering and Architecture ...................... 1
ENGT 223 [3] Engineering Drafting and Design ...................................... 3
ENGT 212 [NP] Advanced Topics in CAD ............................................. 1
ENGR 220 [NP] Basic Engineering Drafting .......................................... 2
ENGR 221 [NP] Basic Engineering Drafting 2 ........................................ 1
ENGT 251 [4] Properties of Materials ................................................... 1
ENGT 375 [1] Construction Blueprint Reading ....................................... 2
CMPS 201 [NP] General Computer Literacy ......................................... 3
MATH 121 [2] Precalculus 1 ............................................................... 4 OR
MATH above MATH 90 (9 Maximum Units)
MACH 211D, E or F, 212D, E or F, WELD 200 (6 Maximum Units)

TOTAL UNITS IN A.S. MAJOR ............................................................ 30

LANDSCAPE ARCHITECTURE PROGRAM

The Landscape Architecture program prepares students to transfer to four-year college and professional programs. Landscape architecture encompasses a broad base of opportunity and service including environmental and resource conservation concerns. These concerns have created a need for more careful planning between man, his built environment, and his natural surroundings.

A.S. Degree: Landscape Architecture

*In addition to meeting the requirements below, student must complete the MJC Associate Degree Requirements. Consult with an advisor for selection of courses.

REQUIRED COURSES - Complete 19 units
ARCH 100 [1] Introduction to Engineering & Architecture ....................... 1
ARCH 121 [1] Beginning Graphics & Design 1 ....................................... 4
ARCH 131 [1] Architectural Drafting 1 .................................................. 4
NR 200 [NP] Soils ............................................................................. 4
EHS 201 [NP] Plant Identification and Usage 1 ....................................... 3
EHS* 202 [NP] Plant Identification and Usage 2 ..................................... 3

ELECTIVE COURSES - Complete 11 units
ARCH 117 [NP] History of Architecture 1 .............................................. 3
ARCH 118 [NP] History of Architecture 2 .............................................. 3
ENGT 210 [NP] Introduction to CAD ..................................................... 1

ENGT 211 [NP] Intermediate Topics in CAD ......................................... 1
EHS 210 [NP] Introduction to Environmental Horticulture ..................... 3

TOTAL UNITS IN A.S. MAJOR ............................................................ 30

PHYSICAL SCIENCE PROGRAM

A.S. Degree: Physical Science

This curriculum plan is intended for those interested in transferring to a four-year college or university. However, the courses in this program do not necessarily fulfill the prerequisites for the major at any particular institution. Students are encouraged to consult with the physical science and counseling staff in order to choose courses satisfying the prerequisites of the major and addressing the student’s career goals.

*To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

REQUIRED COURSES - Complete 26 units

Complete all of the following courses
CHEM 101 [1] General Chemistry ......................................................... 5
MATH 171 [1] Calculus: First Course ..................................................... 4
MATH 172 [2] Calculus: Second Course ................................................ 4

Complete one of the following Physics sequences
Sequence A
PHYS 101 [NP] General Physics .............................................................. 4 AND
PHYS 102 [NP] General Physics .............................................................. 4

Sequence B
PHYS 101 [NP] General Physics .............................................................. 4 AND
PHYS 103 [NP] General Physics .............................................................. 4

Sequence C
PHYS 142 [NP] Mechanics, Heat, and Waves ........................................ 4 AND
PHYS 143 [NP] Electricity, Magnetism, Optics, Atomic and Nuclear Structure ........................................ 4

ELECTIVE COURSES - Complete 4 units
ASTRO 141 Introduction to Astrophysics .............................................. 3 AND
ASTRO 151 Introduction to Astronomy Laboratory ................................ 1
ASTRO 151 Introduction to Astronomy Laboratory ................................ 1 AND
ASTRO 160 Introduction to Modern Astronomy .................................... 3
CHEM 112 Organic Chemistry .............................................................. 5 OR
CHEM 113 Organic Chemistry .............................................................. 5
GEOL 161 Physical Geology ................................................................. 4
EASC 161 Earth Science ....................................................................... 4
MATH 173 Calculus: Third Course ........................................................ 4

(Either of the following Physics courses that has not been completed above)
PHYS 102 General Physics ................................................................. 4 OR
PHYS 103 General Physics ................................................................. 4

TOTAL UNITS IN A.S. MAJOR ............................................................ 30

EDUCATIONAL PROGRAMS AT MJC
Autobody Collision Repair Program

The Auto Body program is designed to help the beginning student progress through basic procedures in body repairs and painting to entry-level job skill development. Complete and current practices used in industry are emphasized. The orientation is toward theory and hands-on activities required to perform practical repair operations. Related trade and technical information, care and use of equipment and shop safety are also a focus in the Auto Body program.

Certificate: Autobody/Collision Repair

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COMPETENCIES**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ</td>
<td>184</td>
<td>[1,2,3]</td>
</tr>
<tr>
<td>MATH</td>
<td>20</td>
<td>[1,2,3]</td>
</tr>
</tbody>
</table>

- Critical Reading ................................................. 3 OR Reading Competency through Placement Exam
- Pre-Algebra .......................................................... 3 OR Eligibility for MATH 70 through Placement Exam

Degrees and/or Certificates offered in the following areas:

- Autobody/Collision Repair, AA, C
- Automotive Refinishing, AS, C
- Automotive Technician, AS, C
- Building and Safety Code Admin., AS, C
- CNC Operator, C
- CNC Programmer, C
- Computer Electronics, AS, AA, C
- Fabrication Technician, C
- Flexographic Printing, C
- Gas Tungsten Arc Welding, C
- Gas Metal Arc Welding
- Industrial Technology Systems, AS, C
- Electrician, AS, C
- Maintenance, AS, C
- Technician C
- Prepress, C
- Presses and Bindery, C
- Printing Maintenance, C

REQUIRED COURSES - Complete 23 units

- AUBDY 115 [1] Introduction to Technical Industries ......................... 1
- AUBDY 301 [1] Automotive Collision Repair 1 ............................. 5
- AUBDY 399 [NP] Independent Study/Special Problems .................... 4

TOTAL UNITS FOR CERTIFICATE ........................................ 23

A.A. Degree: Autobody/Collision Repair

- To earn an Associate in Arts Degree, student must complete the 20 Required Units, and meet the MJC Associate Degree Requirements.

REQUIRED COURSES - Complete 20 units

- AUBDY 115 [1] Introduction to Technical Industries ......................... 1
- AUBDY 301 [1] Automotive Collision Repair 1 ............................. 5
- AUBDY 399 [NP] Independent Study/Special Problems .................... 1

TOTAL UNITS IN A.A. MAJOR ............................................ 20

EDUCATIONAL PROGRAMS AT MJC 139
**Autobody Refinishing Program**

**Certificate: Autobody/Refinishing**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 8 units

- AUBDY 115 [1] Introduction to Technical Industries .................. 1
- AUBDY 399 [3] Special Problems ................................... 2

**TOTAL UNITS FOR CERTIFICATE ............................................ 8**

**A.S. Degree: Autobody Refinishing**

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework.

**REQUIRED COURSES** - Complete 31 units

- AUBDY 115 [1] Introduction to Technical Industries ............. 1
- AUBDY 301 [1] Automotive Collision Repair 1 .................... 5
- AUBDY 321 [NP] Automotive Spray Refinishing 1 ............... 2
- AUBDY 399 [NP] Independent Study/Special Problems ........... 1
- AUTEC 321 [NP] Braking Systems .................................. 3
- AUTEC 322 [NP] Steering, Suspension, and Alignment ........... 3

**TOTAL UNITS IN A.S. MAJOR ............................................. 31**

---

**Automotive Technology Program**

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry.

The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks.

The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

**Certificate: Automotive Technician**

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COMPETENCIES**

- READ 184 [1,2,3] Critical Reading .................................. 3 OR
  - Reading Competency through Placement Exam
- MATH 20 [1,2,3] Pre-Algebra ........................................... 3 OR
  - Eligibility for MATH 70 by MJC assessment process

**REQUIRED COURSES** - Complete 10 units

- AUTEC 115 [1] Introduction to Technical Industries ............. 1
- AUTEC 311 [1] Basic Automotive Systems .......................... 3
- AUTEC 368 [2,3] Automotive Electricity I .......................... 3 OR
- AUTEC 399 [2] Independent Study .................................... 2

**ELECTIVE COURSES** - Complete 28 units

- AUTEC 315 [2,3,4] Engine Rebuilding ......................... 4
- AUTEC 317 [NP] Air Conditioning ................................. 3
- AUTEC 321 [2,3,4] Braking Systems ............................... 3
- AUTEC 322 [2,3,4] Steering, Suspension, & Alignment ........ 3
- AUTEC 323 [2,3,4] Automatic Transmissions & Transaxles .. 4
- AUTEC 369 [2,3] Automotive Electricity II .................... 3
- AUTEC 399 [2] Independent Study ................................... 2

**TOTAL UNITS FOR CERTIFICATE ........................................ 38**

**A.S. Degree: Automotive Technician**

- To earn an Associate in Science Degree, student must complete the 30 Required Units and meet the MJC Associate Degree Requirements.

**REQUIRED COMPETENCIES**

- READ 184 [1,2,3] Critical Reading .................................. 3 OR
  - Reading Competency through Placement Exam
- MATH 20 [1,2,3] Pre-Algebra ........................................... 3 OR
  - Eligibility for MATH 70 by MJC assessment process

**REQUIRED COURSES** - Complete 10 units

- AUTEC 115 [1] Introduction to Technical Industries ............. 1
Automotive Maintenance Program

Certificate: Maintenance Mechanic

- To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUiRED COMPETENCIES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 184 [2,3] Critical Reading</td>
<td>3 OR Reading Competency through Placement Exam</td>
</tr>
<tr>
<td>MATH 20 [1,2,3] Pre-Algebra</td>
<td>3 OR Eligibility for MATH 70 by MJC assessment process</td>
</tr>
</tbody>
</table>

REQUiRED COURSEs - Complete 7 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTEC 115 [1] Introduction to Technical Industries</td>
<td>1</td>
</tr>
<tr>
<td>AUTEC 311 [1] Basic Automotive Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 368 [2,3] Automotive Electricity I</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTiVE COURSES - Complete 23 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTEC 315 [3,4] Engine Rebuilding</td>
<td>4</td>
</tr>
<tr>
<td>AUTEC 317 [3,4] Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 321 [2,3,4] Braking Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 322 [2,3,4] Steering, Suspension, Alignment</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 323 [2,3,4] Automatic Transmissions &amp; Transaxles</td>
<td>4</td>
</tr>
<tr>
<td>AUTEC 324 [2,3,4] Manual Transmissions &amp; Drive Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 369 [2,3] Automotive Electricity II</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ................................................. 30

Building & Trades industry

Building & Safety Code Administration Program

Courses are intended for students that are interested in career opportunities in the building Inspection field as well as those currently working in the industry who need to update or upgrade their knowledge and skills.

Certificate:

Building and Safety Code Administration

- To earn a Certificate of Achievement, the student must fulfill the required competencies, complete the 24 required units, and complete at least 6 units from the elective courses. Each course must be completed with a grade C or better.

Required Competencies for Certificate:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 50 Basic Voc. English for Industrial Technology</td>
<td>2 AND ENGL 50 Basic Composition and Reading</td>
</tr>
<tr>
<td>MATH 20 Pre-Algebra</td>
<td>3 OR Qualified placement in MATH 70 through the Math Placement Test</td>
</tr>
</tbody>
</table>

Required Courses – Complete 24 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 115 [1,2] Introduction to Technical Industries</td>
<td>1</td>
</tr>
<tr>
<td>ENGT 375 [1] Construction Blueprint Reading</td>
<td>2</td>
</tr>
<tr>
<td>INTEC 248 [1] Electrical Codes &amp; Ordinances</td>
<td>3</td>
</tr>
<tr>
<td>INTEC 249 [2] Analysis of Electrical Codes</td>
<td>3</td>
</tr>
<tr>
<td>INTEC 346 [3] Enforce Bldg Repair &amp; Abatement Reg</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses – Complete at least 6 units for A.S. Degree or Certificate

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 202 [2,4] Fundamentals of Industrial Technology</td>
<td>2</td>
</tr>
<tr>
<td>INTEC 205 [2,4] Principles of Quality Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>INTEC 208 [NP] World of Electricity &amp; Electronics</td>
<td>3</td>
</tr>
<tr>
<td>INTEC 306 [2,4] Intro to Occupational Safety &amp; Health</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 131 [NP] Architectural Drafting 1</td>
<td>4 OR ARCH 331 [NP] Basic Architectural Drafting 1</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ................................................. 30

A.S. Degree:

Building and Safety Code Administration

- To earn an A.S. Degree, the student must complete the required courses, complete at least 6 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

TOTAL UNITS REQUIRED FOR A.S. MAJOR ........................................... 30
### Construction Program (Carpentry)

#### Certificate: Construction - Carpentry

**REQUIRED COURSES** – Complete 13 units

- INTEC 225 [1] Residential and Farmstead Electrical Wiring and Principles............3
- INTEC 200 [1] Introduction to Mechanical Technology.........................................3

**ELECTIVE COURSES** – Complete 2 units

- INTEC 301 [NP] Employability Skills 1.................................................................2
- AGM 230 [NP] Field Surveying................................................................................2
- ENGT 375 [NP] Construction Blueprint Reading.....................................................2

**TOTAL UNITS FOR CERTIFICATE** ................................................................. 15

### Construction Program (General)

#### Certificate: Construction - General

**REQUIRED COURSES** – Complete 14 units

- INTEC 225 [1] Residential and Farmstead Electrical Wiring and Principles............3
- INTEC 248 [2] Electrical Codes and Ordinances.....................................................3
- INTEC 367 [NP] Plumbing Principles and Methods................................................3

**ELECTIVE COURSES** – Complete 2 units

- ENGT 375 [2] Construction Blueprint Reading.....................................................2

**TOTAL UNITS FOR CERTIFICATE** ................................................................. 16

### Home Building Technologies Program

Courses are intended for students that are interested in career opportunities in the Residential Construction field as well as those currently working in the field who need to update or upgrade their knowledge and skills.

#### Certificate: Home Building Technologies

- To earn a Certificate of Achievement, the student must complete the 24 required units. Each course must be completed with a grade C or better.

**Required Courses: Select 24 Units**

- INTEC 115 [1] Introduction to Technical Industries..............................................1
- INTEC 248 [3] Electrical Codes & Ordinances......................................................3
- INTEC 249 [4] Analysis of Electrical Codes............................................................3
- INTEC 306 [2] Intro to Occupational Safety & Health.........................................3
- INTEC 346 [1] Enforce Bldg Repair & Abatement Reg.........................................3

**TOTAL UNITS FOR CERTIFICATE** ................................................................. 24

#### A.S. Degree: Home Building Technologies

- To earn an A.S. Degree, the student must complete the required courses, complete at least 6 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

**Elective Courses: Select 6 or more Units**

- INTEC 208 [NP] World of Electricity & Electronics.............................................3
- ENGT 375 [1,3] Construction Blueprint Reading..................................................2
- INTEC 379 [1,3] Uniform Plumbing Code.............................................................3
- ARCH 106 [NP] Materials of Construction.........................................................2 AND
- ARCH 107 [NP] Materials of Construction - Laboratory......................................1

**TOTAL UNITS REQUIRED FOR A.S. MAJOR** ........................................... 30
Certificate:

**Electronics Technology-Computer Electronics**

- To earn a Certificate of Achievement, the student must complete the coursework below. All required courses must be completed with a C or better.

**REQUIRED COURSES** - Complete 16 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTE 280</td>
<td>3</td>
<td>The World of Electricity and Electronics</td>
</tr>
<tr>
<td>CMPET 212</td>
<td>1</td>
<td>Digital Principles and Circuits</td>
</tr>
<tr>
<td>CMPET 214</td>
<td>[2,3,4]</td>
<td>Microprocessor Programming and Interfacing</td>
</tr>
<tr>
<td>CMPET 206</td>
<td>[2,3,4]</td>
<td>Personal Computer Assembling, Upgrading, and Repair</td>
</tr>
<tr>
<td>CMPSC 204</td>
<td>2</td>
<td>Introduction to Programming</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** - Complete 19 units, at least 6 in each area

**Electronics Area**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 210</td>
<td>[3,4]</td>
<td>Intermediate Personal Computer Servicing</td>
</tr>
<tr>
<td>CMPET 232</td>
<td>[NP]</td>
<td>Introduction to Programmable Logic Controllers</td>
</tr>
<tr>
<td>CMPET 234</td>
<td>[2,3,4]</td>
<td>Advanced Topics in Programmable Logic Controllers</td>
</tr>
<tr>
<td>CMPET 269</td>
<td>[2,3,4]</td>
<td>Network+ Certification Training Lab</td>
</tr>
<tr>
<td>ELTE 221</td>
<td>[2,3,4]</td>
<td>Instrumentation Devices and Systems</td>
</tr>
</tbody>
</table>

**Computer Area**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 205</td>
<td>3</td>
<td>Problem Solving and Programming 1</td>
</tr>
<tr>
<td>CMPSC 213</td>
<td>[3,4]</td>
<td>Programming with Visual Basic</td>
</tr>
<tr>
<td>CMPSC 263</td>
<td>[3,4]</td>
<td>Networking Essentials</td>
</tr>
<tr>
<td>CMPSC 264</td>
<td>[3,4]</td>
<td>Windows Server OS</td>
</tr>
<tr>
<td>CMPSC 276</td>
<td>[4]</td>
<td>Introduction to Data Warehousing</td>
</tr>
<tr>
<td>CMPSC 278</td>
<td>[3,4]</td>
<td>Spreadsheet Software</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** ............................................ 35

**A.S. Degree: Computer Electronics**

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below. All required and sufficient elective courses in the program must be completed with a C or better.

**REQUIRED COURSES** - Complete 16 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 206</td>
<td>[2,3,4]</td>
<td>Personal Computer Assembling, Upgrading, and Repair</td>
</tr>
<tr>
<td>CMPET 212</td>
<td>[1]</td>
<td>Digital Principles and Circuits</td>
</tr>
<tr>
<td>CMPET 214</td>
<td>[2,3,4]</td>
<td>Microprocessor Programming and Interfacing</td>
</tr>
<tr>
<td>CMPSC 204</td>
<td>[2]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>ELTE 208</td>
<td>[1]</td>
<td>The World of Electricity and Electronics</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES** Complete 14 units, at least 6 in each area

**Electronics Category**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 210</td>
<td>[NP]</td>
<td>Intermediate Personal Computer Servicing</td>
</tr>
<tr>
<td>CMPET 232</td>
<td>[NP]</td>
<td>Introduction to Programmable Logic Controllers</td>
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<tr>
<td>CMPET 234</td>
<td>[2,3,4]</td>
<td>Advanced Topics in Programmable Logic Controllers</td>
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<tr>
<td>CMPET 269</td>
<td>[2,3,4]</td>
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</tr>
<tr>
<td>ELTE 221</td>
<td>[2,3,4]</td>
<td>Instrumentation Devices and Systems</td>
</tr>
</tbody>
</table>

**Computer Science Area**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 205</td>
<td>3</td>
<td>Problem Solving and Programming 1</td>
</tr>
<tr>
<td>CMPSC 213</td>
<td>[3,4]</td>
<td>Programming with Visual Basic</td>
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<tr>
<td>CMPSC 263</td>
<td>[3,4]</td>
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<td>[4]</td>
<td>Introduction to Data Warehousing</td>
</tr>
<tr>
<td>CMPSC 278</td>
<td>[3,4]</td>
<td>Spreadsheet Software</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR MAJOR** .................................................. 30

**Continued »**
Communication Graphics Program

In the Communication Graphics program, students learn each phase of printing and receive an overview of industry practices. Most courses offer the student a choice of scheduling laboratory hours among several alternatives. Open access and computer-assisted teaching techniques are incorporated with regular instruction. Communication Graphics courses are recommended for students majoring in Advertising, Art, Business, Journalism, and Vocational Printing.

Certificate: Communication Graphics Applications

- To earn a Certificate of Achievement, the student must meet and complete the competencies for the Communication Graphics Program, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGR 201</td>
<td>Graphic Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CGR 211</td>
<td>Typography 1 (PageMaker, QuarkXPress, InDesign)</td>
<td>3</td>
</tr>
<tr>
<td>CGR 212</td>
<td>Electronic Prepress</td>
<td>3</td>
</tr>
<tr>
<td>CGR 214</td>
<td>Printing Presses and Bindery 1</td>
<td>3</td>
</tr>
<tr>
<td>CGR 221</td>
<td>Image Capture and Manipulation (Photoshop)</td>
<td>3</td>
</tr>
<tr>
<td>CGR 224</td>
<td>Electronic Publishing Systems (Illustrator)</td>
<td>3</td>
</tr>
<tr>
<td>CGR 331</td>
<td>Typography 2 (PageMaker, QuarkXPress, InDesign)</td>
<td>3</td>
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**ELECTIVE COURSES** - Complete 15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CGR 222</td>
<td>Image Assembly and Platemaking</td>
<td>2</td>
</tr>
<tr>
<td>CGR 223</td>
<td>Printing Presses and Bindery 2</td>
<td>3</td>
</tr>
<tr>
<td>CGR 225</td>
<td>Production Screen Printing</td>
<td>2</td>
</tr>
<tr>
<td>CGR 230</td>
<td>Graphic Design 1</td>
<td>3</td>
</tr>
<tr>
<td>CGR 232</td>
<td>Graphic Design Portfolio Development</td>
<td>1</td>
</tr>
<tr>
<td>CGR 332</td>
<td>Production Presses and Bindery</td>
<td>3</td>
</tr>
<tr>
<td>CGR 333</td>
<td>Photo Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CGR* 350</td>
<td>Communication Graphics Internship</td>
<td>2</td>
</tr>
<tr>
<td>CGR 352</td>
<td>Production Management</td>
<td>1</td>
</tr>
<tr>
<td>CGR 399</td>
<td>Independent Study (with advisors approval)</td>
<td>1,2,3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .................................................. 36

A.A. Degree: Communication Graphics Applications

To earn an Associate in Arts Degree, student must complete all Required Courses as listed under the Certificate (21 units), and meet the MJC Associate Degree Requirements.

**TOTAL UNITS IN A.A. MAJOR** ..................................................... 21

A.S. Degree: Communication Graphics Applications

To earn an Associate in Science Degree, student must complete all Required Courses as listed under the Certificate (21 units), plus 10 units from the Elective Courses and meet the MJC Associate Degree Requirements.

**TOTAL UNITS IN A.S. MAJOR** ..................................................... 31

**COMPETENCIES (FOR CERTIFICATES ONLY)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 184</td>
<td>Critical Reading</td>
<td>3 OR</td>
</tr>
<tr>
<td>MATH 20</td>
<td>Reading Competency through Placement Exam</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Pre-Algebra</td>
<td>3 OR</td>
</tr>
<tr>
<td></td>
<td>Eligibility for MATH 70 by MJC assessment process</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate: Flexographic Printing Program

- To earn a Certificate of Achievement, the student must meet and complete the competencies for the Communication Graphics Program, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 17 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGR 211</td>
<td>Typograhpy 1 (PageMaker and QuarkXPress)</td>
<td>3</td>
</tr>
<tr>
<td>CGR 212</td>
<td>Electronic Prepress</td>
<td>3</td>
</tr>
<tr>
<td>CGR 214</td>
<td>Printing Presses and Bindery 1</td>
<td>3</td>
</tr>
<tr>
<td>CGR 222</td>
<td>Image Assembly and Platemaking</td>
<td>2</td>
</tr>
<tr>
<td>CGR 223</td>
<td>Printing Presses and Bindery 2</td>
<td>3</td>
</tr>
<tr>
<td>CGR 332</td>
<td>Production Presses and Bindery</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .................................................. 17

Graphic Design Program

The Graphic Design Program is structured to develop the capability of the student to creatively solve design problems related to the printed product. The Program incorporates both artistic and technical course work to address the total requirements of the profession.

The Graphic Design field distinguishes itself from the general arts field by emphasizing the application of visual knowledge. Possible job opportunities include: graphic artist, graphic designer, commercial artist, illustrator, and pre-press layout person.

Certificate: Graphic Design

- To earn a Certificate of Achievement, the student must meet and complete the following competencies, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COMPETENCIES (FOR CERTIFICATE )**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 184</td>
<td>Critical Reading</td>
<td>3 OR</td>
</tr>
<tr>
<td>MATH 20</td>
<td>Reading Competency through Placement Exam</td>
<td>3</td>
</tr>
<tr>
<td>SPCOM 102</td>
<td>Pre-Algebra</td>
<td>3 OR</td>
</tr>
<tr>
<td></td>
<td>Eligibility for MATH 70 by MJC assessment process</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**REQUIRED COURSES** - Complete 37 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Basic Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Color and Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 125</td>
<td>Color and Design 2</td>
<td>3</td>
</tr>
<tr>
<td>CGR 201</td>
<td>Graphic Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CGR 211</td>
<td>Typograhpy 1 (PageMaker, QuarkXPress, InDesign)</td>
<td>3</td>
</tr>
<tr>
<td>CGR 212</td>
<td>Electronic Prepress</td>
<td>3</td>
</tr>
<tr>
<td>CGR 221</td>
<td>Image Capture and Manipulation (Photoshop)</td>
<td>3</td>
</tr>
</tbody>
</table>

Continued →
**Presses and Bindery Program**

**Certificate: Presses and Bindery**

- To earn a Certificate of Achievement, the student must meet/complete the competencies for the Communication Graphics Program, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 14 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGR 201 [1]</td>
<td>3</td>
<td>Graphic Arts Fundamentals</td>
</tr>
<tr>
<td>CGR 214 [1]</td>
<td>3</td>
<td>Printing Presses and Bindery</td>
</tr>
<tr>
<td>CGR 222 [2]</td>
<td>3</td>
<td>Image Assembly and Platemaking</td>
</tr>
<tr>
<td>CGR 223 [1,2]</td>
<td>3</td>
<td>Printing Presses and Bindery 2</td>
</tr>
<tr>
<td>CGR 332 [2]</td>
<td>3</td>
<td>Production Presses and Bindery</td>
</tr>
<tr>
<td>(Focus on Offset Presses)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .......................................................... 14

**Printing Maintenance Program**

**Certificate: Printing Maintenance**

- To earn a Certificate of Achievement, the student must meet/complete the competencies for the Communication Graphics Program, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGR 214 [1]</td>
<td>3</td>
<td>Printing Presses and Bindery</td>
</tr>
<tr>
<td>CGR 223 [1,2]</td>
<td>3</td>
<td>Printing Presses and Bindery 2</td>
</tr>
<tr>
<td>CGR 332 [2]</td>
<td>3</td>
<td>Production Presses and Bindery</td>
</tr>
<tr>
<td>MACH 301 [NP]</td>
<td>2</td>
<td>Machine Tool Technology (1 or 2)</td>
</tr>
<tr>
<td>ELTEC 265 [NP]</td>
<td>1</td>
<td>Troubleshooting Techniques</td>
</tr>
<tr>
<td>ELTEC 208 [NP]</td>
<td>1</td>
<td>The World of Electricity</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .......................................................... 15

*Students completing 2 or more certificates will need to replace the second or third CGR 332 with a 399B Independent Study*

---

**Prepress Program**

**Certificate: Prepress**

- To earn a Certificate of Achievement, the student must meet/complete the competencies for the Communication Graphics Program, and complete the coursework as indicated. Each course must be completed with a grade of C or better.

**REQUIRED COURSES** - Complete 17 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGR 211 [1]</td>
<td>3</td>
<td>Typography 1 (PageMaker and QuarkXpress)</td>
</tr>
<tr>
<td>CGR 212 [1]</td>
<td>3</td>
<td>Electronic Prepress</td>
</tr>
<tr>
<td>CGR 221 [1,2]</td>
<td>3</td>
<td>Image Capture and Manipulation</td>
</tr>
<tr>
<td>CGR 222 [2]</td>
<td>2</td>
<td>Image Assembly and Platemaking</td>
</tr>
<tr>
<td>CGR 224 [1,2]</td>
<td>3</td>
<td>Electronic Publishing Systems (Illustrator)</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE** .......................................................... 17

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**A.A. Degree: Graphic Design**

- To earn an Associate in Arts Degree, students must complete the 21 units of Required Courses, and complete the MJC Associate Degree Requirements.

**REQUIRED COURSES** - Complete 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120 [1,2]</td>
<td>3</td>
<td>Basic Drawing 1</td>
</tr>
<tr>
<td>ART 124 [1,2]</td>
<td>3</td>
<td>Color and Design 1</td>
</tr>
<tr>
<td>CGR 201 [1]</td>
<td>3</td>
<td>Graphic Arts Fundamentals</td>
</tr>
<tr>
<td>CGR 211 [1]</td>
<td>3</td>
<td>Typography 1 (PageMaker, QuarkXpress, InDesign)</td>
</tr>
<tr>
<td>CGR 230 [3]</td>
<td>3</td>
<td>Graphic Design</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** .......................................................... 21

**A.S. Degree: Graphic Design**

- To earn an Associate in Science Degree, students must complete all Required Courses for Associate Degree plus the additional units listed below, and meet the MJC Associate Degree Requirements.

**ADDITIONAL REQUIRED COURSES FOR A.S. DEGREE** - Complete 11 units:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 125 [3]</td>
<td>3</td>
<td>Color and Design 2</td>
</tr>
<tr>
<td>CGR 221 [2,3]</td>
<td>3</td>
<td>Image Capture and Manipulation (Photoshop)</td>
</tr>
<tr>
<td>CGR 331 [3,4]</td>
<td>3</td>
<td>Typography 2 (PageMaker, QuarkXpress, InDesign)</td>
</tr>
<tr>
<td>CGR 399A [4]</td>
<td>3</td>
<td>Independent Study (with advisors approval)</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.S. MAJOR** .......................................................... 32

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**TOTAL UNITS FOR CERTIFICATE** .......................................................... 37

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Continued...
Programs in Technology Education

General Plant Maintenance Program

Courses are intended for students who are interested in career opportunities in Plant or Facilities Mechanical Maintenance as well as those currently working in the industry who need to update or upgrade their knowledge and skills.

Certificate: General Plant Maintenance

- To earn a Certificate of Achievement, the student must complete the required courses and complete at least 3 units from the elective courses. Each course must be completed with a grade C or better.

REQUIRED COURSES – Complete 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 115</td>
<td>[1,2]</td>
<td>Introduction to Technical Industries</td>
</tr>
<tr>
<td>INTEC 261</td>
<td>[1]</td>
<td>Introduction to Plant Maintenance</td>
</tr>
<tr>
<td>INTEC 367</td>
<td>[2]</td>
<td>Plumbing Principles and Methods</td>
</tr>
<tr>
<td>INTEC 306</td>
<td>[4]</td>
<td>Intro to Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>ENTC 375</td>
<td>[3]</td>
<td>Construction Blueprint Reading</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – Select at least 3 units for Certificate. Select at least 3 units for A.S. Degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 208</td>
<td>[NP]</td>
<td>World of Electricity &amp; Electronics</td>
</tr>
<tr>
<td>INTEC 223</td>
<td>[NP]</td>
<td>Industrial Elec. Comp. &amp; Control Dev.</td>
</tr>
<tr>
<td>INTEC 225</td>
<td>[1,3]</td>
<td>Residential and Farmstead Wiring</td>
</tr>
<tr>
<td>INTEC 226</td>
<td>[NP]</td>
<td>Motors and Motor Controls</td>
</tr>
<tr>
<td>INTEC 262</td>
<td>[1,3]</td>
<td>Hydraulics/Pneumatics</td>
</tr>
<tr>
<td>INTEC 362</td>
<td>[1,3]</td>
<td>Industrial Refrigeration Systems</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ................................................. 24

A.A. Degree: General Plant Maintenance

- To earn an A.A. Degree the student must complete the 21 required units and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

TOTAL UNITS REQUIRED FOR A.A. MAJOR .............................. 21

A.S. Degree: General Plant Maintenance

- To earn an A.S. Degree, the student must complete the 21 required units, complete at least 9 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with grade C or better.

TOTAL UNITS REQUIRED FOR A.S. MAJOR ............................. 30

Industrial Electronics Program

The Electronics Technology Program prepares students to enter industry as Electronics Technicians or to transfer to a four-year university program. An Industrial Electronics study option and a Computer Electronics study option are available. Students receive theoretical and laboratory instruction in electrical/ electronic principles, analog and digital devices, electrical/electronic systems, computer hardware, industrial equipment and control systems. Consult with an Electronics Advisor for selection of courses and options.

Classes in Electronics Technology are offered in theoretical and manipulative skills leading to the associate degree. Students may also select a program for transfer to a state university.

Certificate: Industrial Electronics

- To earn a Certificate of Achievement, the student must complete all required courses with a C or better, and complete the electives as indicated.

REQUIRED COMPETENCIES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 184</td>
<td></td>
<td>Critical Reading</td>
</tr>
<tr>
<td>MATH 70</td>
<td></td>
<td>Reading Competency through Assessment</td>
</tr>
<tr>
<td>MATH 80</td>
<td></td>
<td>Qualification for MATH 80 through Assessment</td>
</tr>
</tbody>
</table>

REQUIRED COURSES - Complete 28 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTEC 205</td>
<td>[1]</td>
<td>Electronics Fabrication and Assembly Techniques</td>
</tr>
<tr>
<td>ELTEC 208</td>
<td>[1]</td>
<td>The World of Electricity and Electronics</td>
</tr>
<tr>
<td>ELTEC 221</td>
<td>[3]</td>
<td>Instrumentation Devices and Systems</td>
</tr>
<tr>
<td>ELTEC 223</td>
<td>[2]</td>
<td>Industrial Electrical Components and Control Devices</td>
</tr>
<tr>
<td>ELTEC 232</td>
<td>[2]</td>
<td>Introduction to Programmable Logic Controllers</td>
</tr>
<tr>
<td>CMET 265</td>
<td>[1]</td>
<td>Troubleshooting</td>
</tr>
<tr>
<td>CMET 206</td>
<td>[2,3,4]</td>
<td>Personal Computer Assembling, Upgrading, and Repairing</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - Complete 7 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTEC 214</td>
<td>[2,3,4]</td>
<td>Microprocessor Programming and Interfacing</td>
</tr>
<tr>
<td>ELTEC 228</td>
<td>[NP]</td>
<td>Integrated Automatic Process Control Systems</td>
</tr>
<tr>
<td>INTEC 202</td>
<td>[NP]</td>
<td>Fundamentals of Industrial Technology</td>
</tr>
<tr>
<td>INTEC 203</td>
<td>[NP]</td>
<td>Industrial Mechanical Components &amp; Equip.</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE ................................................. 35

A.S. Degree: Industrial Electronics

- To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to the coursework below. All required and sufficient elective courses in the program must be completed with a C or better.

REQUIRED COURSES - Complete 25 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTEC 205</td>
<td>[1]</td>
<td>Electronics Fabrication and Assembly Techniques</td>
</tr>
<tr>
<td>ELTEC 208</td>
<td>[1]</td>
<td>The World of Electricity and Electronics</td>
</tr>
<tr>
<td>ELTEC 221</td>
<td>[3]</td>
<td>Instrumentation Devices and Systems</td>
</tr>
<tr>
<td>ELTEC 223</td>
<td>[2]</td>
<td>Industrial Electrical Components and Control Devices</td>
</tr>
</tbody>
</table>

Continued...
Programs in Technology Education

Industrial Technology Program

Courses are intended for students that are interested in career opportunities as Residential, Plant, or Facilities Electricians as well as those currently working in the industry who need to update or upgrade their knowledge and skills.

Industrial Technology – Electrician

Certificate: Industrial Technology - Electrician

To earn a Certificate of Achievement, student must complete the 23 required units and complete at least 7 elective units. Each course must be completed with grade C or better.

REQUIRED COURSES: Complete 23 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 208</td>
<td>[1]</td>
<td>World of Electricity &amp; Electronics</td>
</tr>
<tr>
<td>INTEC 221</td>
<td>[4]</td>
<td>Instrumentation Devices &amp; Systems</td>
</tr>
<tr>
<td>INTEC 223</td>
<td>[2]</td>
<td>Industrial Elec. Comp. &amp; Control Dev.</td>
</tr>
<tr>
<td>INTEC 225</td>
<td>[1]</td>
<td>Residential and Farmstead Wiring</td>
</tr>
<tr>
<td>INTEC 248</td>
<td>[2]</td>
<td>Electrical Codes &amp; Ordinances</td>
</tr>
<tr>
<td>INTEC 261</td>
<td>[3]</td>
<td>Introduction to Plant Maintenance</td>
</tr>
<tr>
<td>ELTEC 232</td>
<td>[4]</td>
<td>Intro to Program. Logic Controllers</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES: Complete at least 7 units

Choose any other INTEC courses............................................7

TOTAL UNITS FOR CERTIFICATE .............................................. 30

A.S. Degree: Industrial Technology - Electrician

To earn an A.S. Degree, the student must complete the 26 required units, complete at least 7 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with grade C or better.

REQUIRED COURSES – Complete 26 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTEC 208</td>
<td>[1]</td>
<td>World of Electricity &amp; Electronics</td>
</tr>
<tr>
<td>INTEC 221</td>
<td>[2]</td>
<td>Instrumentation Devices &amp; Systems</td>
</tr>
<tr>
<td>INTEC 223</td>
<td>[1]</td>
<td>Industrial Elec. Comp. &amp; Control Dev.</td>
</tr>
<tr>
<td>INTEC 248</td>
<td>[3]</td>
<td>Electrical Codes &amp; Ordinances</td>
</tr>
<tr>
<td>INTEC 249</td>
<td>[4]</td>
<td>Analysis of Electrical Codes</td>
</tr>
<tr>
<td>INTEC 261</td>
<td>[3]</td>
<td>Introduction to Plant Maintenance</td>
</tr>
<tr>
<td>INTEC 306</td>
<td>[4]</td>
<td>Intro to Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>ELTEC 232</td>
<td>[3]</td>
<td>Intro to Program. Logic Controllers</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – Complete at least 4 units for A.S. Degree or Certificate

Choose any other INTEC courses.............................................4

TOTAL UNITS FOR CERTIFICATE ............................................. 30

Continued...
A.S. Degree: Industrial Technology - Systems

- To earn an A.S. Degree, students must complete the required courses, complete at least 4 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

TOTAL UNITS REQUIRED FOR A.S. MAJOR .......................... 30

Industrial Technology – Technician

Courses are intended for students that are interested in careers as Production Technicians or Operators, as well as those currently working in the industry that need to update or upgrade their knowledge and skills.

Certificate: Industrial Technology – Technician

- To earn a Certificate of Achievement, student must complete the 17 required units and complete at least 12 units from the elective courses. Each course must be completed with a grade C or better.

REQUIRED COURSES – Complete 17 units

INTEC 115 [1] Introduction to Technical Industries ......................... 1
INTEC 201 [1] Intro to Industrial Operations ................................ 3
INTEC 301 [4] Employability Skills 1 ........................................ 2

ELECTIVE COURSES – Complete at least 12 units for Certificate

Choose any other INTEC courses ........................................... 12

TOTAL UNITS FOR CERTIFICATE ............................................ 29

Machine Tool Technology Program

CNC Program

Certificate: CNC Operator

- To earn a Certificate of Achievement, student must complete the 6 required units.

REQUIRED COURSES

MACH 221 [3] CNC Programming Techniques ......................... 4 OR
MACH 219 [1,2] Introduction to CNC Machine Tool Programming, 2 AND
MACH 222 [NP] CNC Machine Operations (taken twice) .............. 2

TOTAL UNITS FOR CERTIFICATE ........................................... 6

Certificate: CNC Programmer

- To earn a Certificate of Achievement, student must complete the 10 required units

REQUIRED COURSES

MACH 221 [1,2] CNC Programming Techniques (taken twice) ...... 8 OR
MACH 219 [1,2] Introduction to CNC Machine Tool Programming, 4 AND
MACH 220 [3,4] CNC Machine Tool Programming ......................... 4

MACH 222 [3,4] CNC Machine Operations .............................. 1
MACH 399 [3,4] Independent Study ........................................ 1

TOTAL UNITS FOR CERTIFICATE ................................. 10

Machine Tool Technology Program

Certificate: Machine Tool Technology 1

- To earn a Certificate of Achievement, student must complete the 16 required units.

REQUIRED COURSES

MACH 213 C [3 or 4] Machine Tool Technology ........................ 3
MACH 399 [3 or 4] Independent Study ..................................... 2
WELD 200 [NP] Arc & Gas Welding ........................................ 3

TOTAL REQUIRED UNITS FOR CERTIFICATE ...................... 16

Certificate: Machine Tool Technology 2

- To earn a Certificate of Achievement, student must complete the 27 required units and one course from the elective.

REQUIRED COMPETENCIES FOR CERTIFICATE

READ 184 Critical Reading ..................................................... 3 OR
MATH 70 Elementary Algebra ................................................ 3 OR

REQUIRED COURSES - Complete 27 units

MACH 213 [3 or 4] Machine Tool Technology ........................ 4
WELD 200 [NP] Arc and Gas Welding .................................... 3
MACH 399 [3 or 4] Independent Study ..................................... 3
ENGR 220 [1 or 2] Basic Drafting 1 ........................................ 2

Complete 4 units from the following:

MACH 221 [3] CNC Programming Techniques ......................... 4 OR
MACH 219 [3] Introduction to CNC Machine Tool Programming, 2 AND

ELECTIVE COURSES - Complete 3 units

WELD 204 [NP] Gas Metal Arc & Flux REQUIRED Arc Welding .... 3 OR
WELD 206 [NP] Gas Tungsten Arc Welding ............................... 3

TOTAL UNITS FOR CERTIFICATE ........................................... 30

A.S. Degree: Machine Tool Technology

To earn an Associate in Science Degree, student must complete the 27 Required units, 3 elective units, and meet the MJC Associate Degree Requirements.

TOTAL UNITS IN A.S. MAJOR ............................................. 30
**Maintenance Machinist Program**

**Certificate: Maintenance Machinist 1**
- To earn a Certificate of Achievement, student must complete the 9 units

**REQUIRED COURSES**
- MACH 301 [1] Machine Shop 1 ...........................................2
- WELD 200 [NP] Arc & Gas Welding ........................................3

**TOTAL UNITS FOR CERTIFICATE ........................................ 9**

**Certificate: Maintenance Machinist 2**
- To earn a Certificate of Achievement, student must complete the 21 required units

**REQUIRED COURSES**
- INTEC 261 [NP] Introduction to Plant Maintenance ..................3
- INTEC 306 [NP] Intro. to Occupational Safety & Health ............3
- MACH 301 [1] Maintenance Shop 1 ......................................2
- WELD 200 [NP] Arc & Gas Welding ........................................3
- WELD 313 [NP] Layout & Blueprint .......................................1
- WELD 204 [NP] Gas Metal Arc & Flux Core Arc Welding ..........3 OR
- WELD 206 [NP] Gas Tungsten Arc Welding ..............................3
- MACH 399 [3 or 4] Independent Study ...................................1

**TOTAL UNITS FOR CERTIFICATE ...................................... 21**

**Maintenance Electrician Program**

Courses are intended for students who are interested in career opportunities in the Plant or Facilities Maintenance Electrician field as well as those currently working in the industry who need to update or upgrade their knowledge and skills.

**Certificate: Maintenance Electrician**
- To earn a Certificate of Achievement, a student must complete the 24 required units. Each course must be completed with a grade C or better.

**Required Courses – Complete 24 units**
- INTEC 208 [1] World of Electricity & Electronics ....................3
- INTEC 261 [3] Introduction to Plant Maintenance ....................3
- INTEC 265 [NP] Troubleshooting Techniques .........................1
- ELTEC 232 [4] Intro to Program. Logic Controllers ..................2

**TOTAL UNITS FOR CERTIFICATE ....................................... 24**

**A.A. Degree: Maintenance Electrician**
- To earn an A.A. Degree, students must complete the 21 required units and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

**Required Courses – Complete 21 units**
- INTEC 115 [2,3] Introduction to Technical Industries ...............1
- INTEC 223 [1] Industrial Elec. Comp. & Control Dev ...............3
- INTEC 261 [3] Introduction to Plant Maintenance ....................3
- ELTEC 232 [4] Intro to Program. Logic Controllers ..................2

**TOTAL UNITS REQUIRED FOR A.A. MAJOR ......................... 21**

**A.S. Degree Maintenance Electrician:**
- To earn an A.S. Degree, students must complete the 25 required units, complete at least 5 elective units, and meet the MJC Associate Degree Requirements. Each course must be completed with a grade C or better.

**Required Courses – Complete 25 units**
- INTEC 208 [1] World of Electricity & Electronics ....................3
- INTEC 261 [3] Introduction to Plant Maintenance ....................3
- ELTEC 232 [4] Intro to Program. Logic Controllers ..................2

**Elective Courses – Complete at least 5 units**
- INTEC 115 [NP] Introduction to Technical Industries ...............1
- INTEC 223 [2,4] Instrumentation Devices & Systems ...............3
- INTEC 306 [2,4] Intro to Occupational Safety & Health ..........3

**TOTAL UNITS REQUIRED FOR A.S. MAJOR ......................... 30**

**Welding Program**

Student will be able to gas and arc weld in all positions as well as use gas and arc cutting equipment. Upon completion of the A.A./A.S. Degree in welding, the student will be employable in the trades or will be able to transfer to a state university for study in an industrial-related degree program.

**All students who plan to earn a certificate must also meet the following competencies.**

**REQUIRED COMPETENCIES FOR CERTIFICATES**
- READ 184 Critical Reading ................................................. 3 OR
- Reading Competency through Placement Exam
- MATH 20 Pre-Algebra ....................................................... 3 OR
- Eligibility for MATH 70 by MJC assessment process

**Continued**
Fabrication Welding Technician

Certificate: Fabricator Technician

REQUIRED COURSES – Complete 16 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
<td>[1]</td>
<td>Arc and Gas Welding</td>
</tr>
<tr>
<td>SM 331</td>
<td>[1]</td>
<td>Sheet Metal &amp; Installation 1</td>
</tr>
<tr>
<td>WELD 204</td>
<td>[2]</td>
<td>Gas Metal &amp; Flux Core Welding</td>
</tr>
<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
<tr>
<td>WELD 399</td>
<td>[NP]</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 16

Certificate: Gas Metal Arc Welding

• To earn a Certificate of Achievement, the student must meet/complete the required competencies, and complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
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<td>Arc and Gas Welding</td>
</tr>
<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
<tr>
<td>WELD 204</td>
<td>[3]</td>
<td>Gas Metal Arc (MIG) and Flux Core Welding</td>
</tr>
<tr>
<td>WELD 399</td>
<td>[NP]</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 10

Certificate: Shielded Metal Arc Welding

• To earn a Certificate of Achievement, the student must meet/complete the required competencies, and complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 8 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
<td>[1]</td>
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<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
<tr>
<td>WELD 399</td>
<td>[NP]</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 10

Certificate: Gas Tungsten Arc Welding

• To earn a Certificate of Achievement, the student must meet/complete the required competencies, and complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>WELD 399</td>
<td>[NP]</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 10

Certificate: Pipe Welding

• To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – Complete 10 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
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<td>Arc and Gas Welding</td>
</tr>
<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 10

Certificate: Sheet Metal Fabricator

REQUIRED COMPETENCIES FOR CERTIFICATES

- Critical Reading: 3 OR Reading Competency through Placement Exam
- Pre-Algebra: 3 OR Eligibility for MATH 70 by MJC assessment process

TOTAL UNITS FOR CERTIFICATE .................................................. 30

Welding

Certificate: Welding

REQUIRED COURSES – Complete 21 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
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<td>Sheet Metal &amp; Installation 1</td>
</tr>
<tr>
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<td>[2]</td>
<td>Gas Metal &amp; Flux Core Welding</td>
</tr>
<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 30

A.A. Degree: Welding

To earn an Associate in Arts Degree, the student must complete the MJC Associate Degree Requirements in addition to completing the coursework for the Certificate in Welding.

A.S. Degree: Welding

To earn an Associate in Science Degree, the student must complete the MJC Associate Degree Requirements in addition to completing the coursework below.

REQUIRED COURSES – Complete 30 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 200</td>
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</tr>
<tr>
<td>WELD 300</td>
<td>[2]</td>
<td>Intermediate Welding</td>
</tr>
<tr>
<td>MACH 211C</td>
<td>[NP]</td>
<td>Machine Tool Technology 1</td>
</tr>
<tr>
<td>WELD 399</td>
<td>[NP]</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE .................................................. 30
Educational Programs in

General College & Transfer Studies

General College Program

The general college major is an A.A. Degree designed for students who seek to broaden their general education and to explore a variety of subject areas before beginning to specialize or to make occupational choices.

Unlike other Associate of Arts degrees at 20 units, the major requires 24 units. Those units are to be completed in four areas, six units in each area. The courses taken must be numbered between 50 and 399 to apply towards the Associate Degree requirements.

A.A. Major: General College

• To earn an Associate in Arts Degree in General College, the student must complete the MJC Associate Degree Requirements in addition to the coursework below.

REQUIRED: Choose four areas listed below. Complete 6 units of coursework from one or more department in each area for a total of 24 units.

1. **Agriculture Area:**

2. **Allied Health Area:**

3. **Behavioral and Social Sciences Area:**
   - Anthropology, Economics, Geography, Gerontology, History, Human Services, Interdisciplinary Studies, Philosophy, Political Science, Psychology, Social Science, and Sociology.

4. **Biological Sciences Area:**
   - Anatomy, Anatomy and Physiology, Biology, Botany, Environmental Science, Microbiology, Physiology, and Zoology.

5. **Business Area:**
   - Business Administration, Computer Graphics, Computer Science, Office Administration, Real Estate, and Supervisory Management.

6. **Communications Area:**
   - English, Foreign Language (French, German, Portuguese, Spanish), Journalism, Radio/Television, Sign Language, and Speech Communication.

7. **Fine and Performing Arts, and Humanities Area:**
   - Art, Drama, Film, Humanities, Music, Photography, and Theater.

8. **Family and Consumer Sciences Area:**

9. **Physical Sciences, Mathematics, Engineering, and Architecture:**
   - Architecture, Astronomy, Chemistry, Earth Science, Engineering, Engineering Technology, Geology, Math (if not taken in high school, it is desirable that this include at least one course in algebra), Meteorology, Physical Science, Physics, and Science.

10. **Technical Education & Public Safety Area:**

**TOTAL UNITS FOR AA MAJOR .................................................... 24**

Transfer Studies Program

The Transfer Studies major is an A.A. Degree designed for students who plan to earn a Bachelor’s degree by transferring to baccalaureate degree-granting institution following completion of a transfer-oriented course of study at MJC. By completing the requirements for a Transfer Studies major in addition to the MJC Associate Degree requirements, the student will earn an Associate Degree while fulfilling lower-division requirements that can apply towards a Bachelor’s degree.

A.A. Major: Transfer Studies (CSU-GE Pattern)

• To earn an Associate in Arts Degree in Transfer Studies (CSU-GE Pattern), the student must complete the MJC Associate Degree Requirements in addition to following the requirements outlined in the Transfer Studies Plan (following that CSU-GE Transfer Pattern) on page 60.

A.A. Major: Transfer Studies (IGETC Pattern)

• To earn an Associate in Arts Degree in Transfer Studies (IGETC Pattern), the student must complete the MJC Associate Degree Requirements in addition to following the requirements outlined in the Transfer Studies Plan (following that IGETC Transfer Pattern) on page 60.

A.A. Major: Transfer Studies (for Guaranteed Transfer)

• To earn an Associate in Arts Degree in Transfer Studies (for Guaranteed Transfer), the student must complete the MJC Associate Degree Requirements in addition to following the requirements outlined in the Guaranteed Transfer Plan on page 61.
Admission/Matriculation

Modesto Junior College strives to make students aware of the varied educational programs that it offers and to provide smooth access to these programs. Once enrolled, the college provides many services to ensure success. Each student is required to:

- Express at least a broad educational intent upon admission (educational goal and educational program)
- Declare a specific educational goal by the time 15 units are earned
- Participate in assessment, orientation, counseling and advising prior to registration
- Complete an educational plan with a counselor in the semester following the completion of 15 units
- Diligently attend class
- Complete assigned work
- Abide by the Student Code of Conduct
- Read and obey all published college rules and regulations
- Officially enroll in every class before the “add” deadline date and pay all fees within 24 hours of enrollment
- Complete courses and maintain progress toward an educational goal according to standards established by the college

College Records

It is the responsibility of each student to:

- Inform the Admissions and Records Office of changes in personal data (name, mailing address, email address, phone number(s), major goal, educational status, etc.)
- Enroll in each class
- Complete each class or withdraw officially
- Submit legal, not fraudulent documents

Open Courses/Prerequisites

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, part VI, Title 5 of the California Administrative Code, 51820-51823.

Prerequisite Challenge

Any student may challenge a prerequisite on the grounds that (1) it was not established in accordance with the District’s policy; (2) it is in violation of Title 5; (3) it is discriminatory; (4) student can succeed even though student has not completed the prerequisite; or (5) student will be subject to undue delay because the prerequisite has not been made reasonably available. To challenge a prerequisite, the student must complete a prerequisite challenge form (available in the Records Office, Morris Memorial, Room 107) and state the basis for the challenge. A committee from the Division in which the class is offered will review each petition and render a decision within five working days. It is the responsibility of the student to provide information that supports the challenge.
Courses

Courses Offered at MJC
ENGL 48—GRAMMAR REVIEW
Non-degree course.
Recommended for Success: Satisfactory completion of ENGL 49 or Reading Competency satisfied by the MJC assessment process.
Two maximum completions. Lecture.

ENGL 49—BASIC ENGLISH SKILLS
Non-degree course.
Recommended for Success: Satisfactory completion of READ 40 or Reading Competency satisfied by the MJC assessment process.

ENGL 50—BASIC COMPOSITION AND READING
5 Units
Non-degree course.
Prerequisite: Satisfactory completion of ENGL 49; or ESL 47 and 48 with a grade of "C" or higher.
For students who have not already completed an English composition course required for graduation but does not meet English requirements for graduation from Modesto Junior College. Field trips may be required. Lecture. Transfer: (CC ENGL 15) General Education: (C-ID: 1C).

ENGL 90—WRITING THE RESEARCH PAPER
1 Unit
Prerequisite: Eligibility for ENGL 101 or concurrent enrollment in ENGL 50.
Practice in the fundamentals of research and the writing of the research paper in both MLA and APA formats. Lecture.

ENGL 101—COMPOSITION AND READING
3 Units
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC English Assessment Process.
Advanced composition with an emphasis on critical reading and writing skills. Meets English composition requirements for the Associate in Arts degree and requirements for re-certification of other certifications. Recommended for students whose English placement scores fall below entrance into ENGL 50. Open entry/Open exit. (CR/NC Only).

ENGL 45—COMPUTER-ASSISTED FUNDAMENTALS OF WRITING
1 Unit
Recommended for Success: Satisfactory completion of READ 40 (Pre-collegiate Education for Academic Success). ENGL 46 course should and/or concurrent enrollment in ENGL 44 and READ 45.
A computer-based course in the fundamentals of writing, focusing on basic sentence structure and grammar. Emphasis on improving writing fluency, developing sentence structure, and learning to edit for spelling, punctuation, and usage. Credit in this course may not be used to satisfy English requirements for graduation from Modesto Junior College. Field trips may be required. Lecture. Transfer: (CC ENGL 15) General Education: (C-ID: 1C).

ENGL 54—CRITICAL THINKING and INTRODUCTION TO LITERATURE
3 Units
Prerequisite: ENGL 101
Advanced composition course that focuses on critical inquiry and the techniques and practices of reading and writing critically within the context of literature. Field trips may be required. Lecture. Transfer: (CC ENGL 18) General Education: (C-ID: 1B). (C-ID: 1A).

ENGL 103—ADVANCED COMPOSITION and CRITICAL THINKING
3 Units
Prerequisite: ENGL 101
Advanced composition course that focuses on critical inquiry and the techniques and practices of reading and writing critically within the context of literature. Field trips may be required. Lecture. Transfer: (CC ENGL 18) General Education: (C-ID: 1B). (C-ID: 1A).

Course Prefix and Number
Course Title
Subheadings will contain one or more of the following:
- Prerequisite (Prior course work or skill required)
- Corequisite (Course to be taken concurrently if not prior to the listed course)
- Formerly listed as (Previous course prefix and/or number, or title)
- Also offered as (Course offered in another division)

Recommended for success (Course, ability, or skill level suggested Non degree course (Units do not apply toward degree)

Unit Value
Course Description
Lecture and/or Laboratory.
Hours arranged (Laboratory time arranged on individual basis)

(A-F Only) Letter grade only for course completion.

(CR/NC Only) Credit/No Credit only, no letter grade given

(A-F or CR/NC) Option to complete course for letter grade or CR/NC

Parentheses will contain one or more of the following:
- Transfer: indicates the transferability of a course to California State University (CSU), University of California (UC), and/or another division

General Education: Identifies whether or not a course fulfills a General Education requirement area specified in one of the three General Education patterns.

Evening: Evening only (after 4 p.m.)
Fall: Fall semester only
Spring: Spring semester only
Summer: Summer only

184 COURSES OFFERED AT MJC
ADJU 145—COMMUNITY AGENCY SERVICE 1 Unit
Prerequisite: Satisfactory completion of ADJU 201
Concurrent enrollment: ADJU 145A, ADJU 145B, ADJU 145C, or ADJU 145D.
Analysis of field experiences of students concurrently enrolled in ADJU 145A, 145B, 145C, or 145D. Class time is devoted to sharing and evaluating problems that develop, and ways of resolving them will be sought by class members. Lecture. Three maximum completions. Transfer: CSU

ADJU 145 A.B.C.D.—COMMUNITY AGENCY SERVICE FIELDWORK 1-4 UNITS
Prerequisite: Satisfactory completion of ADJU 201
Concurrent enrollment: ADJU 145
Supervised field experience in a variety of community social agencies. Weekly lab: 75 hours of work experience or 60 hours of volunteerism in a community service/social agency are required for every unit earned each semester. May be repeated up to 16 units in any combination. Transfer: CSU

ADJU 201—INTRODUCTION TO ADMINISTRATION OF JUSTICE 3 Units
History and philosophy of the administration of justice in America. Overview of its subsystems, including their role expectations and interrelationships. Overview of theories to account for crime, punishment and rehabilitation. Introduction to professional education, training and ethics in the administration of justice field. Field trips may be required. Lecture. (A-F Only) Transfer: CSU; UC (CAN AJ 2) General Education: (MJC-GE: B) (CSU-GE: D.0)

ADJU 202—PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM 3 Units
Recommended for Success: Satisfactory completion of ADJU 201
Role and responsibilities of each Administration of Justice system segment; law enforcement, judicial, corrections. Past, present and future exposure to each sub-system procedure from initial entry to final disposition; relationship each segment maintains with its system members. Field trips may be required. Lecture. (A-F Only) Transfer: CSU

ADJU 203—CONCEPTS OF CRIMINAL LAW 3 Units
Recommended for Success: Satisfactory completion of ADJU 201 and 202.
Historical development, philosophy of law and constitutional provisions; definitions, classification of crime and their application to Administration of Justice system; legal research, case law, methodology and concepts of law as a social force. Field trips may be required. Lecture. (A-F Only) Transfer: CSU and UC (CAN AJ 4)

ADJU 204—LEGAL ASPECTS OF EVIDENCE 3 Units
Recommended for Success: Satisfactory completion of ADJU 202 and 203.
Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. Field trips may be required. Lecture. (A-F Only) Transfer: CSU (CAN AJ 6)

ADJU 205—COMMUNITY RELATIONS 3 Units
Roles of Administration of Justice practitioners and agencies. Interrelationships and role expectations among the various agencies and the public. Principal emphasis on the professional image of Administration of Justice system and development of positive relationships between system members and the public. Lecture. (A-F Only) Transfer: CSU, UC

ADJU 206—MULTICULTURAL CONCEPTS WITHIN PUBLIC SAFETY 3 Units
Overview of multicultural concepts and issues; application of those concepts and issues to the four public safety disciplines: corrections, fire safety, hazardous materials, law enforcement. Identification of problems related to an increasingly diverse population. Examination of strategies to overcome those problems, particularly in relation to the maintenance of social order. Field trips required. Lecture. (A-F Only) Transfer: CSU

ADJU 210—COMMUNICATIONS IN CRIMINAL JUSTICE 3 Units

ADJU 212—CRIMINAL INVESTIGATION 3 Units
Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow-up and case preparation. Lecture. Field trips may be required. (A-F Only) Transfer: CSU (CAN AJ 8)

ADJU 213—PATROL PROCEDURES 3 Units
Responsibilities, techniques and methods of police patrol. Field trips required. Lecture. (A-F Only) Transfer: CSU

ADJU 215—INTRODUCTION TO FIREARMS 1 1/2 Units
Limitation on Enrollment: This course is restricted under California Penal Code Section 12021, course requires handling and possessing of firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 12021. Prior to the use of a firearm in the course, each student must sign a declaration to the effect that he or she is prohibited from such use by Penal Code Section 12021.

Historical evaluation, ownership evaluation, moral aspects, legal provisions, safety precautions, and restrictions covering the use of firearms; field demonstration and basic instruction in use of sidearms. Students must provide own ammunition. The instructor reserves the right to remove a student from the firing range due to a safety violation. Lecture/Laboratory. Students may repeat any combination of ADJU 215/216 or 219 for a maximum of 4 completions. Materials fee required. Field trips may be required. (A-F Only) Transfer: CSU

ADJU 216—ADVANCED FIREARMS AND RANGE APPLICATION 1 1/2 Units
Prerequisites: Satisfactory completion of ADJU 215 or LENV 388.
Limitation on Enrollment: This course is restricted under California Penal Code Section 12021, Course requires handling and possessing firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 12021. Prior to use of a firearm in the course, each student must sign a declaration to the effect that he or she is not prohibited from such use by Penal Code Section 12021.

A continuation of ADJU 215. In-depth review of legal aspects of firearms. Range firing of various weapons; usage of non-lethal weapons. Students must provide own ammunition, hearing protectors, and safety glasses. The instructor reserves the right to remove a student from the firing range due to a safety violation. Lecture/Laboratory. Three maximum completions. Field trips may be required. Materials fee required. (CR/NC only) Transfer: CSU

ADJU 217—SUBSTANCE ABUSE 3 Units
Recommended for Success: Satisfactory completion of ADJU 201 and 202
Basic understanding of controlled substances, including identification, physiological effects, testing, and use detection, methods of control and investigation, applicable laws controlling use, treatment processes, and patient rights to confidentiality. Lecture. One completion allowed. (A-F Only) Transfer: CSU

ADJU 219—CORRECTIONS FIREARMS TRAINING 1 1/2 Units
Prerequisite: Satisfactory completion of ADJU 215.
Limitation on Enrollment: This course is restricted under California Penal Code Section 12021. Convicted felons, persons addicted to any narcotic or convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course.

Laws, policies, and ethical considerations with specialized training in weaponry used by correctional agencies. Range firing of rifles, shotguns, and handguns. Students must provide safety glasses and hearing protectors, and ammunition. Course is restricted under state and federal laws. Instructor reserves the right to remove a student from the firing range due to a safety violation. Students may repeat any combination of ADJU 215/216 or 219 for a maximum of 4 completions. Lecture/Laboratory. Field trips may be required. Materials fee required. (A-F Only) Transfer: CSU
ADJU 222 — PROFILING TERRORISM 3 Units
Recommended for success: Satisfactory completion of ADJU 201.
Discusses the most significant theories by the best terrorist analysts in the world, while still focusing on the domestic and international threat of terrorism and the basic security issues surrounding terrorism today. Social-historical origins of terrorism, criminal, legal, and social response to terrorism, at-risk populations, prevention, and intervention strategies. Lecture. Two maximum completions. (A-F Only) Transfer: CSU

ADJU 232 — JUVENILE JUSTICE PROCEDURES 3 Units

ADJU 234 — CRIME CAUSATION 3 Units
Principals theories commonly utilized in accounting for many known facts of criminality. Emphasis on implications and logic of certain theoretical positions common to much thinking and writing in the field. Lecture. (A-F Only) Transfer: CSU

ADJU 235 — INTRODUCTION TO CORRECTIONS 3 Units

ADJU 236 — CORRECTIONAL LAW 3 Units
Overview of the Constitutional provisions and definitions of laws relating to the corrections component of the Criminal Justice System. Emphasis on the legal aspects concerning adult offenders and correctional personnel with the Dept. of Corrections, juvenile offenders and correctional personnel with the Youth Authority and diversion agencies. The laws will entail Federal, State, and Local jurisdictions. Field trips required. Lecture. (A-F Only) Transfer: CSU

ADJU 240 — DRUG AWARENESS ½ Unit
Basic understanding of current drugs of abuse including psychological and physical symptomology, appearance, and social implications. Lecture. (A-F Only) Transfer: CSU

ADJU 242 — DOMESTIC VIOLENCE PREVENTION ½ Unit

ADJU 243 — DOMESTIC VIOLENCE CRISIS INTERVENTION 3 Units
Recommended for success: Satisfactory completion of ADJU 201 or 242.
Domestic violence as a pervasive and significant social issue requiring both prevention and intervention. Social-historical roots of family violence, criminal, legal, and social response to violence, at-risk populations, prevention, and intervention strategies. Lecture. (A-F Only) Transfer: CSU

ADJU 349 — A, B, C, D WORK EXPERIENCE 1, 2, 3, 4 Units
Designed for students who wish to combine classroom experience with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Work must directly relate to the student’s area of study. Maximum 4 units may be earned per semester. May be repeated to a maximum of 16 units Work Experience credit. (Cooperative General Work Experience is included in the maximum.)

ADJU 351 — ELEMENTS OF SUPERVISION IN PUBLIC SAFETY 3 Units
The nature and function of the supervisor’s role in business, industry, and government. The skills and techniques of effective management will be examined and applied in terms of attaining maximum results through the cooperative efforts of others. Lecture.

AG (Agriculture, Vocational & Technical)
Vocational Agriculture courses are designed to prepare for occupational entry into skilled or semi-professional fields of agriculture. Technical Agriculture courses are designed to prepare for occupational entry into the technical fields of agriculture.

AG 100A, B — LEADERSHIP IN AGRICULTURE 1, 2 Units
Lecture and supervised activities relating to student participation in agricultural competitions, judging contests, livestock exhibitions, recruitment programs, award programs, and scholarship applications, and youth activity planning. Field trips required. Lecture/Independent study. Students may not exceed a total of 2 units in AG 100A only. Transfer: CSU. (MJC Activities)

AG 115 — INTRODUCTION TO AGRICULTURAL EDUCATION AND CAREERS 1 Unit
Introduction to educational and agricultural employment opportunities. Includes portfolio and educational plan development and curriculum requirements that pertain to educational goals as they relate to agriculture majors. Assists students in setting goals and developing skills necessary for life-long success in obtaining, maintaining, and advancing in agriculture careers. Current events that impact agriculture and society will be discussed. Lecture. (A-F Only) (Guidance) Transfer: CSU

AG 120 — INTRODUCTION TO AGRICULTURE EDUCATION 2 Units
Overview of agricultural education and agricultural education programs including goals and purposes, kinds of classes, types of programs, and qualifications essential to successful agriculture teaching. Field trips may be required. Lecture plus participation in agricultural events, leadership activities and FFA involvement. (A-F Only) Transfer: CSU

AG 130 — AGRICULTURE EDUCATION EARLY FIELD EXPERIENCE 2 Units
Prerequisite: Minimum completion of 12 units in agriculture course work.
To increase the awareness of opportunities for prospective agriculture teachers through observation, participation in the field and through analysis of field experiences. Students will be expected to complete 20 hours of observation/field activities. The off-campus activities shall be supervised by the course instructor and shall take place in an approved agriculture department. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AG 249 — AGRICULTURE INTERNSHIP 4 Units
Placement as an employee with selected agribusiness firms dealing with the production, manufacturing, retailing, retail and wholesale production, growers, mechanics, sales and services of agriculture products in public and private agencies. The experience must be related to the student’s major. The student will be under the joint supervision of the employer and a faculty member; 300 paid hours or 240 unpaid hours of related internship per semester. (CR/NC Only) Transfer: CSU

AG 280 — AGRICULTURAL COMPUTATIONS 3 Units
Prerequisite: Satisfactory completion of MATH 20 or equivalent or qualification by MJC assessment process. Practical problems in production agriculture, agriculture mechanics, agriculture business, and natural resources. Includes problems in algebra, geometry, money and interest, equipment calibration, metrics and graphics. Lecture/Laboratory. (A-F Only) Transfer: CSU

AG 285 — AGRICULTURAL COMMUNICATIONS 3 Units
Formerly listed as AG 285 - Communications in Agriculture
Methods of gathering and organizing data and writing reports. Communicating data. Lecture. (A-F Only) Transfer: CSU

COURSES OFFERED AT MJC
AG 300—AGRICULTURAL FIELD PRACTICES 1 Unit
Practice in basic in-season farm operations including the use of common farm machinery and equipment, soil tillage, cultivation, harvest and irrigation; farmstead maintenance including the use of minor equipment such as sprayers, burners and chemical applicators; livestock and dairy operations including care, feeding and handling. Recommended for students with inadequate agricultural experience for satisfactory progress toward occupational objectives, but open to all students. Field trips required. Laboratory. (A-F Only)

AG 305—SUPERVISION IN AGRICULTURE 2 Units
Formerly listed as AGEC 305.
Training agriculture managers, superintendents and crew leaders in the principles of supervision, maintaining effective relationships, handling personnel problems, instructing new personnel on job performance, and analyzing job efficiency. Designed for West Campus student residents. Field trips required. Four maximum completions. Lecture plus applied skills. (A-F Only)

AG 349 A,B,C,D—WORK EXPERIENCE 1, 2, 3 and 4 Units
AGRICULTURE—SUPERVISED PRACTICE
Corequisite: Enrollment in a minimum of 7 units, which may include Cooperative Vocational Work Experience.
Designed for agriculture majors who wish to combine classroom experience with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Work must directly relate to the student’s area of study. Maximum of 4 units may be earned per semester. May be repeated to a maximum of 16 units. Work Experience credit (Cooperative General Work Experience is included in this maximum.) Also offered during May, June and July. Lecture/Other

AG 376—BASIC SCIENCE AND LABORATORY TECHNIQUES 3 Units
Essential laboratory techniques and basic science principles and information designed to qualify students for service in agriculture at technical levels. Field trips are required. Lecture/Laboratory. (A-F Only) General Education: (MJC-GE: A)

AG 390 A,B,C,D—AGRICULTURAL ½,1,2,3,4 Units
SKILLS TRAINING
Emphasis on developing or upgrading skills of agricultural employees. Field trips are required. Four maximum completions. Total number of AG 390 A,B,C,D units not to exceed eight total units. Lecture/ Laboratory. (A-F Only)

NON-CREDIT COURSES

AG 610—AGRICULTURE SCIENCE FIELD DAY Participation in MJC’s Agricultural Science Field Day includes evaluation of agricultural products and livestock, troubleshooting agricultural equipment and demonstration of various agriculturally-related skills. Four maximum completions. Materials fee required. (Spring)

AG 820A-D—AGRICULTURAL SKILLS AND LEADERSHIP DEVELOPMENT Non-credit participation in any of MJC’s agricultural skills and leadership development activities including: agricultural product preparation, sales or marketing, agricultural product exhibition, poultry processing, agricultural field day organization and other agricultural leadership activities. Hours variable by activity. Four maximum completions.

AGEC
(Agricultural Economics)

AGEC 55—PREPARATORY AGRICULTURE COMPUTER APPLICATIONS 3 Units
Preparation for computer use in the workplace, emphasizing agribusiness situations, use of computer applications software, including word processors, spreadsheets, and databases. Includes information accessing, telecommunications, and other software appropriate to agribusiness. Lecture/Laboratory.

AGEC 200—AGRICULTURAL ACCOUNTING AND ANALYSIS 3 Units
Study of agricultural accounting and types of records, their use and how to compute and use measures of earnings and cost of production to improve efficiency in agricultural operations. Agricultural income tax problems. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU

AGEC 208—INTRODUCTION TO INTERNATIONAL BUSINESS 3 Units
Recommended for Success: Satisfactory completion of BUSAD 248 Also offered as BUSAD 208.
A comprehensive overview of international business. Offers a global perspective of international trade, international marketing, international accounting, the operation of multinational companies, economic theories and forces, international organizations and the political and cultural impact of world trade. Lecture. Field trips required. Transfer: CSU

AGEC 209—IMPORT/EXPORT FUNDAMENTALS 3 Units
Recommended for Success: Satisfactory completion of AGEC 208 Also offered as BUSAD 209.
Overview of processes and procedures involved in importing and exporting products and services. Special emphasis on finance and financial documentation. Lecture. Field trips required. Transfer: CSU

AGEC 210—ELEMENTS OF AGRICULTURAL ECONOMICS 3 Units
The place of agriculture and farming in the economic system: basic economic concepts and problems of agriculture; pricing and marketing problems, factors of production; state and federal farm programs affecting the farmer’s economic position. Field trips required. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU. General Education: (MJC-GE:B) (CSU-GE: D2)

AGEC 215—AGRICULTURAL MARKETING 3 Units
Structure and framework of agricultural marketing, history and present trends; marketing principles, policies, channels, institutions, regulatory agencies, cooperatives, marketing orders, cyclical and seasonal price variations, integration, and foreign and domestic trade; consideration of specific marketing problems affecting area commodities. Field trips required. Lecture/Laboratory. (A-F Only) (Spring) Transfer: CSU

AGEC 220—AGRICULTURAL BUSINESS MANAGEMENT 3 Units
Recommended for Success: Satisfactory completion of AGEC 200, AG 285 or equivalent, MATH 70 or equivalent, and one AG production class.
Principles of agricultural management and measures of earnings in determining production efficiency; property reports, study and reorganization of a given farm with application of above principles; term report and field laboratories required. Lecture/Laboratory. (A-F Only) (Spring) Transfer: CSU

AGEC 225—AGRICULTURE COMPUTER APPLICATIONS 3 Units
Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, and other software appropriate to agribusiness. Lecture. (A-F Only) Transfer: CSU, UC (CAN AG 2)

Continued
AGEC 280—AGRICULTURAL SALES AND SERVICE 3 Units
Recommended for Success: Completion of three agriculture courses (preferably two or more agriculture production courses and one or more agribusiness courses).
Introduction to sales and service professions with emphasis on, but not limited to, the agribusiness sector. Provides both theoretical background and experiential exercises on a variety of sales and service facets including: the sales industry, identifying and understanding personalities, motivating people, sales presentations, prospecting, sales management, and advertising and promotion. Designed to prepare for employment or augment a current sales job. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGEC 325—INTRODUCTION TO PRACTICAL AGRICULTURAL COMPUTING 1 Unit
Introductory computer use in the agricultural workplace, emphasizing agribusiness situations, brief overview of the use of computer applications software, including word processors, spreadsheets and databases. Includes information accessing, telecommunications, and other software appropriate to agribusiness. Two maximum completions. Lecture/Other. (A-F Only).

AGEC 326—PRACTICAL AGRICULTURE SPREADSHEET APPLICATIONS 1 Unit
Recommended for Success: Satisfactory completion of AGEC 325 or the equivalent.
Using computer spreadsheet applications for developing a series of financial statements and production records pertaining to various agricultural operations. Agricultural industry-standard forms will be developed using lending institutions’ models. Two maximum completions. Lecture/Other. (A-F Only).

AGEC 327—PRACTICAL AGRICULTURE TELECOMMUNICATIONS 1 Unit
Recommended for Success: Satisfactory completion of AGEC 325 or the equivalent.
Using telecommunications and the World Wide Web to gather agricultural information including market reports, weather, commodity pricing, etc. Purchasing agricultural inputs, accessing current agricultural technology, troubleshooting production and agribusiness problems, and marketing agricultural products will also be explored. Two maximum completions. Lecture/Other. (A-F Only).

AGGE (Agriculture, General)

AGGE 145—PARLIAMENTARY PROCEDURE 1 Unit
Also offered as SPCCOM 145.
Introduction to Parliamentary Procedure. Preparing for and participating in meetings as a member, officer, and chairperson. Rank and use of motions. Two maximum completions. Lecture/Other. (CRNC Only) Transfer: CSU

AGGE 146—AGRICULTURE, ENVIRONMENT AND SOCIETY 3 Units
The sociology of agriculture presented through an examination of relationships between societies and their environments, economics, and agriculture. Emphasis on the analysis of agriculture’s use of technology and the corresponding impact on the environment, economy and society. Field trips may be required. Lecture. Materials fee may be required. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D7)

AGGE 306—SUBURBAN AGRICULTURE AND LIVING 2 Units
Designed for small farm owners, potential small farm owners, or those interested in agriculture on a smaller scale but open to all students. Emphasis on ecologically and economically sound methods as applied to larger than garden-sized units. Topics include: economics, land appraisal and purchase, food preservation, and development of a farm plan. Field trips required. Two maximum completions. Lecture.

AGGE 307—AQUACULTURE: HUSBANDRY OF AQUATIC PLANTS AND ANIMALS 1 Unit
Raising aquatic plants and animals as sources of food. Includes an overview of the United States and world aquaculture industries, biology of organisms (emphasis on fish); various production systems; management of fish, invertebrates, the plant aquatic; and the legal aspects of developing a fish farm. Integrating aquaculture into existing farm programs. Field trips required. Two maximum completions. Lecture.

AGGE 320—EVALUATION OF AGRICULTURAL PRODUCTS 1 Unit
Evaluation skills in selecting animal, plant, mechanical, and business products. Four maximum completions. Field trips required. Lecture. Materials fee required. (A-F Only)

AGM (Agricultural Mechanics)

AGM 50—PREPARATION FOR MECHANICAL TECHNOLOGY* 3 Units
Preparation in woodworking, cold metal, forging, plumbing and welding as related to farm maintenance and repair. Designed for agricultural students who need development in basic mechanical skills. Field trips may be required. Lecture/Laboratory. Materials fee required.

AGM 200—INTRODUCTION TO MECHANICAL TECHNOLOGY* 3 Units
Also offered as INTEC 200.
Basics in woodworking, cold metal, forging, plumbing and welding as related to farm maintenance and repair. Designed for agricultural students who need development in basic mechanical skills. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU (CAN AG 4)

AGM 210—AGRICULTURAL WELDING* 3 Units
Introduction and basic instruction in oxy-acetylene welding and cutting techniques and shielded metal arc welding. Fusion welding, brazing and heating will also be covered as well as safety and machine operation. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

AGM 211—ADVANCED AGRICULTURAL WELDING* 3 Units
Prerequisite: Satisfactory completion of AGM 210 or equivalent experience.
Recommended for Success: Two years of high school welding.
Advanced welding and other metallurgical techniques such as pipe fitting, hard facing, MIG (GMAW) and TIG (GTAW) welding on aluminum and stainless steel. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

AGM 214—EQUIPMENT SERVICE AND SAFETY 1 Unit
Safe tractor, forklift, and machinery operation, service and key safety practices found in shops. Safe handling of chemicals used in farming and fire safety. A job skills course for students involved in farming practices on college property. Supervised field operation and field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 215—FARM TRACTORS 2 Units
Selection, application, operation, maintenance and minor repair of wheel and track type farm tractors. Field laboratories required. Saturday laboratories may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 220—FARM MACHINERY* 3 Units
Recommended for Success: Satisfactory completion of AGM 280 or other math equivalent.
Operation, selection and care of farm machinery common to this area. The calibration, repair, adjustment and hitching of machinery. Principles of power and its transmission as related to machinery. Field trips and semester notebook required. Lecture/Laboratory. (A-F Only) Transfer: CSU
AGM 221—FARM EQUIPMENT 3 Units
Basic mechanical principles and designs used in the construction and repair of farm equipment. Machinery management, operation, selection, and repair of machinery used in construction work and farming. Calibration, adjustment, hitching, principles of power transmission and safety as related to machinery. Field trips may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 222—ORNAMENTAL HORTICULTURE MACHINERY 1 Unit
Operation, care, maintenance and service of machines and equipment commonly used in ornamental horticulture businesses such as nurseries, turf farms, golf courses, parks, and home landscaping and maintenance professions. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 225—RESIDENTIAL AND FARMSTEAD ELECTRICAL WIRING AND PRINCIPLES 3 Units
Also offered as INTEC 225.
Fundamental principles, systems and applications of electrical energy and the equipment necessary to manually or automatically control that energy. Field laboratories required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

AGM 230—FIELD SURVEYING 2 Units
Recommended for success: Satisfactory completion of MATH 70 or AG 280.
Also offered as ENGR 230.
Selection, care and checking of tapes, levels, GPS and laser systems. Introduction to total station care and use. Field observations, note taking and office computations; use of surveying instruments and equipment for land measurement and mapping; practice in differential, profile, and contour leveling; horizontal angles, traverses, and construction problems used in public lands surveying, legal descriptions, and county records. Lecture/Laboratory. Field trips required. (A-F Only) Transfer: CSU

AGM 235—IRRIGATION AND DRAINAGE 3 Units
Irrigation and drainage problems relating to pumps, motors, sprinkler systems, structures, pipelines, ditches and wells; computation of costs and measurement of water; water law; basic principles of plant-soil-moisture relations and water movement in soil. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 240—FARM POWER 3 Units
Recommended for Success: Previous experience or knowledge of power units.
Principle of operation of internal combustion engines including gasoline, diesel, and liquefied petroleum. Major overhaul, and repair, trouble-shooting, servicing, and maintenance of engine units and their accessory systems; power transmission units including clutches, transmissions, and final drives. Farm power unit selection, operation, and management. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 241—COMPACT DIESEL ENGINES 2 Units
Recommended for Success: Satisfactory completion of AGM/AUTC 389 or AUTC 390 or equivalent.
Also offered as AUTC 241.
This course explores the design, operation, and proper maintenance of the latest compact diesel engines approved by the California Air Resources Board (CARB) for operation and sales in California after 1997. Topics include fuel characteristics, current emissions testing and standards, related engine systems, operation and trouble-shooting. Problem-solving component failures and disassembly/assembly of representative engine will be covered. (Engine Equipment Training Council certification approved course.) Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

AGM 245—DIESEL ENGINE FUEL SYSTEMS 3 Units
AND DIAGNOSIS
The study of common types of diesel fuel injection systems. Design and theory of operation of distributor type, in-line type, as well as electronically controlled systems. Testing and diagnostic procedures for various fuel systems is a major component of the course. Service and adjustments of injectors, nozzles, and governors will also be covered. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 251—FARM CONSTRUCTION AND MATERIALS* 4 Units
Prerequisites: Satisfactory completion of AGM 200 and 210.
Types, costs and characteristics of construction materials; their use in farm equipment and buildings. Structural requirements, cost factors, safe loads, animal and equipment requirements, operation and labor efficiency, adaptability to the community. Designing and building projects in the shop and group field work. Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) (Spring) Transfer: CSU

AGM 252—FARM CONSTRUCTION ADVANCED LAB* 2 Units
Prerequisite: Satisfactory completion of AGM 251
Types, costs and characteristics of construction materials; their use in farm equipment and buildings. Structural requirements, cost factors, safe loads, operation and labor efficiency, adaptability to the community. Designing and building projects in the shop and group field work. Field trips required. Laboratory. Materials fee required. (A-F Only) Transfer: CSU

AGM 262—HYDRAULICS/PNEUMATICS 3 Units
Also offered as INTEC 262.
Principles and practices of hydraulics/pneumatics as used in the industry. Study of the different applications and management of hydraulics for the most efficient use. Basic pneumatic principles and application systems. Field trips may be required. Two maximum completions. Lecture. Transfer: CSU

AGM 280—FLUID POWER SYSTEMS 3 Units
Recommended for Success: Satisfactory completion of AG 280 and (AGM 215 or 220)
Fundamental principles and practices of hydraulic circuitry as applied in hydraulic applications and system design. Study of standard hydraulic oil and pneumatic components found on mechanical units in transmissions, braking devices, auxiliary and accessory power units. System design term project required. Field trips required. (National Outdoor Power Equipment (OPE) Association certification approved course.) Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 289—PRINCIPLES OF POWER MECHANICS/ SMALL ENGINES 3 Units
Formerly listed as: AGM/AUTC 389
Also offered as AUTC 289.
Introduction to the operation, construction, maintenance, repair and adjustments of two and four-stroke engines. Designed for persons without prior experience in engine repair. Experienced technicians will also benefit. This course is not repeatable. Field trips may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU

AGM 310—AGRICULTURAL WELDING 2 Units
Basic welding techniques and theory instruction in oxy-acetylene welding and cutting, shield metal arc welding, and flame and vertical fusion welding. Introduction to MIG welding, brazing, and heating will also be covered as welders. Lecture/Laboratory. Field trips required. (CRIN Only)

AGM 376—FARM WELDING 1 Unit
Short term basic course in the techniques of operating electric welding machines, oxy-acetylene torches, metal inert gas welding equipment. Welding, heating, brazing, cutting, hard surfacing and soldering of most common types of metals in all positions will be covered. Lecture/Laboratory. Not offered every semester. (A-F Only)

Continued on
ANAT 125—HUMAN ANATOMY 4 Units  
Prerequisite: Satisfactory completion of AP 50 or BIO 101 or BIO 111, or AP Biology score of 4 or 5 (see "Prerequisite Challenge Process")

Study of human body structures including organ, tissue, and cellular relationships. Involves extensive use of models, specimens, histological material, and dissection. Cadaver materials and demonstrations used. Intended for students entering the health professions. This course is not repeatable. Lecture/Laboratory. Transfer: CSU, UC (CAN BIOL 10) (CAN BIOL SEQ B) (CC BIOL 10) General Education: (CSU-GE: B2)

ANSC (Animal Science)

ANSC 50—PREPARATORY ANIMAL SCIENCES 3 Units  
A preparatory survey of the livestock industry, supply of animal products and their uses. A special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the ag industry. Analyze the economic trends and career opportunities in animal agriculture. Field trips required. Lecture.

ANSC 200—INTRODUCTION TO ANIMAL SCIENCE 3 Units  
A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, genetics, and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agricultural industry. Field trips may be required. Lecture. (A-F Only) Transfer: CSU, UC (CAN AG 6) General Education: (MJC-GE: A)

ANSC 201—BEF Beef Cattle Science 3 Units  
A study of the principles and practices of purebred and commercial beef cattle production throughout California, the U.S. and the world. Emphasis to be placed on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record-keeping to ensure scientifically-based management decisions and consumer product acceptance as applied to beef cattle. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (CAN AG 20)

ANSC 202—SWINE SCIENCE 3 Units  
A study of the principles and practices of purebred and commercial pork production throughout California, the U.S., and the world. Emphasis to be placed on importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record-keeping to ensure scientifically-based management decisions and consumer product acceptance. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC. (CAN AG 24)

ANSC 203—SHEEP SCIENCE 3 Units  
A survey of the sheep industry including management of commercial, purebred and small farm flocks; selecting, feeding, breeding and basic care of ewes and lambs plus marketing of lambs and wool. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC. (CAN AG 22)

ANSC 205—BEEF CATTLE BREEDS 1 Unit  
Breeds of cattle available to beef cattle breeders. History, development and characteristics emphasizing the merits and limitations of various breeds. Field laboratories including one or two on Saturdays required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 207—EQUINE SCIENCE 3 Units  
A survey of the equine industry; selection, feeding, breeding, facilities, handling and health management will be emphasized to ensure scientifically-based management decisions. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (CAN AG 26) (Spring)

ANSC 208—CARE AND HANDLING OF HORSES AND TACK 3 Units  
Basic care of the horse and equipment. Types of equipment, horse handling skills including training and riding. Student is expected to provide own horse. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 209—EQUINE BREEDING AND REPRODUCTION 2 Units  
Recommended for Success: Satisfactory completion of ANSC 207 A short-term, advanced level course designed for those interested in learning more about equine breeding and reproduction. Field trips required. Lecture/Other. (A-F Only) Transfer: CSU

ANSC 210—LIVESTOCK SELECTION AND EVALUATION 3 Units  
Detailed analysis of various visual and physical methods of appraising beef, sheep, swine and horses concerning functional and economic value. Written and oral summaries of evaluation will be required. Specific reference will be made to performance data and factors determining carcass value. Lecture/Laboratory/Required attendance at judging contests arranged. Two maximum completions. (A-F Only) Transfer: CSU, UC

ANSC 211—INTRODUCTION TO MEAT SCIENCE 3 Units  
An introductory course to the meat industry with a special emphasis on meat products and value-added meat processing techniques. Concepts on food safety and sanitation, grading and inspection along with preservation and marketing strategies to meet current consumer demands. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

ANSC 212—ADVANCED LIVESTOCK SELECTION AND CARCASS EVALUATION 3 Units  
Recommended for Success: ANSC 210 Advanced study of animal conformation as related to its various functions. Evaluation of beef, sheep and swine species using performance and carcass data as well as live animal observation. Oral interpretation of these evaluative criteria. Formal reasoning presentations required. Two maximum completions. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU

ANSC 214—LIVESTOCK FEEDING AND NUTRITION 3 Units  
The fundamentals of digestion and absorption in both ruminants and nonruminants are discussed. The nutritive value of feeds as they relate to the formulation of livestock rations will be emphasized, including by-product feeding. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC. (CAN AG 12)

ANSC 215—ANIMAL HEALTH AND SANITATION 3 Units  
Common livestock diseases and fundamentals of immunity. Includes coverage of the livestock worker’s role in promoting animal health and the foundation of disease control programs. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

ANSC 216—LIVESTOCK BREEDING AND SELECTION 3 Units  
Anatomy and physiology of male and female reproductive systems, endocrine system, and problems affecting reproductive efficiency: fertilization, gestation, and parturition. Principles of herd as applied to livestock breeding and improvement; systems of breeding; environmental factors affecting reproduction and performance. Livestock selection programs based on performance and progeny. Field laboratories including some on Saturdays required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC. (CAN AG 12)

ANSC 217—ADVANCED BREEDING AND ARTIFICIAL INSEMINATION 4 Units  
Recommended for Success: Satisfactory completion of ANSC 201 and 220 and (ANSC 216 or 226) Advanced study and practical application of breeding principles and artificial insemination of farm animals; the collection, evaluation, and handling of semen; nutritional level, and sanitation practices affecting reproductive efficiency; public relations, and the responsibilities of the technician and the management. Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU, UC

Continued...
ANSC 218—LIVESTOCK MANAGEMENT 3 Units
Recommended for Success: Suggested sophomore standing, and satisfactory completion of at least one animal production course, AGEC 200 and AGEC 215. Functional steps of management, agricultural resources, decision making procedures and instruments, planning and evaluating the livestock program, cost of production, management analysis, marketing, finance and credit, livestock industry trends. Field laboratories including some on Saturdays required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

ANSC 220—DAIRY INDUSTRY/DAIRY SCIENCE 3 Units
History, development and projects of the dairy industry. General information on the economics of dairying, facts, trends, selection, culling, fitting, showing, judging, pedigrees, feeding and basic management skills; employment opportunities and requirements. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC, (CAN AG 28)

ANSC 221—DAIRY CATTLE SELECTION AND EVALUATION 3 Units
Selection of dairy cattle on type conformation and the correlation between type and production. Pedigree evaluation, animal analysis, linear classification and body condition scoring. Written and oral evaluation on selection. Field trips required. Two maximum completions. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU, UC

ANSC 222—MILK PRODUCTION AND TECHNOLOGY 3 Units
Milk and milk product consumption and the economics of milk production. Discusses the mammary system anatomy, the physiology of milk secretion, the composition and the properties of milk, including factors of production. Evaluation of milking parlors and equipment, systems, analysis and operation is also included. Milk testing, sanitation, quality control, udder health and treatment as well as dairy mathematics. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 224—DAIRY FEEDS AND FEEDING 3 Units
Fundamentals of digestion and absorption in ruminants. The nutritive value of feeds as they relate to the formulation of dairy rations will be emphasized, including by-product feeding. Term project and field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 226—DAIRY BREEDING AND SELECTION 3 Units
The study of basic genetic principles with the study of the anatomical and physiological aspects of reproduction as they relate primarily to the bovine. Genetic principles to be emphasized include basic inheritance, selection techniques, mating systems, heterosis, and performance evaluation. Reproductive aspect to include endocrinology, estrous cycles, mating behaviors, gametogenesis, conception, gestation, parturition, and maternal behaviors. Artificial insemination, embryo manipulation, and current innovations in reproductive biotechnology will also be examined. Field laboratories required. Lecture/ Laboratory. (A-F Only) Transfer: CSU

ANSC 227—ADVANCED DAIRY CATTLE SELECTION AND EVALUATION 3 Units
Prerequisite: Satisfactory completion of ANSC 221
Advanced study of dairy conformation as related to the function of milk production. Evaluation of dairy cattle using production data, pedigrees and live animal evaluation. Particular emphasis will be placed on linear classification and selective mating. Oral interpretation of these evaluative criteria and formal reasoning presentations will be required. Evaluation of milk and milk products will be required as well. Field trips required. Two maximum completions. Lecture/Laboratory (A-F Only) Transfer: CSU

ANSC 228—DAIRY MANAGEMENT 3 Units
Recommended for Success: Satisfactory completion of ANSC 220 and 224 and AGEC 200.
Economics of dairying; milk production and marketing and their relationship to income; computing production costs; analyzing dairy enterprises; business planning; farm selection; management problems relating to feeding, labor, replacements, breeding, work simplification and recordkeeping. Term problem and field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 230—POULTRY SCIENCE 3 Units
A study of the principles and practices of commercial poultry production. Emphasis to be placed on poultry nutrition, reproduction, environmental management, health, marketing and recordkeeping to ensure scientifically-based management decisions and consumer product acceptance. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 232—AVIAN PRACTICES 3 Units
Practices in avian management including breeders, fayers, and layers; incubating, brooding and rearing of chicks. Processing and marketing of various avian products. Specific work with game birds, and non-commercial species of fowl. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

ANSC 233—TURKEY PRODUCTION AND MANAGEMENT 3 Units
Turkey industry in the area, state, and nation; brooding, growing and management of turkeys; breeds and their adaptation, feeding, housing, and equipment; management of breeding flock; disease prevention; recordkeeping and evaluation. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 234—POULTRY FEEDING 3 Units
Economics of poultry feeding. Composition of feeds, nutritional requirements, feed formulation for poultry; computer-assisted feed formulation, and proper feeding techniques. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 235—POULTRY DISEASES AND HOUSING 3 Units
Anatomy and physiology of poultry; diagnosis, treatment, prevention and control of disease; sanitation; types of housing and equipment; planning housing, and equipment needs; vaccination schedules. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 236—POULTRY BREEDING AND SELECTION 3 Units
Principles of poultry breeding, pedigrees, marketing, record analysis; culling and selection of poultry, judging, incubation, hatching and grading of chicks and selecting sources of chicks. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 237—POULTRY MANAGEMENT 3 Units
Recommended for Success: Satisfactory completion of ANSC 230, 232, 233, 234, 235, or 236. Economic aspects of poultry production; records and record analysis; efficiency factors affecting profit; marketing; poultry layout and budget; housing management; feeding. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ANSC 240—BEEF FITTING AND SHOWING 2 Units
Principles of selection, feeding, fitting, and presentation of beef animals for show. Field trips required. Three maximum completions. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU

ANSC 241—SHEEP FITTING AND SHOWING 2 Units
Principles of selection, feeding, fitting, and presentation of sheep for show. Three maximum completions. Field trips required. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU

ANSC 242—SWINE FITTING AND SHOWING 2 Units
Principles of selection, feeding, fitting, and presentation of swine for show. Field trips may be required. Three maximum completions. Lecture/Laboratory/Other. (A-F Only) Transfer: CSU

ANSC 243—HORSE FITTING AND SHOWING 2 Units
Principles of selection, feeding, fitting, and presentation of horses for show. Field trips may be required. Three maximum completions. Lecture/Other. (A-F Only) Transfer: CSU

ANSC 244—DAIRY FITTING & SHOWING 2 Units
Principles of selection, feeding, fitting and presentation of dairy animals for show. Field trips may be required. Three maximum completions. Lecture/Other. (A-F Only) Transfer: CSU

Continued 0
ANSC 250—VETERINARY PHYSIOLOGY, ANATOMY & TERMINOLOGY  3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Commonly used terminology and biological concepts used in veterinary medicine. Includes study of basic normal anatomy and physiology (in both large and small animals) in a body systems format, along with related vocabulary and spelling. Commonly used veterinary acronyms and abbreviations are woven throughout the course where relevant. Transfer: CSU

ANSC 251—VETERINARY PHARMACY PROCEDURES  2 Units
Recommended for Success: Satisfactory completion of ENGL 50
Includes discussion of veterinary pharmacology and common items dispensed with emphasis on proper labeling and dispensing instructions. Lecture/Laboratory. Field trips required. Transfer: CSU

ANSC 252—VETERINARY EQUIPMENT: OPERATION INSTRUMENTATION, AND SAFETY  3 Units
Recommended for Success: Satisfactory completion of ENGL 50
Customer service, medical communication skills, office organization, scheduling, emergency recognition and management, stress management, preventative health programs, and medical record-keeping. Field trips required. Lecture/Laboratory. Transfer: CSU

ANSC 253—VETERINARY LABORATORY PROCEDURES  1 Unit
Recommended for Success: Satisfactory completion of ENGL 50.
Introduction to manual and automated veterinary lab techniques and procedures, including work with blood, urine, fecal and skin samples. (A-F or CR/NC). One completion allowed. Lecture. Transfer: CSU

ANSC 254—VETERINARY MEDICAL OFFICE PROCEDURES  2 Units
Recommended for Success: Satisfactory completion of ENGL 50
This course covers customer service, medical communication skills, office organization, scheduling, emergency recognition and management, stress management, preventative health programs, and medical record-keeping. Lecture/Laboratory. Field trips required. (A-F Only). Transfer: CSU

ANSC 255—PREPARATION FOR SURGICAL AND DENTAL ASSISTANCE  3 Units
Recommended for Success: Satisfactory completion of ENGL 50
Preparation for surgery, surgery assistance, surgical and dental instruments and packs, anesthesia induction, monitory and anesthetic machine maintenance, anatomy of the mouth and dental arcade, dental prophylaxis and extractions. Field trips required. Lecture/Laboratory. Transfer: CSU

ANSC 256—VETERINARY ASSISTANCE AND NURSING: EMERGENCY PROCEDURES  1 Unit
Emphasis on emergency procedures, monitoring vital signs, taking steps to stabilize patients. Basic nutritional requirements for pets, species requirements, nutritional disorders, feeding methods. Basic animal behavior, detecting signs of stress, and identifying causes of behavioral problems. Field trips required. Lecture/Laboratory. Transfer: CSU

ANSC 257—VETERINARY ASSISTANCE AND NURSING: ANIMAL HANDLING  2 Units
Basic veterinary nursing procedures including animal restraint, administration of medication, catheterization, vaccination techniques, bathing, bandaging, and performing minor medical procedures. Field trips required. Lecture/Laboratory. Transfer: CSU

ANSC 308—RABBIT PRODUCTION  2 Units
Formerly listed as GE-AG 308.
Principles of rabbit production. Covers all aspects of the rabbit industry including uses for meat, fur, wool, laboratory, and show. Two maximum completions. Field trips may be required. Lecture/Other.

ANSC 316—FARM PROCESSING OF MEAT ANIMALS  2 Units
Economics of raising and processing your own animals. Safety factors and local and state regulations as they apply to processing live animals. Processing will include fowl, rabbit, sheep, swine, and beef. Slaughtering, cutting, wrapping, and curing will be covered for each of the above species. Field trips required. Lecture/Laboratory. (A-F Only)

ANSC 330—BROILER-FRYER PRODUCTION  1 Unit
Broiler production and management including incubation, hatching, brooding, growout feeding, and disease control; product processing and marketing. Field trips required. Lecture. (A-F Only)

ANSC 331—EGG PRODUCTION  1 Unit
Commercial egg layer management including incubation, hatching, brooding, growout, selection, feeding, and disease control; processing and marketing of eggs. Field trips required. Lecture. (A-F Only)

ANSC 355—ROPE HORSE TRAINING  3 Units
Introduction to techniques and skills used in the training of rope horses. Student provides own horse. Field trips required. Two maximum completions. Lecture/Laboratory. (A-F Only)

ANSC 358—PACKING ANIMALS - WALKING/RIDING  1½ Units
Selection, care, and use of pack animals and equipment. Topics will include planning safe packing trips and environmental concerns. Having a horse is not a requirement to take this class. Field trips may be required. Three maximum completions. Not offered every semester. Lecture. The college does not provide horses or transportation for horses for this class nor gate fees for any field trips. (A-F Only)

ANSC 375—ANIMAL HEALTH (LIVESTOCK)  1 Unit
Diseases and parasites of the San Joaquin Valley; management practices to prevent disease and parasites; state and federal regulatory services; prevention and treatment of common diseases in livestock. Three maximum completions. Field trips may be required. Lecture. (A-F Only)

ANSC 379—SMALL ANIMAL MEDICINE AND BEHAVIOR  2 Units
Formerly listed as ANSC 377 and ANSC 378.
Basic introductory course in normal animal behavior of dogs and cats. The diagnosis and treatment of some of the most common pet behavior problems. Includes history of diseases and parasites in the area; management techniques to prevent diseases and parasites; state and federal regulatory services. Lecture. (A-F Only).

ANSC 390—CATTLE RANCH SKILLS  2 Units
Basic skills needed for handling and caring for cattle including doctoring, processing and moving cattle. Field trips required. Three maximum completions. Lecture/Laboratory. (A-F Only)

ANTHR (Anthropology)

ANTHR 101—PHYSICAL ANTHROPOLOGY  3 Units
Introduction to human evolution. The evidence for human biological and behavioral adaptations is examined. Issues and topics will include the principles of genetics and evolution, human variation, comparative primate anatomy/behavior and an assessment of the human fossil record. Field trips may be required. Lecture. Transfer: CSU, UC. (CAN ANTH 2) (CC ANTHR 1) General Education: (MJC-GE: A) (CSU-GE: B2 OR D1) (IGETC: SB)

Continued
ANTHR 102—CULTURAL ANTHROPOLOGY 3 Units
Introduction to the methods, theories and insights of cultural anthropology and the application of these to life in a multicultural society. Topics include, but are not limited to: the nature of culture, cross-cultural comparative patterns in the areas of subsistence patterns, economics, religion, kinship, gender, language, political organization. Recommended for people who travel internationally. Field trips may be required. Lecture. Transfer: CSU, UC (CAN ANTH 4) (CC ANTHR 2) General Education: (MJC-GE: B) (CSU-GE: D1) (IGETC: 4)

ANTHR 105—PHYSICAL ANTHROPOLOGY LABORATORY 1 Unit
Prerequisite: Satisfactory completion of ANTHR 101 or concurrent enrollment. Laboratory investigation of methods and techniques of human evolution and variation, including use of the scientific method, anthropometrics, and an analysis of the functional morphology of primates. Lines of evidence examined will include the study of population genetics, comparative anatomy and behavior of primates, forensic anthropology, human fossils and their reconstruction. Field trips may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

ANTHR 130—ARCHAEOLOGICAL AND CULTURAL PREHISTORY 3 Units
An introduction to anthropological archaeology including concepts, theories, and methods employed by archaeologists in reconstructing past life ways of humans. Topics include history and interdisciplinary nature of archaeological education; data collection, analysis and interpretation with a discussion of applicable data and models; cultural resource management; selected cultural sequences. Field trips may be required. Lecture. Transfer: CSU, UC (CAN ANTH 6) General Education: (CSU-GE: D1) (IGETC: 4)

ANTHR 140—MAGIC, WITCHCRAFT & RELIGION 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
A cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various societies of Africa, Asia, aboriginal Australia, Oceania, South America, native North America and elsewhere. Emphasis on analyzing beliefs and rituals within their cultural contexts, and on broad comparison, to derive insight into the place of belief and ritual in human life. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D1)

ANTHR 150—NATIVE PEOPLES OF NORTH AMERICA 3 Units
Introductory survey of the origins and varied adaptations made by the aboriginal cultures north of Mexico. Protohistoric and historic periods are emphasized. Special consideration of the aboriginal cultures of California. Emphasis on the techniques of data collection, analysis and interpretation. Field trips may be required. Lecture. Not offered every semester. Transfer: CSU, UC (CC ANTHR 15) General Education: (CSU-GE: D1) (IGETC: 4)

ARCH 106—FAMILIES IN SOUTHEAST ASIAN CULTURES 1 Unit
Also offered as FAML 160.
A survey of basic value concepts of Southeast Asian cultures; their origin, and resulting impact on family structure, child rearing, marriage practices, religion, folk medicine and education. Overview of the interplay between Southeast Asian social and cultural values and their counterparts in American society. Continuity and change in the Southeast Asian family. Lecture. (Spring) Transfer: CSU

ARCH 161—FAMILIES IN LATIN AMERICAN CULTURES 1 Unit
Also offered as FAML 161.
A survey of basic value concepts of Latin American cultures; their origin, and resulting impact on family structure, child rearing, marriage practices, religion, folk medicine and education. Overview of the interplay between Latin American social and cultural values and their counterparts in American society. Continuity and change in the Latin American family. Lecture. (Fall) Transfer: CSU

ARCH 106—MATERIALS OF CONSTRUCTION 2 Units
Recommended for Success: Concurrent enrollment in ARCH 107
Use and application of construction processes and materials pertaining to architecture. Field trips may be required. Lecture. Materials fee may be required. (Fall) Guidance. Transfer: CSU

ARCH 107—MATERIALS OF CONSTRUCTION LABORATORY 1 Unit
Recommended for Success: Concurrent enrollment in or completion of ARCH 106 or ENGT 250.
Observation and testing of mechanical properties of steel, concrete, and wood; laboratory and field exercises with basic construction methods using wood and concrete; field trips to construction sites, materials manufacturing and processing plants. Laboratory. Materials fee may be required. (Spring) Transfer: CSU

ARCH 117—HISTORY OF ARCHITECTURE 1
The development of architecture, its philosophies and conditions from Prehistoric through Egyptian, Greek, Roman, Early Christian, Medieval, Romanesque Gothic and Pre-Columbian. Lecture. Materials fee may be required. (Fall) Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)
ARCH 118—HISTORY OF ARCHITECTURE 2  3 Units
The development of architecture, its philosophies and conditions from the Renaissance through the Industrial Revolution, the Modern Movement and including the Twentieth Century. ARCH 117 is not a prerequisite. Lecture. Materials fee may be required. (Spring)
Transfer: CSU, UC. General Education: (MJC :GE: C1) (IGETC: 3A)

ARCH 121—BEGINNING GRAPHICS AND DESIGN 1  4 Units
Introduction to the graphic and computer production of architectural drawings pertaining to freehand, orthogonal, axonometric and perspective drawings. Basic principles and concepts of two- and three-dimensional design. Field trips may be required. Lecture/Laboratory. Materials fee may be required. (Fall), Transfer: CSU, UC.

ARCH 122—BEGINNING GRAPHICS AND DESIGN 2  4 Units
Prerequisite: Satisfactory completion of ARCH 121
Continuation of ARCH 121. Extended development of the content in ARCH 121 plus the introduction of the graphic methods and skills to communicate and represent conceptual ideas, analysis, and design concepts. Field trips may be required. Lecture/Laboratory. Materials fee may be required. (Spring) Transfer: CSU, UC

ARCH 131—ARCHITECTURAL DRAFTING 1  4 Units
Recommended for Success: Previous drafting experience.
Techniques and skills of drafting; introduction to building codes and construction methods, and the construction documents used to communicate the light-wood frame building process. Introduction to computer-assisted drafting in architectural applications. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU

ARCH 132—ARCHITECTURAL DRAFTING 2  3 Units
Prerequisite: Satisfactory completion of ARCH 131
Continuation of ARCH 131. Further development of office and drafting practices, contract document preparation, and construction processes with emphasis on heavy timber construction. Introduction to computer-assisted drafting in more complex architectural applications. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU

ARCH 152—ARCHITECTURAL DESIGN 1  5 Units
Prerequisites: Satisfactory completion of ARCH 122
Fundamentals of design concepts focusing on architectural form, function, space, and structure. Application of problem solving methods as applied to the relationship of man, building, and environmental concerns. Field trips required. Lecture/Laboratory. Materials fee may be required. (Fall) Transfer: CSU

ARCH 153—ARCHITECTURAL DESIGN 2  5 Units
Prerequisite: Satisfactory completion of ARCH 152
Continuation of ARCH 152. Explorations in architectural design within an environmental context. Consideration of projects dealing with buildings, site, climate, and structural issues and their interaction with aesthetic and functional concerns. Field trips required. Lecture/Laboratory. Materials fee may be required. (Spring) Transfer: CSU

ARCH 331—BASIC ARCHITECTURAL DRAFTING 1  2 Units
Introduction to architectural drafting and construction techniques for the nonprofessional with major emphasis on residential drafting and design. Topics include: a basic understanding of drafting skills, architectural nomenclature, design presentations, building materials, and a simple understanding of structure. Lecture/Laboratory.

ART 103—APPLIED COMPUTER GRAPHICS  3 Units
Recommended for Success: Satisfactory completion of ART 102
Also offered as CMPGR 213.
Formerly listed as Microcomputer Graphics.
Concepts and techniques in computer graphics as related to fine and applied art applications. Field trips required. Materials fee required. Lecture/Laboratory. (MJC Activities) Transfer: CSU

ART 108—CERAMICS 1  3 Units
Techniques of elementary clay construction and ornamentation; introduction to throwing techniques. Trustee receipt required to purchase course materials as needed. Field trips may be required. Materials fee required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CAN ART 6) (CC ART 31)

ART 109—CERAMICS 2  3 Units
Prerequisite: Satisfactory completion of ART 108
Pottery construction, emphasis on throwing and design. Field trips required. Trustee receipt required to purchase course materials as needed. Field trips may be required. Materials fee required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 110—CERAMICS 3  3 Units
Prerequisite: Satisfactory completion of ART 109
Throwing techniques and surface decoration; experiments in clay bodies, glazes, and stacking of kiln. Field trips required. Trustee receipt required to purchase course materials as needed. Field trips may be required. Materials fee required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 119—COMPUTER GRAPHICS PORTFOLIO REVIEW  1 Unit
Prerequisite: This course follows the completed courses of the Computer Graphics major/certificate core requirements.
Also offered as CMPGR 219.
Prepares the student majoring or receiving a certificate in Computer Graphics with the necessary visual and business skills to develop a portfolio; emphasizes the creative and applied business needs for individuals entering the professional field of Computer Graphics. Field trips required. Lecture/Laboratory. (A-F Only) (MJC Activities) Transfer: CSU

ART 120—BASIC DRAWING 1  3 Units
An introductory course in techniques used in representing form, light and shadow, texture, perspective, composition, and expression using various drawing media. Field trips may be required. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CAN ART 8, CSU, UC) (CC ART 1) General Education: (CSU-GE: C1)

ART 121—BASIC DRAWING 2  3 Units
Prerequisite: Satisfactory completion of ART 120
Further exploration of various drawing materials and techniques. Emphasis on composition; development of personal approach to drawing. Field trips may be required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 123—FIGURE DRAWING  3 Units
Prerequisite: Satisfactory completion of ART 120
Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Two maximum completions. Lecture/Laboratory. Field trips required. (MJC Activities) Transfer: CSU, UC (CAN ART 24) (CC ART 9A)

ART 124—COLOR AND DESIGN 1  3 Units
Recommended for Success: Satisfactory completion of ART 120 or previous drawing experience
Design principles and color theory. Problems in two-dimensional form using various media. Field trips may be required. One completion allowed. Lecture/ Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CAN ART 14) (CC ART 2) General Education: (CSU-GE: C1)
ART 125—COLOR AND DESIGN 2 3 Units
Prerequisite: Satisfactory completion of ART 124
Expressions in design. Utilization of the elements and principles of design in two and three-dimensional form using various materials and techniques. Field trips required. Lecture/Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC (CAN ART 16)

ART 127—ALTERNATIVE DRAWING METHODS 3 Units
Prerequisite: Satisfactory completion of ART 120
Theory and practice of nontraditional drawing material and techniques. Emphasis on contemporary approaches to drawing including mixed media, collage, nontraditional surfaces, and working in series. Further exploration of the compositional issues addressed in the Basic Drawing series.

ART 140—SCULPTURE 1 3 Units
Study of form, structure and three-dimensional design as related to sculpture using various materials such as stone, plaster, clay, plastics and metals. Field trips may be required. Trustee receipt required to purchase course materials as needed. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CAN ART 12)
Transfer: (CSU-GE: C1)

ART 141—SCULPTURE 2 3 Units
Prerequisite: Satisfactory completion of ART 140
Continuation of ART 140; in-depth realization of sculpture in both concept and craftsmanship. Field trips may be required. Trustee receipt required to purchase course materials as needed. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CSU-GE: C1)

ART 142—SCULPTURE 3 3 Units
Prerequisite: Satisfactory completion of ART 141
Continuation of ART 141 with an emphasis on experimentation and development of personal expression applied to sculptural problems. Field trips may be required. One maximum completions. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 144—WATERCOLOR PAINTING 1 3 Units
Prerequisite: Satisfactory completion of ART 120 or ART 124
Theory and practice of transparent watercolor painting using still life and landscape subject matter. Traditional and experimental techniques will be used. Field trips may be required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CC ART 23A)

ART 145—WATERCOLOR PAINTING 2 3 Units
Prerequisite: Satisfactory completion of ART 144
A continuation of the concepts and skills developed in ART 144. Emphasis is placed upon experimentation and on the development of a personal painting style. Field trips may be required. One completion allowed. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CC ART 23B)

ART 146—MIXED MEDIA PAINTING 3 Units
Prerequisite: Satisfactory completion of ART 120 or ART 124
Theory and practice of acrylic or oil painting with an emphasis on experimental techniques and different mixed mediums. Lecture/Laboratory. Field trips may be required. Two completions allowed. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 147—PAINTING 1 (IN ACRYLIC) 3 Units
Prerequisite: Satisfactory completion of ART 120 or ART 124
Introduction to acrylic painting, basic techniques and stylistic approaches. Emphasis on developing form through color. One completion allowed. Field trips may be required. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

ART 148—PAINTING 1 (IN OIL) 3 Units
Formerly listed as "ART 148 - Oil Painting 1"  
Prerequisite: Satisfactory completion of ART 120 or ART 124
Introduction to oil painting; basic techniques and stylistic approaches. Emphasis on developing form through color. Field trips may be required. Lecture/Laboratory. Maximum one completion. (MJC Activities) (A-F or CR/NC) Transfer: CSU, UC (CAN ART 10) (CC ART 21A)

ART 149—PAINTING 2 3 Units
Formerly listed as "ART 149 - Oil Painting 2"  
Prerequisite: Satisfactory completion of ART 147 or 148
Continued work in oil and acrylic painting; basic techniques and stylistic approaches. Emphasis on developing form through color. Field trips may be required. Maximum three completions. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC (CC ART 21B)

ART 150—GALLERY OPERATION AND MANAGEMENT 3 Units
Recommended for Success: Concurrent enrollment in ART 160, 164, or 165
Introduction to the various aspects of operation and management of an art gallery: exhibition organization, hanging, publicity and jurying. Field trips required. Two maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU

ART 160—APPRECIATION OF ART 3 Units
Introductory art appreciation for the general student. Illustrated lectures in painting, sculpture, architecture and design. Field trips required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 161—AMERICAN ART 3 Units
Analysis of the arts through the study of painting, sculpture, architecture, and history of North America from pre-historic times to the present. Emphasis will be on the arts of the United States. Field trips required. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 162—HISTORY OF RENAISSANCE ART 3 Units
Analysis of the European 14th-16th century drawing, painting, sculpture, and architecture, with an emphasis on the Italian High Renaissance masters. Field trips required. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 163—HISTORY OF MODERN ART 3 Units
Analysis of the arts through the study of painting, sculpture, architecture, and the history of Europe and the Americas from c. 1870 to the present. Field trips required. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 164—HISTORY OF ART 1 3 Units
Analysis of great art epochs through study of paintings, sculpture, architecture, and history from prehistoric times to end of the Middle Ages. Field trips may be required. One completion allowed. Lecture. (A-F or CR/NC) Transfer: CSU, UC. (CAN ART 2, CAN ART SEQ A) (CC ART 11) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 165—HISTORY OF ART 2 3 Units
Continuation of study of painting, sculpture, and architecture from Renaissance to the present. Field trips may be required. One completion allowed. Lecture. (A-F or CR/NC) Transfer: CSU, UC. (CAN ART 4, CAN ART SEQ A) (CC ART 12) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 168—SURVEY OF PHOTOGRAPHY 3 Units
Recommended for Success: Satisfactory completion of ART 170 or 181.
A survey course dealing with past and present photographic technique and imagery. Field trips required. Lecture. (Spring) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

ART 169—HISTORY OF NON-WESTERN ART 3 Units
Analysis of the art forms of Africa, Oceania, Asia and the Americas in their relation to their cultural history from prehistoric times to the present. Field trips required. Lecture. Not offered every semester. Transfer: CSU, UC (CC ART 13) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

Continued >
ART 170—BASIC PHOTOGRAPHY  3 Units  
Introduction to the art and craft of photography: cameras, films, papers, basic black and white darkroom operations, composition, print quality, and photographic seeing. Field trips required. Project card use available. Lecture/Laboratory. Not offered every semester. (MJC Activities) **Transfer:** (CSU, UC) (CC ART 40) (CAN ART 18)  
**General Education:** (CSU-GE: C1)  

ART 172—INTERMEDIATE PHOTOGRAPHY  3 Units  
Prerequisite: Satisfactory completion of ART 170 or 182. 
Refinement of basic craft, vision, and aesthetics as they apply to black and white photography. Continued emphasis on visual literacy and personalized seeing. Field trips required. Project card use available. Lecture/Laboratory. **Transfer:** CSU, UC  

ART 173—DIGITAL IMAGING FOR PHOTOGRAPHERS  3 Units  
**Recommended for Success:** Satisfactory completion of ART 170 
Introductory course in digital imaging and electronic desktop photography. Applications related to the use of fine art photography and publication will be emphasized. The class includes lectures, discussions, critiques, computer laboratory work. Field trips required. Three maximum completions. Material fee required. Lecture/Laboratory. (MJC Activities) **Transfer:** CSU, UC  

ART 175—COLOR PHOTOGRAPHY  3 Units  
Prerequisite: Satisfactory completion of ART 172 or 186. Introduction to color photography. Transparency and negative materials; printing processes; print presentation and aesthetics. Field trips required. Lecture/Laboratory (A-F Only) (Fall) (MJC Activities) **Transfer:** CSU  

ART 178B,C,D—ADVANCED PHOTOGRAPHY  2,3,4 Units  
Prerequisite: Satisfactory completion of ART 172 or 186  
**Recommended for Success:** Satisfactory completion of ART 168 Advanced exploration in the visual and technical areas of either black and white, color, or non-silver photography. Students will design a project and produce a portfolio of finished work. Field trips are required. Materials fee required. Completions to 8 units maximum. Other - combination seminar, and hours arranged. **Transfer:** CSU  

ART 181—BASIC PHOTOGRAPHY 1  1½ Units  
Introduction to the art and craft of photography - cameras, films, papers, basic black and white darkroom operations, composition, print quality, and photographic seeing. ART 181 and ART 182 are the two semester equivalent of ART 170 but do not fulfill the CSU-GE requirement. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. (MJC Activities) **Transfer:** CSU, UC  

ART 182—BASIC PHOTOGRAPHY 2  1½ Units  
Prerequisite: Satisfactory completion of ART 181 
Introduction to the art and craft of photography - cameras, films, papers, basic black and white darkroom operations, composition, print quality, and photographic seeing. ART 181 and ART 182 are the two-semester equivalent of ART 170, but do not fulfill the CSU-GE requirement. Field trips required. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. (MJC Activities) **Transfer:** CSU, UC (CC ART 40)  

ART 185—INTERMEDIATE PHOTOGRAPHY 1  1½ Units  
Prerequisite: Satisfactory completion of ART 170 or 182. 
Refinement of basic craft, vision, and aesthetics as they apply to black and white photography. Continued emphasis on visual literacy and personalized seeing. ART 185 and ART 186 are the two semester equivalent of ART 172. Field trips required. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. **Transfer:** CSU, UC  

ART 186—INTERMEDIATE PHOTOGRAPHY 2  1½ Units  
Prerequisite: Satisfactory completion of ART 185 
Refinement of basic craft, vision and aesthetics as they apply to black and white photography. Continued emphasis on visual literacy and personalized seeing. ART 185 and ART 186 are the two semester equivalent of ART 172. Field trips required. Trustee receipt required to purchase course materials as needed. Lecture/Laboratory. **Transfer:** CSU, UC  

ART 189A,B—PHOTO LABORATORY TECHNOLOGY 1  1.2 Units  
**Recommended for Success:** Satisfactory completion of ART 170 
Maintenance and operation of a photographic lab facility; equipment, chemistry, scheduling and other related activities. Field trips required. Four maximum completions. Laboratory. (MJC Activities) **Transfer:** CSU  

ART 191—PHOTO LABORATORY TECHNOLOGY 2  1 Unit  
**Recommended for Success:** Satisfactory completion of ART 170 
Maintenance and operation of a photographic lab facility; equipment, chemistry, scheduling and other related activities. Field trips required. Four maximum completions. Laboratory. (MJC Activities) **Transfer:** CSU  

ART 197—FIELD STUDIES IN PHOTOGRAPHY  1 Unit  
Preparation of and participation in field studies of various thematic and technical approaches to photography as a fine art. Course will include travel to specific geographic regions to influence and augment the study of particular styles of photography. Geographic areas to be studied and visited will vary from one semester to the next. Field trips required. Four maximum completions. Lecture/Laboratory. Materials fee may be required. Cost of each trip varies. **Transfer:** CSU  

**ASTRO (Astronomy)**  
ASTRO 55—EXPLORING THE NIGHT SKY  1 Unit  
Audio-tutorial program in constellation identification and naked-eye astronomy. Self-paced study of nighttime sky with cassette tapes and visual aids. Field trips required. Lecture. Materials fee may be required. (Evening)  

ASTRO 141—INTRODUCTION TO ASTROPHYSICS  3 Units  
Prerequisite: Satisfactory completion of PHYS 142 or PHYS 101  
**Recommended for Success:** Satisfactory completion of MATH 122 or qualification by MJC assessment process. 
Designed for students with a mathematical and/or scientific background. Study of planetary astronomy, stars and stellar evolution, gravity and cosmology, with emphasis on physical principles. Field trips required. Lecture. (A-F or CR/NC) One completion allowed. **Transfer:** CSU, UC. **General Education:** (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)  

ASTRO 151—INTRODUCTION TO ASTRONOMY LABORATORY  1 Unit  
Concurrent enrollment or previous completion of ASTRO 141 or 160. 
**Recommended for Success:** Satisfactory completion of MATH 70. 
Techniques in experimental astronomy. Determination of the properties of the sun, planets, stars and galaxies. Use of the college and district telescopes may be incorporated into experiments. Field trips required. Laboratory. Materials fee may be required. Not offered every semester. **Transfer:** CSU, UC. **General Education:** (CSU-GE: B1) (IGETC: 5A)  

ASTRO 160—INTRODUCTION TO MODERN ASTRONOMY  3 Units  
Introductory survey course in astronomy. Emphasis on current studies of solar system, the birth and death of stars and cosmology. Field trips may be required. Lecture. Materials fee may be required. **Transfer:** CSU, UC. **General Education:** (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)  

**AUBDY (Autobody)**  
AUBDY 115—INTRODUCTION TO TECHNICAL INDUSTRIES  1 Unit  
**Also offered as:** AUTEC 115 and INTEC 115. 
Introduction to educational and technical employment opportunities. Includes an understanding of curriculum requirements that pertain to educational goals as they relate to technical majors. Assists students in setting goals and developing skills necessary for life-long success in obtaining, maintaining, and advancing in technical careers. Current events that impact technical industries and society will be discussed. History and employment opportunities in technical industries. Techniques and applications of sound shop agency practices and hazardous waste management. Development of an educational plan and presentations by MJC counselors. Field trips may be required. Materials fee required. Lecture/Other: (A-F Only) (MJC Guidance) **Transfer:** CSU
AUBDY 301—AUTOMOTIVE COLLISION REPAIR 1 5 Units
Study of body sheet metal and structural strength; body design and sheet metal working characteristics. Training in welding, brazing, metal bumping, metal finishing and plastic filling; heat shrinking; shop safety. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

AUBDY 302—AUTOMOTIVE COLLISION REPAIR 2 5 Units
Prerequisite: Satisfactory completion of AUBDY 301
Body repair techniques. Progressive training in the use of hydraulic portopower equipment, plastic repairs, and corrosion protection. Installation of fenders, hoods, doors and alignment procedures. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

AUBDY 303—AUTOMOTIVE COLLISION REPAIR 3 4 Units
Prerequisite: Satisfactory completion of AUBDY 302
Training in automobile body measurement and alignment; replacement of welded body parts; methods of sectioning; types of glass and glass operating mechanisms; upholstery, trim and moldings. Techniques and procedures in MIG Welding and Mild HSS Steel. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

AUBDY 304—AUTOMOTIVE COLLISION REPAIR 4 4 Units
Prerequisite: Satisfactory completion of AUBDY 303
Specialized training in major body repairs, rebuilding, unitized body alignment and fundamentals of frame repair; damage estimating and shop management. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

AUBDY 321—AUTOMOTIVE SPRAY REFINISHING 1 2 Units
Introduction to automobile spray painting. Study of materials, supplies and equipment. Experience in feather-edging and application of base coats; spray techniques in spot blending and panel refinishing with a base coat and clear coat. Field trips may be required. Lecture/Laboratory/Other. Materials fee required. (A-F Only)

AUBDY 322—AUTOMOTIVE SPRAY REFINISHING 2 3 Units
Prerequisite: Satisfactory completion of AUBDY 321
Continuation of AUBDY 321 with further instruction in complete refinishing with single stage enamels, base coat/clear coat enamels, and estimate writing. Field trips may be required. Lecture/Laboratory/Other. Materials fee required. (A-F Only)

AUBDY 351—AUTO BODY COLLISION REPAIR 1 2 Units
For beginning students in auto body collision work. Theory and study of the body sheet metal and structure. Theory and manipulative skills in oxy-acetylene welding, sheet metal strengthening, plastic filling and shrinking. Lecture/Laboratory. Materials fee required. (A-F Only)

AUBDY 352—AUTO BODY COLLISION REPAIR 2 2 Units
Prerequisite: Satisfactory completion of AUBDY 351
Continued development of skills competence in metal strengthening through individual project work. Student must supply own project, and it must meet instructor’s approval. Study of theory, equipment and manipulative techniques in MIG welding and spray refinishing, up to and including surface preparation and priming. (No complete or spot color repairs are allowed in evening classes without instructor’s approval). Lecture/Laboratory. Materials fee required. (A-F Only)

AUTEC 241—COMPACT DIESEL ENGINES 2 Units
Recommended for Success: Satisfactory completion of AUTEC/AGM 389 or AUTEC 390 or equivalent
Also offered as AGM 241.
This course explores the design, operation, and proper maintenance of the latest compact diesel engines approved by the California Air Resources Board (CARB) for operation and sales in California after 1997. Topics include fuel characteristics, current emissions testing and standards, related engine systems, operation and trouble-shooting. Problem-solving component failures and disassembly/assembly of representative engine will be covered. (Engine Equipment Training Council Association certification approved course.) Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only). Transfer: CSU

AUTEC 289—PRINCIPLES OF POWER MECHANICS/ SMALL ENGINES 3 Units
Formerly listed as: AGM/AUTEC 389
Also offered as AGM 289.
Introduction to the operation, construction, maintenance, repair and adjustments of two and four-stroke engines. Designed for persons without prior experience in engine repair. Experienced technicians will also benefit. This course is not repeatable. Field trips may be required. Lecture/Laboratory. (A-F Only). Transfer: CSU

AUTEC 311—BASIC AUTOMOTIVE SYSTEMS 3 Units
Basic repair practices of automotive systems to include cooling, lubrication, fuel, exhaust, and electrical. Proper selection and use of automotive shop manuals, charts, service publications, tools, measuring devices, etc. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

AUTEC 315—ENGINE REBUILDING 4 Units
Prerequisite: Satisfactory completion of AUTEC 311
Automotive engine rebuilding. Use of automotive type of machine shop equipment. Engine disassembly, cleaning, inspection, measuring, and reassembly procedures. Lecture/Laboratory. Materials fee required. Not offered every semester. (A-F Only)

AUTEC 317—AUTOMOTIVE AIR CONDITIONING 3 Units
Concurrent enrollment in or previous satisfactory completion of: AUTEC 311
The principles of automotive air conditioning and the components used in air conditioning. Factory installed air conditioning units and add-on type units. Charging, leak detection, component replacement and repair procedures. Lecture/Laboratory. Materials fee required. (A-F Only)

AUTEC 319—AUTOMOTIVE FUEL SYSTEMS 3 Units
Prerequisite: Satisfactory completion of AUTEC 311, AUTEC 368
Provides the automotive technician with a comprehensive, up-to-date background in automotive fuel systems overhaul and testing of carburetors, fuel injection systems, pumps and relays. Test equipment and techniques used will assure that engine operation and emission levels are within state standards. Field trips may be required. Lecture/Laboratory. Materials fee required. Not offered every semester. (A-F Only).

AUTEC 320—ENGINE PERFORMANCE 4 Units
Prerequisites: Satisfactory completion of AUTEC 311, AUTEC 319, AUTEC 368, and AUTEC 369.
Automotive emission control: test equipment and techniques used will assure that engine operation, performance and emission levels are within C.A.R.B. standards. Lecture/Laboratory. Materials fee required. Field trips may be required. (A-F Only)

AUTEC 321—BRAKING SYSTEMS 3 Units
Prerequisite: Satisfactory completion of AUTEC 311.
Principles of design and operation, techniques for repair, diagnosis and replacement of 4-wheel braking systems. Lecture/Laboratory. Materials fee required. Field trips may be required. (A-F Only)

AUTEC 322—STEERING, SUSPENSION, AND ALIGNMENT 3 Units
Prerequisite: Satisfactory completion of AUTEC 311.
Principles of design and operation, techniques for diagnosis and repair of steering and suspension systems. Includes component replacement and alignment theory and procedures using two and four-wheel alignment equipment. Lecture/Laboratory. Materials fee required. Field trips may be required. (A-F Only)

AUBDY - AUTEC

AUBDY 115 — INTRODUCTION TO TECHNICAL INDUSTRIES 1 Unit
Also offered as AUBDY 115 and INTEC 115.
Introduction to educational and technical employment opportunities. Includes an understanding of curriculum requirements that pertain to educational goals as they relate to technical majors. Assists students in setting goals and developing skills necessary for life-long success in obtaining, maintaining, and advancing in technical careers. Current events that impact technical industries and society will be discussed. History and employment opportunities in technical industries. Techniques and applications of sound shop/agency practices and hazardous waste management. Development of an educational plan and presentations by MJC counselors. Field trips may be required. Materials fee required.Lecture/Other. (A-F Only). (MJC Guidance) Transfer: CSU

AUBDY - AUTEC

COURSES OFFERED AT MJC
AUTECH - BIO

AUTECH 322—AUTOMATIC TRANSMISSION AND TRANSLATES 4 Units
Prerequisite: Satisfactory completion of AUTECH 311.
Construction, operation and diagnosis of automatic transmissions and transaxles to include service diagnosis and overhaul. Lecture/Laboratory. Materials fee required. Field trips may be required. (A-F Only)

AUTECH 324—MANUAL TRANSMISSION AND DRIVE AXLES 3 Units
Prerequisite: Satisfactory completion of AUTECH 311.
Construction, operation and diagnosis of manual transmissions and axles, to include service and overhaul. Theory as well as “hands-on” training with clutch systems and drive axle operation and service. Lecture/Laboratory. Materials fee required. Field trips may be required. (A-F Only)

AUTECH 368—AUTOMOTIVE ELECTRICITY/ ELECTRONICS SYSTEMS 1 3 Units
Prerequisite: Satisfactory completion of AUTECH 311.
Preparation for ASE (Automotive Service Excellence) A6 and A8 exams: Ohm’s Law, starting and charging systems, batteries, alternators, and starters. Principles of operation, testing, adjusting and rebuilding procedures. AC and DC charging systems. Mechanical and electric voltage control. Lecture/Laboratory/Other. Materials fee required. (A-F Only)

AUTECH 369—AUTOMOTIVE ELECTRICITY/ ELECTRONICS SYSTEMS 2 3 Units
Prerequisite: Satisfactory completion of AUTECH 311 and AUTECH 368.
Prepares student for ASE (Automotive Service Excellence) A6 and A8 exams. Fundamentals of automotive electronics and electrical components including ignition, computers, light and horn circuits, indicating devices, electrical accessories, and computer-controlled devices. Laboratory emphasis on testing and servicing electrical equipment. Lecture/Laboratory/Other. Materials fee required. (A-F Only)

AUTECH 373—97 B.A.R. CLEAN AIR COURSE 5 Units
Prerequisites: Satisfactory completion of AUTECH 311 OR as outlined by C.A.R.B. specifications.
Provides the experienced automotive mechanic with comprehensive, up-to-date background in auto emission control. Modern test equipment and techniques will assure that engine operation and emission levels are within manufacturers’ and California Air Resources Board (C.A.R.B.) specifications. Prepares the student to take the California Bureau of Automotive Repair (B.A.R.) Smog Check Mechanic Qualification Examination. B.A.R. requires a minimum of 90% attendance and 70% (C) grade for completion. Two maximum completions, Lecture/Laboratory. Materials fee required. Not offered every semester.

BIO 101—BIOLOGICAL PRINCIPLES 5 Units
Prerequisite: Satisfactory completion of (CHEM 142, 143, or 101) and eligibility for MATH 101 or higher.
Study of general principles of biology in relationship to the process of all living organisms. Topics include an introduction to the nature of science, reproduction, development, evolution, energetics, molecular biology, genetics, cellular structure, homeostatic mechanisms, ecology, and taxonomy. Core course intended for biology and biology-related majors. Lecture/Laboratory. Field trips may be required. Transfer: CSU, UC (CAN BIOL 2, BIOL SEQ A; CC BIOL 2) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

BIO 111—GENERAL BIOLOGY 4 Units
Introduction to principles of life, including reproduction, heredity, development, evolution; historical development of biology; molecular biology and ecology. Not open to students who have completed BIO 101. Not a substitute for BIO 101. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CC BIOL 17) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

BIO 115—GENETICS, EVOLUTION, AND SOCIETY 3 Units

BIO 128—THE SIERRA NEVADA 3 Units
A study of the Sierra Nevada mountain range: the people, physical features, fungi, plants and animals. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B2)

BIO 130—INTRODUCTION TO MARINE VERTEBRATES 3 Units
Recommended for Success: Satisfactory completion of a college-level biology course.
Groups of vertebrates adapted to marine environment; structural, physiological, and behavioral modifications making adaptation possible; species within those groups common to Pacific coastline. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: A)

BIO 130L—INTRODUCTION TO MARINE VERTEBRATES LABORATORY 1 Unit
Prerequisite: Satisfactory completion of BIO 130 or concurrent enrollment.
In depth study of selected topics from BIO 130 through the use of specimens, slides, laboratory exercises and field trips. Laboratory. Field trips required. Transfer: CSU, UC General Education: (MJC-GE: A)

BIO 140—INTRODUCTION TO MARINE BIOLOGY 4 Units
Introduction to the natural history of plants and animals of the temperate and tropical marine environment including rocky shores, mud flat, sandy beach, salt marsh, coral reef, mangal forest, open ocean, deep ocean, bay/estuary and Sacramento-San Joaquin Delta communities. Arctic and Antarctic marine ecosystems will also be introduced. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

BIO 145—INTRODUCTION TO FRESHWATER BIOLOGY 4 Units
Common organisms of the freshwater environment. Basic principles of energy flow and acquisition, nutrient cycling, population dynamics, community structure, and species interaction. Field trips required. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

BIO 151/151A,B,C—BIOLOGY FIELD STUDIES %,1,2,3 Units
Prerequisite: Previous satisfactory completion or concurrent enrollment in any college level biology, zoology or botany course.
Field trips to representative and unique ecosystems. Emphasis on life histories, adaptations and biological interactions of organisms within the ecosystem studied. Field experiences will include sampling methods, preparation of field notes and field identification of species characteristic of the ecosystem. Field trips are required. Lecture/Laboratory. Four maximum completions in any combination not to exceed 6 units. Materials fee required. Not offered every semester Transfer: CSU
BIO 180/180A,B—SPECIAL PROJECTS 1/2,1,2 Units
IN BIOLOGY
Prerequisite: Concurrent enrollment in a college-level biology course.
Individual study, research, or project in the field of biology. Field trips may be required.
Four maximum completions not to exceed 2 units in any combination of this course format. Lecture/Laboratory arranged. Materials fee may be required. (A-F or CR/NC)
Transfer: CSU

BIO 264—FOUNDATIONS IN LABORATORY TECHNIQUES 3 Units
Corequisite: Concurrent Enrollment in BIO 101
Basic laboratory skills for entry-level lab technicians in industrial or research oriented labs requiring a background in chemistry. Topics include lab safety, lab tools and techniques, the scientific method, hazardous materials, basic microbiology, and data analysis. Note: course co-developed by MJC and 14 industrial lab sites in the Central Valley. One completion allowed. Field trips required. Lecture/Laboratory. (A-F Only)
Transfer: CSU

BIO 265—BEGINNING MOLECULAR BIOLOGY 1 Unit
TECHNIQUES
Recommended for Success: Previous course in biology or chemistry; instructor recommendation for high school students.
A short course designed to introduce basic laboratory techniques associated with molecular biology. Topics covered would include, but are not limited to, use of specific instrumentation associated with molecular biology, gel electrophoresis, bacterial growth curves, generation of standard curves, principles of transformation and preparation of chemical solutions and media. Field trips may be required. Lecture/Laboratory. Materials fee required. (CR/NC Only)
Transfer: CSU

BIO 266—ADVANCED MOLECULAR BIOLOGY 1 Unit
TECHNIQUES
Recommended for Success: Previous course in biology or chemistry; instructor recommendation for high school students.
A short course designed to explore a variety of molecular biology techniques involving both DNA and protein analysis. The specific topics and procedures will vary according to the class; examples of molecular techniques include, but are not limited to, gel electrophoresis, PCR, use of restriction enzymes, bacterial transformation followed by a mini-prep plasmid extraction, blotting techniques and protein separation techniques. Field trips may be required. Lecture/Laboratory. Materials fee required. (CR/NC Only)
Transfer: CSU

BOT (Botany)

BOT 101—GENERAL BOTANY 4 Units
Prerequisite: Satisfactory completion of BIO 101
Principles of plant life, plant morphology, anatomy, physiology, reproduction, genetics, evolution, and ecology of bacteria, fungi, algae, archea, slime moulds, bryophytes, and vascular plants. Lecture/Laboratory. Field trips may be required. Transfer: CSU, UC (CAN BiOL 6, BiOL SEQ A; CC BiOL 6) General Education: (CSU-GE: B2) (IGETC: 5B)

BOT 110—PLANT BIOLOGY 3 Units
Introduction to plants, including structure and function, heredity, development, reproduction, ecology, and evolution as they pertain to plants. Not open to students who have completed Biology 101. Not a substitute for Botany 101. Lecture/Laboratory. Field trips may be required. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

BIO 100—STUDIES IN BUSINESS SUCCESS 1 1/2 Units
Recommended for Success: Satisfactory completion of GUIDE 110
Discussion of academic and other requisites for success in various business fields. Students will create a personal development plan for meeting academic requirements, acquisition of necessary skills, and entry into the job market of their elected field. Lecture. Transfer: CSU

BIO 200—SPREADSHEET SKILLS FOR FINANCIAL ACCOUNTING 2 Units
Prerequisite: Concurrent or previous enrollment in BUSAD 201 or 320.
Introduction to spreadsheet software. Spreadsheet analysis, design, testing and documentation as they relate to the field of accounting will be covered; hands-on experience using a microcomputer. Microsoft Excel or a similar spreadsheet application will be used. Lecture/Laboratory. Transfer: CSU

BIO 201—FINANCIAL ACCOUNTING 4 Units
Recommended for Success: Satisfactory completion of BUSAD 310 and ENGL 101 placement eligibility.
Introduction to the double entry accounting cycle, including journals, ledgers, adjustments, closing, and financial statements. Accounting for sole proprietorships and corporations; exposure to cash flows; merchandising operations; current and long-term assets and liabilities, including notes, bonds, and stocks. Emphasis on conceptual understanding. Lecture. Transfer: CSU, UC (CAN BUS 2) (CAN BUS SEQ A)(CC BUSAD 1A)

BIO 202—MANAGERIAL ACCOUNTING 4 Units
Prerequisite: Satisfactory completion of BUSAD 201
Introduction to Management Accounting, including treatment of accounting for the manufacturer, analysis of (1) cost-volume-profit relationships, (2) responsibility accounting and performance evaluation, (3) budgeting, (4) standard costing and variance analysis, (5) decision analysis for pricing and capital expenditures, (6) Just in Time accounting, (7) statement of cash flows, bonds and partnerships. Emphasis on managerial applications. Lecture. Transfer: CSU, UC (CAN BUS 4) (CAN BUS SEQ A) (CC BUSAD 1B)

BIO 203—COMPUTER ACCOUNTING 3 Units
Prerequisite: Satisfactory completion of BUSAD 201 or 310
Recommended for Success: BUSAD 320 if BUSAD 310 is used to satisfy the prerequisite.
Introduction to the use of the computer in accounting/bookkeeping. Practical applications of accounting through hands-on experiences on the personal computer using a variety of current computer accounting software packages. Lecture/Laboratory. Transfer: CSU

BIO 204—COST ACCOUNTING 3 Units
Prerequisite: Satisfactory completion of BUSAD 201 and 202.
Introduction to cost accounting theory and practice. Control of material, labor and burden costs; methods of applying expenses; job order and process cost system; cost statements. Lecture. Transfer: CSU

BIO 208—INTRODUCTION TO INTERNATIONAL BUSINESS 3 Units
Recommended for Success: Satisfactory completion of BUSAD 248
Also offered as AGEC 208.
A comprehensive overview of international business. Offers a global perspective of international trade, international organizations and the political and cultural impact of world trade. Lecture. Field trips may be required. Transfer: CSU

Continued
BUSAD 209—IMPORT/EXPORT FUNDAMENTALS 3 Units
Recommended for Success: Satisfactory completion of BUSAD 208
Also offered as AGEC 209.
Overview of processes and procedures involved in importing and exporting products and services. Special emphasis on finance and financial documentation. Lecture. Field trips may be required. Transfer: CSU

BUSAD 210—BUSINESS COMMUNICATION 3 Units
Prerequisite: ENGL 101 eligibility.
Principles and applications of written and oral business communications, including letter writing, persuasive writing, dictating techniques, oral communication, and informative report writing. Lecture. Transfer: CSU General Education: (MJC-GE: D)

BUSAD 218—BUSINESS LAW 4 Units
Recommended for Success: Third semester Business major.
Laws and regulations affecting managerial decisions; legal concepts and case analyses in the areas of ethics, employment, consumer transactions, competition, the environment, business torts and crimes, contracts, agency, business organizations, and international business. Lecture. Transfer: CSU, UC (CAN BUS 12) (CC BUSAD 18)

BUSAD 230—PERSONAL FINANCE 3 Units
Principles and practices of finance from the consumer’s point of view; factors involved in intelligent management of income and expenditure and ethical maximization of personal financial gain. Income and wealth distribution; occupational earnings; wise buying; consumer rights and legislation and protective agencies; credit and borrowing; financial services; automobiles; property; liability, health, life, and disability insurance; retirement, social security, pensions, annuities; housing; savings and investment; taxes; estate planning. Lecture. Transfer: CSU

BUSAD 233—INVESTMENTS 3 Units
Recommended for Success: Satisfactory completion of BUSAD 230, and at least one semester of accounting.
Thorough study of corporate stocks and bonds, with time deposits, government securities, mutual funds, real estate, commodity futures, options and less common investment media receiving brief consideration. Emphasis on careful, critical investigation of risk and reward—rigorous mathematical analysis expected. Field trips may be required. Lecture. Transfer: CSU

BUSAD 240—PRINCIPLES OF MANAGEMENT 3 Units
(Not open to those who have completed management telecourse.)
An introductory study of the basic business management functions: planning, organizing, leading, and controlling. Lecture. Transfer: CSU (CC BUSAD 40) General Education: (MJC-GE: B)

BUSAD 245—PRINCIPLES OF MARKETING 3 Units
Understanding customer needs and behavior; developing a product and/or service mix to satisfy customer needs profitably; determining promotional strategy; selecting channels and methods of distribution; establishing appropriate prices. Legal, political, cultural, social, economic, competitive and ethical aspects of marketing. Field trips may be required. Lecture. Transfer: CSU (CC BUSAD 30)

BUSAD 246—STORE MANAGEMENT 3 Units
An examination of the resources, abilities and knowledge necessary to establish and operate a retail business successfully. Subjects studied include site selection, merchandising policies and management, buying policies and activities, pricing, retail promotion, customer service and credit, personal selling and marketing research for retailers. Lecture. Transfer: CSU

BUSAD 247—WEB MARKETING 3 Units
Designed to provide an understanding of the World Wide Web and its potential as a marketing tool. Includes application basics, design, and utilization in primary or supportive e-commerce roles. Lecture. Transfer: CSU

BUSAD 248—INTRODUCTION TO BUSINESS 3 Units
Survey of business principles, problems and operations; legal, ethical, moral, and social issues; ownership; human resources; management; production; marketing; finance; managerial controls; government regulation; risk management. Lecture. Transfer: CSU, UC (CC BUSAD 20)

BUSAD 249—BUSINESS INTERNSHIP 4 Units
An internship program with selected business firms dealing with either accounting, computer science, marketing, business law, office administration, bookkeeping, or retail management practices in public or private agencies. Student interns will be under joint supervision of the employers and a faculty member. Intended to provide practical applications for students who have developed theoretical knowledge and effective interpersonal skills by completing their discipline’s introductory level course(s). See appropriate instructor for required enrollment forms. Transfer: CSU

BUSAD 259—SMALL BUSINESS MANAGEMENT 3 Units
Provides those intending and those involved in small business with the tools to help insure success. Covers establishing marketing, managing, and financing the new firm. Field trips may be required. Lecture. Transfer: CSU

BUSAD 274—HUMAN RESOURCES MANAGEMENT 3 Units
Principles and methods related to effective utilization of human resources in organizations. Understanding human relations involved in recruitment, selection, and placement of employees with regard to training, experience, and abilities. Discussion, illustrations, and case studies to develop techniques effective in dealing with personnel problems. Lecture. Transfer: CSU

BUSAD 299A, B—MARKETING PROJECTS 1,2 Units
Formerly listed as: BUSAD 285A, B—Special Projects
Independent analysis or design of computer accounting software or work in specialized BUSAD topics. Projects must have the approval of instructor. Conference with the instructor: minimum of 1 per month. Completions up to 4 maximum units. Laboratory. Transfer: CSU

BUSAD 300—MACHINE CALCULATION 2 Units
Recommended for Success: Satisfactory completion of MATH 20
Instruction in the operation of the electronic calculator including addition, subtraction, multiplication, and division using constant factors and automatic accumulation as applied to business applications. Major emphasis on 10-key touch operation. Lecture/Laboratory.

BUSAD 303—INTRODUCTION TO THE CALIFORNIA GAMING INDUSTRY 3 Units
Recommended for Success: Basic English and basic arithmetic skills.
Introduction to the history, current issues, laws, regulations, and career opportunities in the California Gaming Industry. Discusses the roles and responsibilities of gaming industry employees and provides hands-on training experiences in the terminology, skills and operations of legal games available throughout California. Students successfully completing this course will be prepared to seek employment within the gaming industry. Field trips required. Lecture/Laboratory. Students are required to replace lost or damaged course materials.

BUSAD 310—BOOKKEEPING 1 3 Units
Recommended for Success: Satisfactory completion of BUSAD 300 or MATH 50.
Essential bookkeeping fundamentals for job entry in business. Basics of double entry bookkeeping; general and special journals, general and subsidiary ledgers, business forms, payroll records and governmental payroll forms. Recommended as a preparatory course for BUSAD 201, Financial Accounting. Lecture.

BUSAD 319—PAYROLL ACCOUNTING 3 Units
Prerequisites: Satisfactory completion of BUSAD 301 or 201.
Recommended for Success: Satisfactory completion of BUSAD 302 if BUSAD 319 is used as a prerequisite.
Completing the payroll register. Reporting payroll tax information to the federal and state governments, with emphasis on completing both quarterly and annual reports. Making the necessary journal entries to record payroll transactions. Computing payroll on the microcomputer. Lecture/Laboratory.

BUSAD 320—BOOKKEEPING 2 3 Units
Prerequisite: Satisfactory completion of BUSAD 310
Entries requiring analysis and interpretation; entries for promissory notes; adjustments for prepaid; unearned and accrued items; depreciation of assets; property sales; closing of books; partnership and corporate accounting; cash flows and financial analysis. Lecture.

Continued
BUSAD 331—BEGINNING COMPUTER ACCOUNTING SOFTWARE  
1 Unit  
Prerequisites: Satisfactory completion of BUSAD 310 or 201.  
Recommended for Success: BUSAD 320 if BUSAD 310 is used to satisfy prerequisites.  
A beginning course using features of computerized accounting software package(s). Course is designed to enable students to learn and apply the features of computerized accounting software to record, process and communicate financial accounting data for a Service Company in the small business setting. Lecture. Two maximum completions.

BUSAD 332—INTERMEDIATE COMPUTER ACCOUNTING SOFTWARE  
1 Unit  
Prerequisites: Satisfactory completion of BUSAD 331.  
A continuation of the beginning course using features of computerized accounting software package(s). Course is designed to enable students to learn and apply the features of computerized accounting software to record, process and communicate financial accounting data for a Merchandising Company in the small business setting. Lecture. Two maximum completions.

BUSAD 333—COMPUTER ACCOUNTING SOFTWARE  
2 Units  
Prerequisites: Satisfactory completion of BUSAD 310 or 201.  
Recommended for Success: Satisfactory completion of BUSAD 320 if BUSAD 310 is used to fill prerequisite.  
A combination of BUSAD 331 and BUSAD 332. A beginning course using features of computerized accounting software package(s). Course is designed to enable students to learn and apply the features of computerized accounting software to record, process and communicate financial accounting data for a Service Company and for a Merchandising Corporation in the small business setting. Lecture. Two maximum completions.

BUSAD 336—TAX ACCOUNTING  
3 Units  
Recommended for Success: Satisfactory completion of BUSAD 201 or 310 US Federal Income Tax to include preparation of Federal Tax Returns, supplemental Federal schedules for individuals and business forms, and computation of social security and other self-employment taxes. One completion allowed. (A-F or CR/NC) Field trips may be required. Lecture. (Fall)

BUSAD 358—SALES AND ADVERTISING PROMOTION  
3 Units  
Fundamentals of personal selling and advertising. The sales process is defined and analyzed. The use of a variety of advertising techniques, methods, and media are explored. Stresses practical application. Lecture.

BUSAD 364—TOTAL QUALITY MANAGEMENT  
3 Units  
Recommended for Success: Satisfactory completion of SUPR 351, BUSAD 240 or equivalent.  
Also offered as SUPR 364.  
(Note open to those who have completed management telecourse.)  
This course provides an introduction to W. Edward Deming’s philosophy of Total Quality Management and its implications for improving the competitiveness of American business in the international economy. A variety of related management topics is also presented. Lecture.

BUSAD 377—HUMAN RELATIONS IN BUSINESS  
3 Units  
People and their roles in the business and non-profit community. The nature of work, the work environment, personal skills and performance, work groups, and solving human relations problems. Lecture.

BUSAD 379—CUSTOMER RELATIONS  
1 Unit  
Provide the student with skills and attitudes necessary to be successful in the workplace. Focusing upon internal and external business interactions, customer satisfaction, departmental dynamics, appropriate procedure and protocol. Field trips may be required. Lecture.

BUSAD 380—CUSTOMER SERVICE  
1 Unit  
Provide the student with the skills necessary to establish effective customer service. Including public administration skills, sales techniques, and conflict management. Course is focused upon serving the public. Field trips may be required. Lecture.

BUSAD 391—LOGISTICS MANAGEMENT  
3 Units  
Basic aspects of Logistics Management: to include customer service, transportation, distribution, warehousing, inventory procurement, and materials handling management. Lecture. Field trips required.

COURSES OFFERED AT MJC  
Continued
COURSES OFFERED AT MJC

CGR - CHEM

CGR 224—ELECTRONIC PUBLISHING SYSTEMS 3 Units
Recommended for Success: Satisfactory completion of OFADM 351
Formerly listed as GRC 224.
Introduction to electronic publishing systems, to include text generation, computer-designed graphics. Typographical applications and textsetting devices, to include imagesetters and direct to plate devices. Current options for hardware and software used in the graphic communication industry and the advantages and disadvantages. Postscript and its role in electronic publishing. Field trips may be required. Two maximum completions. Lecture/Laboratory. Not offered every semester. Transfer: CSU (MJC Activities)

CGR 225—PRODUCTION SCREEN PRINTING 2 Units
Fundamentals of production screen printing on multi-media or substrates. Screen printing with single and multi-color with halftone registration. Field trips may be required. Materials fee required. Lecture/Laboratory. (Spring) Transfer: CSU.

CGR 230—GRAPHIC DESIGN 3 Units
Recommended for success: Satisfactory completion of ART 120, ART 124, CGR 211, CGR 212, and CGR 224.
Provides a knowledge of graphic design principles and application in business today. Note: Illustrator software. Lecture/Laboratory. Field trips required. Transfer: CSU (MJC Activities)

CGR 232—GRAPHIC DESIGN PORTFOLIO DEVELOPMENT 1 Unit
Development of a portfolio which orchestrates what is to be seen, how it is to be sequenced and the duration of its exposure. The portfolio will reflect creative ability, technical proficiency and an abundance of ideas. Field trips may be required. Lecture. Materials fee required. (A-F Only) Transfer: CSU

CGR 331—TIPOGRAPHY 2 3 Units
Recommended for Success: Satisfactory completion of CGR 211 and 212.
Instruction in advanced typesetting techniques relating to commercial printing. Operation of display, text, and computer assisted typesetting equipment. Advanced methods of form composition. Note: QuarkXPress software. Lecture/Laboratory. (A-F Only) (Spring)

CGR 332—PRODUCTION PRESSES AND BINDERY 3 Units
Recommended for Success: Satisfactory completion of CGR 214, 223 or equivalent training.
Formerly listed as GRC 332.
Fundamentals in care, maintenance and setting of rollers in large press systems. Includes instruction in operational procedures for large presses, including handling of press plates. Special attention given to complex color printing and production printing of all types. Production bindery in all areas to include: folding, stitching, coil binding, fastback binding, and specialty presses for bindery. The emphasis will be on production and quality control. Field trips may be required. Lecture/Laboratory. (A-F Only) (Fall)

CGR 333—PHOTO TECHNIQUES 3 Units
Recommended for Success: Satisfactory completion of CGR 211 and 221.
Photo manipulation procedures: Photoshop training, image capture using scanners and digital cameras, output devices (proofing and image setters), special films, proofing methods and materials, and utilizing industry equipment and software. Note: Primary software (Photoshop). Lecture/Laboratory. (A-F Only) (Fall) (MJC Activities)

CGR 342—DESIGNING FOR CLIENTS 2 Units
Prerequisite: Satisfactory completion of CGR 212
Recommended for success: Satisfactory completion of 211, 224, 230, 221, and 331.
Techniques required to design and prepare copy for several types of printing media. Emphasis on digital skills and procedures required for the production of artwork. Design and preparation of printing for a client. Field trips may be required. Lecture/Laboratory. (A-F Only) Spring)

CGR 350—GRAPHIC COMMUNICATION INTERNSHIP 2 Units
Prerequisite: Minimum of 15 units completed in Communication Graphics major.
Supervised field experience in graphic communications. Study and research related to job training. Current developments in graphic communications. Initial orientation, two student/instructor conferences and one local work-site visit. 150 hours paid or 120 hours non-paid work per semester equals 2 units. Three maximum completions.

CGR 352—PRODUCTION MANAGEMENT 1 Unit
Prerequisite: Minimum of 15 units completed in Communication Graphics major.
Fundamentals of Graphics Production Management to include: job flow, production work, maintenance schedules, estimating, purchasing, production scheduling, and development of portfolios. Field trips may be required. Laboratory. (Spring)

CHEM (Chemistry)

CHEM 101—GENERAL CHEMISTRY 1 5 Units
Prerequisite: Satisfactory completion of (CHEM 142 or CHEM 143) and (MATH 90 or eligibility for MATH 101 or higher.)
Principles of chemistry emphasizing measurement, stoichiometry, gas laws and theory, thermodynamics, atomic structure, periodic properties, bonding, and solution chemistry. Lecture/Laboratory/Discussion. Materials fee may be required. (A-F or CR/NP) One completion allowed. Transfer: CSU, UC (CAN CHEM 2) (CAN CHEM SEQ A) (CC CHEM 1A) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

CHEM 102—GENERAL CHEMISTRY 2 5 Units
Prerequisite: Satisfactory completion of CHEM 101.
Continuation of Chemistry 101 emphasizing kinetics, electrochemistry, thermodynamics, radiochemistry, and descriptive chemistry. Lecture/Laboratory. Transfer: CSU, UC (CAN CHEM 4) (CAN CHEM SEQ A) (CC CHEM 1B) General Education: (CSU-GE: B1) (IGETC: 5A)

CHEM 103—GENERAL CHEMISTRY 2 LECTURE 3 Units
Prerequisite: Satisfactory completion of CHEM 101.
Lecture portion only of CHEM 102. Continuation of Chemistry 101 emphasizing kinetics, equilibrium, electrochemistry, thermodynamics, radiochemistry, and descriptive chemistry. Lecture. Transfer: CSU, UC General Education: (CSU-GE: B1) (IGETC: 5A)

CHEM 112—ORGANIC CHEMISTRY 1 5 Units
Prerequisite: Satisfactory completion of CHEM 102 or CHEM 103.
Nomenclature, structure, reactions and spectroscopy of carbon containing compounds. Laboratory emphasizes basic techniques of synthesis, purification, and identification of organic compounds. Lecture/Laboratory/Discussion. Materials fee may be required. (Fall) Transfer: CSU, UC General Education: (CSU-GE: B1) (IGETC: 5A)

CHEM 113—ORGANIC CHEMISTRY 2 5 Units
Prerequisite: CHEM 112
A continuation of CHEM 112 with emphasis on alcohols, amines, carbonyl, carboxyls, and biologically important compounds. Includes special topics in organic reactions and syntheses. Lecture/Laboratory. Materials fee may be required. (Spring) Transfer: CSU, UC General Education: (CSU-GE: B1) (IGETC: 5A)

CHEM 142—PRE-GENERAL CHEMISTRY 4 Units
Prerequisite: Satisfactory completion of or concurrent enrollment in MATH 90.
Principles of chemistry, emphasis on problem solving using factor-label method. Primarily for students planning to continue on to CHEM 101 or 144. Credit not granted to students who have completed CHEM 143. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

CHEM 143—INTRODUCTORY COLLEGE CHEMISTRY 5 Units
Prerequisite: Eligibility for MATH 90.
Designed to meet the requirements for certain nursing, dental hygiene, physical therapy, home economics, agriculture and forestry programs (inorganic chemistry). Principles of chemistry including an introduction to organic chemistry. Uses the factor-label method of problem solving. Credit not granted to students who have completed CHEM 142.. Lecture/Laboratory/Discussion. Materials fee may be required. Transfer: CSU, UC (CAN CHEM 6) (CAN CHEM SEQ B) (CC CHEM 10) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

Continued Ó
CHEM 144—FUNDAMENTALS OF ORGANIC AND BIOCHEMISTRY  
Prerequisite: Satisfactory completion of CHEM 142 or CHEM 143.  
Basic principles of organic and biochemistry. Uses inductive and deductive problem solving methods. Lecture/Laboratory. Materials fee may be required. (Spring) Transfer: CSU, UC (CAN CHEM B) (CAN CHEM SEQ B) General Education: (CSU-GE: B1) (IGETC: 5A)

CHEM 150—EXPLORING OUR CHEMICAL ENVIRONMENT  3 Units  
The interaction of mankind and the environment from a chemical perspective. Basic chemical principles are developed in order to understand such items as conventional, nuclear, and alternative energy sources, air and water pollution, fertilizers, pesticides, food preservatives, genetic engineering, and medicines and drugs. Field trips may be required. Lecture. Transfer: CSU, UC (CC CHEM 20) General Education: (MJC-GE: A) (CSU-GE: B1)

CHEM 164—CHEMISTRY LABORATORY FOR THE ELEMENTARY SCHOOL TEACHER  
Prerequisite: CHEM 150 or concurrent enrollment in CHEM 150  
Practical experience using applications in chemistry and physical science that can be used in an elementary school classroom. The scientific method and chemical principles will be stressed. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Not offered every semester. Transfer: CSU

CLART (Culinary Arts)

CLART 211—FOOD SAFETY AND SANITATION  2 Units  
Formerly listed as: CLART 311  
Law and practices related to sanitation and safety in the food preparation industry. Field trips may be required. Three maximum completions. Not offered every semester. Lecture/Laboratory. Transfer: CSU (CC HPMGT 120)

CLART 301—CULINARY ACADEMY 1  14 Units  
An introductory course designed to familiarize the student with basic culinary skills development. The daily production will emphasize techniques of roasting, grilling and braising utilizing menus that reflect American regional cuisine. Students will be introduced to stocks, soups, mother sauces, sauce derivatives, thickening agents, and flavoring agents. Identification and function, purchasing and receiving, and proper storage procedures of ingredients and products will be discussed. The baking module will provide students with the opportunity to prepare breads, rolls, biscuits, muffins, pies, tarts and cookies. Field trips may be required. Lecture/Laboratory. Fee for food supplies. Not offered every semester. (Fall)

CLART 302—CULINARY ACADEMY 2  14 Units  
Prerequisite: Satisfactory completion of CLART 301  
Daily production will emphasize techniques of specialty desserts, pastries, garde manger, and advanced cooking techniques that reflect modern American and international cuisine. Areas of specialized study include management and supervision, cost control, computers, menu planning and facility planning. Field trips may be required. Lecture/Laboratory. Fee for food supplies. Not offered every semester. (Spring)

CLDDV (Child Development)

CLDDV 48A,B —FUNDAMENTAL COMMUNICATION SKILLS FOR CHILD DEVELOPMENT MAJORS  
1-2 units  
Formerly listed as CLDDV 50A, B  
Recommended for success: Enrollment in at least one of the Child Development courses

Emphasis on developing fundamental communication skills including reading comprehension, preparation of written assignments, and spoken communication specific to the terminology utilized in the field of child development. Credit in this course may not be used to satisfy Child Development requirements for graduation from Modesto Junior College. Class can be completed a maximum of four times, for a maximum of 8.0 units, combined between 48A and 48B. Lecture.

CLDDV 101—INTRODUCTION TO EARLY CHILDHOOD STUDIES  
3 units  
Recommended for success: Satisfactory completion of ENGL 50  
History and development of educational programs for young children, infant through school-age. Completion of an educational plan, field observation of children, positive guidance techniques, and program philosophies and applications. Lecture. Transfer: CSU

CLDDV 103—CHILD GROWTH AND DEVELOPMENT  
3 units  
(Formerly listed as CLDDV 245)  
Recommended for success: Satisfactory completion of ENGL 50  
Infancy, childhood, and adolescence, including prenatal and birth: physical, cognitive, social, emotional, and atypical development. Discussion of current research and application. Lecture. Transfer: CSU

CLDDV 104—CHILD GROWTH & DEVELOPMENT - CONCEPTION THROUGH EARLY CHILDHOOD  
2 units  
Recommended for success: Satisfactory completion of ENGL 50  
First half of CLDDV 103 - Conception through early childhood, including prenatal and birth: physical, cognitive, social, emotional, and atypical development. Discussion of current research and application. Lecture. Transfer: CSU

CLDDV 105—CHILD GROWTH & DEVELOPMENT- LATE CHILDHOOD THROUGH LATE ADOLESCENCE  
2 units  
Recommended for success: Satisfactory completion of ENGL 50  
Second half of CLDDV 103 - Late childhood through late adolescence: physical, cognitive, social, emotional, and atypical development. Discussion of current research and application. Lecture. Transfer: CSU

CLDDV 107—INTRODUCTION TO CHILD DEVELOPMENT CURRICULUM  
3 Units  
(Formerly listed as CLDDV 278)  
Recommended for success: Satisfactory completion of ENGL 50  
Study of appropriate play, aesthetic and learning experiences including program content, use of materials and equipment and guidance of children’s experiences in developmentally appropriate fashion; techniques of meeting physical needs of children. Principles of learning, models of curricular philosophies and programs and integration of domains of development will be integrated. Discussion of cultural contexts, variations in development and inclusion of children with special needs. Lecture. Transfer: CSU

CLDDV 109—CHILD - FAMILY - COMMUNITY  
3 Units  
(Formerly listed as CLDDV 249)  
Understanding a child in the context of that child’s family and community. Focus on resources and programs serving families with children. Impact of societal influences on children and their families. Lecture. Transfer: CSU
CLDDV 110—SOCIAL RECREATION LEADERSHIP 2 Units
Also offered as REC 110
Introduction to and application of recreation and leisure leadership techniques in group situations including social recreation. Lecture. Transfer: CSU

CLDDV 121—GUIDANCE OF YOUNG CHILDREN 3 Units
Formerly listed as CLDDV 246
Recommended for success: CLDDV 101, or CLDDV 103, or CLDDV 104 and CLDDV 105
Developing effective relationships with young children through positive guidance practices. Identification and application of appropriate guidance techniques. Lecture. Transfer: CSU

CLDDV 122—LEARNING ENVIRONMENTS FOR INFANTS AND TODDLERS 2 units
Prerequisite: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105
Concurrent Enrollment: CLDDV 127
Development and evaluation of the learning environment for infants and toddlers including goals, programs, materials, and equipment and interaction of children, staff and families. Lecture. Transfer: CSU

CLDDV 123—LEARNING ENVIRONMENTS FOR YOUNG CHILDREN 3 Units
Formerly listed as CLDDV 247
Recommended for success: Satisfactory completion of CLDDV 101, or CLDDV 103, or CLDDV 104 and CLDDV 105
Development and evaluation of the learning environment for young children including physical environment, curriculum, goals, materials, and equipment. Exploration of the interaction of children, teachers, and families, and how these interactions affect programs and children’s development. Lecture. Transfer: CSU

CLDDV 125—INFANT AND TODDLER DEVELOPMENT 3 Units
Formerly listed as CLDDV 251
Prerequisite: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105
Emotional, social, and cognitive needs of infants and toddlers including health, developmental characteristics, special needs, and quality group care. Department of Social Services Regulations in infant care. Lecture. Transfer: CSU

CLDDV 127B,C,D,E—INFANT / TODDLER PRACTICUM 2-5 Units
Formerly listed as CLDDV 252
Prerequisite: Satisfactory completion of CLDDV 125
TB clearance is required.
A hands-on practical experience of planning developmentally appropriate activities for infants and toddlers. Includes teaching in an infant/toddler environment while utilizing positive and nurturing guidance techniques, and evaluating developmental levels of the children through authentic observational assessment. CLDDV 130 - Supervised Field Experience - may NOT be used as a substitute for lab practicum. Class may be completed for a maximum of 10 units. Lecture / Laboratory. Transfer: CSU

CLDDV 128B,C,D,E—PRESCHOOL PRACTICUM 2-5 Units
Formerly listed as CLDDV 248
Prerequisite: Satisfactory completion of CLDDV 101, or CLDDV 103, or CLDDV 104 and CLDDV 105;
TB clearance is required.
A hands-on practical experience of planning developmentally appropriate activities for young children. Includes teaching in a preschool classroom environment while utilizing positive and nurturing guidance techniques, and evaluating developmental levels of the children through authentic observational assessment. CLDDV 130 - Supervised Field Experience - may NOT be used as a substitute for lab practicum. Class may be completed for a maximum of 10 units. Lecture / Laboratory. Transfer: CSU

CLDDV 129B,C,D,E—SCHOOL-AGE PRACTICUM 2-5 Units
Prerequisite: Satisfactory completion of CLDDV 101, or CLDDV 103, or CLDDV 104 and CLDDV 105;
TB clearance is required.
A hands-on practical experience of planning developmentally appropriate activities for school-age children. Includes hands-on experience in a classroom environment while utilizing positive and nurturing guidance techniques, and evaluating developmental levels of the children through authentic observational assessment. CLDDV 130 - Supervised Field Experience - may NOT be used as a substitute for lab practicum. Class may be completed for a maximum of 10 units. Lecture / Laboratory. Transfer: CSU

CLDDV 130B,C,D—SUPERVISED FIELD EXPERIENCE 2-4 Units
Formerly listed as CLDDV 260
Fingerprint and TB clearances are required.
Designed to combine experience in an infant, toddler, preschool, school-age care facility, or K-12 classroom with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Provides an orientation to the structure of work experience education and develops specific knowledge and skills related to employment situations through the accomplishment of goals. 75 paid hours or 60 volunteer hours of related work experience are required for the 2-unit class; 150 paid hours or 120 volunteer hours of related work experience are required for the 3-unit class; 225 paid hours or 180 volunteer hours of related work experience are required for the 4-unit class. This course may NOT be used as a substitute for lab practicum. Class can be completed a maximum of four times, for a maximum of 16.0 units, Lecture / Field Experience. Transfer: CSU

CLDDV 150—ADMINISTRATION OF CHILDREN’S PROGRAMS 3 Units
Formerly listed as CLDDV 250
Prerequisite: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105
Laws governing private and public children’s centers in California. Aspects of records, reports, health and safety, finances, staff management, children’s programs, space, equipment, and parent-community relationships from the administrator’s point of view. Lecture. Transfer: CSU

CLDDV 151—ADVANCED ADMINISTRATION OF CHILDREN’S PROGRAMS 3 Units
Formerly listed as CLDDV 270
Prerequisite: Satisfactory completion of CLDDV 103, CLDDV 150, or CLDDV 104 and CLDDV 105
An advanced course for directors and site supervisors in child care programs. Staff development and leadership techniques. Fiscal, advocacy, and current issues will be explored. Lecture. Transfer: CSU

CLDDV 154—ADULT RELATIONSHIPS AND MENTORING IN SCHOOLS 2 Units
Formerly listed as CLDDV 264
Prerequisite: Satisfactory completion of CLDDV 101; CLDDV 103, or CLDDV 104 and CLDDV 105
Impact of staff interaction upon children and other adults in the classroom environment. Roles and functions of adults as professionals. Lecture. Transfer: CSU

CLDDV 160—ATYPICAL DEVELOPMENT 3 units
Formerly listed as CLDDV 277
Recommended for success: ENG 50; CLDDV 103, or CLDDV 104 and CLDDV 105
Examines the interaction of genetic, biological, and environmental influences in the prenatal, natal, and postnatal environment that contribute to the development of the atypical child. Identification of a variety of special needs in children from birth to 12 years of age. Factors influencing development will be explored including family, community, and culture as the child is included in all environments. Lecture. Transfer: CSU General Education: (MJC-GE: B)
CLDDV

CLDDV 163—WORKING WITH CHILDREN WITH SPECIAL NEEDS
3 Units
Introduction to inclusion of children with special needs, from infancy to adolescence in the school and community. Includes laws and policies. Emphasis on cognitive, social, emotional, and physical development for the child with disabilities in care and educational settings. Collaboration with parents as partners and methods for working with professionals. Lecture. Transfer: CSU

CLDDV 165—CHILDREN AT RISK
3 Units
Recommended for Success: Satisfactory completion of ENGL 50
Examines risk conditions for prenatal, infants, and young children including prenatal drug exposure, very low birth weight, serious congenital infection, congenital anomaly, low Apgar scores at birth, and other potential neurologic problems. Introduces the characteristics and effects of major childhood stress, including parental divorce and remarriage, parental illness and death, childhood illness and disability, child abuse and family violence, and parental incarceration. Field trips may be required. Lecture. Transfer: CSU

CLDDV 167—OBSERVATION AND ASSESSMENT
3 Units
Prerequisites: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105, or CLDDV 245
Recommended for Success: Satisfactory completion of ENGL 50
Observation as a means of assessing developmental levels of infants, young and school age children. Introduction of various informal, formal, normed, standardized, and valid assessment and screening tools. Integration of observation techniques to perform reliable screenings and assessments to create a portfolio to be presented to parents/Field trips may be required. Lecture. Transfer: CSU

CLDDV 201—HEALTH AND SAFETY PRACTICES
3 Units
IN PROGRAMS FOR CHILDREN
Universal health precautions and other health and safety practices for children’s programs. Health and safety requirements mandated by county and state, including injury prevention, infant and child first aid and CPR (satisfactory completion will earn student the Red Cross certificates in First Aid and CPR), prevention of infectious disease, caring for ill children, and recognizing signs of child abuse. Lecture. Transfer: CSU

CLDDV 231—OVERVIEW OF FAMILY CHILD CARE
3 Units
(Formerly listed as FAMLF 331)
Selected topics related to family child care including, but not limited to, securing a license from California Department of Social Services, interpersonal relations, business management, program development, policy formulation, health, safety, nutrition, food practices, child guidance, and environmental maintenance, including utilization of a rating schedule. Lecture. Transfer: CSU

CLDDV 232—HEALTHY CAREGIVER
3 Units
(Formerly listed as FAMLF 330)
Selected topics related to the professional growth of the family child care provider including interpersonal skills, communication styles, prevention of burn-out, and strategies for career success. Lecture. Transfer: CSU

CLDDV 244—OBSERVATIONAL STUDY OF CHILDREN
1 unit
Prerequisite: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105, or concurrent enrollment
Study of children in a natural setting, how they develop, and the process by which developmental change takes place. Lecture / Laboratory. Transfer: CSU

CLDDV 262—DIVERSITY IN EDUCATIONAL SETTINGS
3 Units
Formerly listed as “Diversity in Early Childhood Education”
Recommended for success: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105
Examines social interactions in the classroom with emphasis on diversity and antibias philosophy. Analysis of teacher biases and the impact on children and families. Development of diverse curriculum and environments for children. Field trips may be required. One completion allowed. (A-F or CR/NC). Lecture. Transfer: CSU

CLDDV 266—MENTOR SEMINAR
½ Unit
Beginning Early Childhood Mentors attend seminars to explore issues related to their role as supervisors of early childhood student teachers. Seminar content will be individualized to meet the needs of each mentor. Class can be completed a maximum of four times, for a maximum of 2.0 units. Lecture. Transfer: CSU

CLDDV 267—DIRECTOR SEMINAR
1 Unit
Directors, site supervisors and other administrators of early childhood programs attend monthly seminars to explore issues related to professional duties. Seminars will include quality improvement efforts, advocacy, supervision and mentoring of colleagues. Seminar content will be individualized to meet the needs of participants. Class can be completed a maximum of four times, for a maximum of 4.0 units. Lecture. Transfer: CSU

CLDDV 271—HEADSUP! READING – 1
1 Unit
Recommended for Success: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105, or CLDDV 350
Research-based principles and practices for providing children birth through age five a strong foundation in early reading and writing within a developmentally appropriate approach. Part 1 of a three part series. Lecture. Transfer: CSU

CLDDV 272—HEADSUP! READING – 2
1 Unit
Recommended for Success: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105, or CLDDV 350
Research-based principles and practices for providing children birth through age five a strong foundation in early reading and writing within a developmentally appropriate approach. Part 2 of a three part series. Lecture. Transfer: CSU

CLDDV 273—HEADSUP! READING – 3
1 Unit
Recommended for Success: Satisfactory completion of CLDDV 103, or CLDDV 104 and CLDDV 105, or CLDDV 350
Research-based principles and practices for providing children birth through age five a strong foundation in early reading and writing within a developmentally appropriate approach. Part 3 of a three part series. Lecture. Transfer: CSU

CLDDV 274—EARLY LITERACY
3 Units
Recommended for success: CLDDV 103, or CLDDV 104 and CLDDV 105
Research-based principles and practice for literacy, reading, writing, speaking, listening, and thinking development in an early childhood education setting. Field trips may be required. Lecture. Transfer: CSU

CLDDV 279—HEADSUP! READING 1, 2, 3
3 Units
Research-based principles and practices for providing children birth through age 5 a strong foundation in early reading and writing within a developmentally appropriate approach. Lecture. Transfer: CSU

CLDDV 280 – SCHOOL-AGE DEVELOPMENT
3 Units
(Formerly listed as CLDDV 275)
A study of the developing child during the school-age years. Developmental characteristics of school-age children, influences on behavior and learning, and the fundamentals of planning and implementing curriculum in programs serving school-age children and their families. Lecture. Transfer: CSU

CLDDV 281 – SCHOOL-AGE PROGRAM AND CURRICULUM
3 Units
(Formerly listed as CLDDV 276)
The fundamentals of planning, implementing, and evaluating curriculum for programs serving school-age children and their families. Developing and providing age appropriate activities, environment, and relationships in the context of an integrated and active curriculum. Lecture. Transfer: CSU

CLDDV 290A, C – BRAIN DEVELOPMENT THROUGH MUSIC AND MOVEMENT ACTIVITIES
3 units
(Formerly listed as CLDDV 365)
Recommended for Success: Satisfactory completion of ENGL 50, CLDDV 103, or CLDDV 104 and CLDDV 105
The brain and its connection to motor skill development in young children. Non-competitive group games, movement programs, and educational fitness. Lecture. Transfer: CSU

Continued...
CLDDV 291 — CREATIVE ACTIVITIES FOR YOUNG CHILDREN 3 units
(Formerly listed as CLDDV 364)
Recommended for Success: Satisfactory completion of ENGL 50, CLDDV 103, or CLDDV 104 and CLDDV 105
Develop, implement, and analyze creative experiences in the young child’s learning process. Lecture. Transfer: CSU

CLDDV 292 — MATH AND SCIENCE CURRICULUM FOR YOUNG CHILDREN 3 units
Recommended for Success: Satisfactory completion of ENGL 50, CLDDV 103, or CLDDV 104 and CLDDV 105
Study of math and science exploration by young children. Evaluation and development of appropriate math and science activities and materials. Discussion of variations in developmental levels, inclusion of children with special needs, and respect of cultural differences. Lecture. Transfer: CSU

CLDDV 350 — THE YOUNG CHILD 2 units
Basic concepts of growth and development of young children. Evaluating learning experiences for young children based on development. Lecture.

CLDDV 357 — CURRENT ISSUES: CHILD CARE DIRECTORS 1 unit
Study of current issues and planning decisions facing directors of child care programs; examination and analysis of new and proposed state regulations. Lecture.

CLDDV 366 — CURRENT ISSUES: INFANT/TODDLER TEACHERS 1 unit
Study of current issues in creating infant/toddler environments, evaluating development, and parent interaction. Lecture.

CLDDV 367 — CURRENT ISSUES: PRESCHOOL TEACHERS 1 unit
Study of current issues in creating preschool environments, evaluating development, and parent interaction. Lecture.

CLDDV 369 — CHILDREN AT RISK 1 unit
Understanding the impact of prenatal exposure to drugs and violence on children and families. Strategies to assist teachers, family child care providers, foster parents and other professionals in meeting needs of children prenatally exposed to drugs. Lecture.

CLDDV 370 — ISSUES IN CHILDREN’S NUTRITIONAL HEALTH 2 units
Also offered as FDNTR 370
Overview of entry level skills in the child nutrition program including sanitation, record keeping, and food production. Role and responsibilities in providing menus for children and youth which comply with budgetary parameters and meet their nutritional, social and emotional needs with sensitivity to culturally diverse foods. Lecture.

CLDDV - CMPET

CMPET 210 — INTERMEDIATE PERSONAL COMPUTER SERVICING WITH A+ CERTIFICATION TRAINING 3 units
Prerequisite: Satisfactory completion of CMPT 206 or CMPT/ELTEC 214.
Intermediate principles and practices of personal computer systems maintenance, upgrading and repair with an emphasis on preparation for A+ Computer Technician Certification administered by CompTIA. Contents include hardware and operating system setup, adding peripherals, communication and networking fundamentals, disaster recovery and supporting Windows NT. Lecture/Laboratory. Materials fee required. Transfer: CSU.

CMPET 212 — DIGITAL PRINCIPLES AND CIRCUITS 3 units
Prerequisite: Satisfactory completion of MATH 70 or concurrent enrollment.
Also offered as ELTEC 212.
Introduction to digital circuits. Use and application of digital components in electronic devices and computers. Interfacing input and output devices to digital circuits. Introduction to programmable logic devices. Materials fee required. Lecture/Laboratory. Transfer: CSU.

CMPET 214 — MICROPROCESSOR PROGRAMMING AND INTERFACING 4 units
Prerequisite: Satisfactory completion of ELTEC 212/CMPT 212 Also offered as ELTEC 214.
Introduction to the structure and operation of microprocessors as controllers for today’s electronic devices and systems. Basic microprocessor hardware including memories, registers, counters, input/output ports, decoders, and arithmetic logic using the popular PIC RISC microcontroller. Machine language simulation and development on personal computers. Emphasis on interfacing to electronic hardware. Materials fee required. Lecture/Laboratory. (A-F Only) Transfer: CSU.

CMPET 232 — INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS 2 units
Also offered as ELTEC 232.
Introduction to the basic concepts of programmable logic controllers. Installation, programming, maintaining, and troubleshooting of microized programmable logic controller systems. Lecture/Laboratory. (A-F Only) Transfer: CSU.

CMPET 234 — ADVANCED TOPICS IN PROGRAMMABLE LOGIC CONTROLLERS 2 units
Recommended for Success: Satisfactory completion of ELTEC 232/CMPT 232 or equivalent course. Also offered as ELTEC 234.
Advanced study of programmable logic controllers and complete controller systems. Emphasis on component selection, design and operation of industry-like controller systems. Lecture/Laboratory. (A-F Only) Transfer: CSU.

CMPT 269 — NETWORK+ CERTIFICATION TRAINING LAB 1 unit
Concurrent Enrollment: Satisfactory completion of CMPS 263 Recommended for Success: Satisfactory completion of any introductory computer course.
Also offered as CMPS 269.
Network+ is quickly becoming the standard for introductory-level industry certification. Designed for those interested in a career in network support, this vendor-neutral certification takes the student through installing and configuring a network client. This laboratory course along with the CMPS 263 course provides preparation for CompTIA’s Network+ certification exam. Extensive network lab projects will be required. Field trips may be required. Laboratory. Materials fee required. Transfer: CSU.

CMPT 302 — INTRODUCTION TO INDUSTRIAL NETWORKING WITH DEVICEVNET 1 unit
Instruction on DeviceNet which is an open architecture system of smart sensors, controllers, and I/O all linked together on a common network and controlled by a PC that may or may not be networked to other PC’s. Exploration of device level hardware and software. Lecture.
COURSES OFFERED AT MJC

CMPGR

(Computer Graphics Applications)

CMPGR 201—ANIMATION: A GLOBAL VIEW

3 Units

OF ART IN MOTION

History of animation and its relationship to societies and cultures. Explores the development of animation from its earliest attempts in prehistoric times through the present day integration of technology. Strategies for production are presented, including animation techniques, design, layout, editing, timing, composition, color, lighting, music, sound effects, voice, story, concept, content, theme, historical relationship, social context, ethical context, purpose, audience, and philosophy. Field trips may be required. Lecture. Transfer: CSU General Education: (MJC-GE: C)

CMPGR 202—INTRODUCTION TO COMPUTER GRAPHICS

3 Units

Also offered as ART 102.

An introductory course in the field of computer graphics using various applications and tools. Topics explored include, but are not limited to, original image creation, photographic editing, scanning, printing, two-dimensional animation, sound digitizing pens, mouse, and digital camera. Field trips may be required. Materials fee required. Lecture/Laboratory (MJC Activities) Transfer: CSU General Education: (CSU-GE: C1)

CMPGR 213—APPLIED COMPUTER GRAPHICS

3 Units

Recommended for Success: Satisfactory completion of ART 102/CMPGR 202.

Also offered as ART 103.

Concepts and techniques in computer graphics as related to fine and applied art applications. Field trips may be required. Materials fee required. Lecture/Laboratory. Transfer: CSU

CMPGR 214—DIGITAL CAPTURE FOR COMPUTER GRAPHICS

3 Units

Recommended for Success: Satisfactory completion of any previous computer graphics course.

Explore digital capture and image editing techniques using such hardware devices as scanners, capture boards, digital cameras and video. Students must have access to a digital camera. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 215—BUSINESS PRESENTATION GRAPHICS

3 Units

Recommended for Success: Satisfactory completion of any introductory computer science class.

The use of a computer as a vehicle for preparing, producing, and controlling the presentation of visuals within the business environment. Both qualitative and quantitative data and selection of appropriate visual display format and media will be covered. Hardware and peripheral equipment as well as commercially available software will be covered. Emphasis is placed on the use of existing commercially available software with “hands on” experience being provided in an open lab environment. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU (CC CMPSC 11)

CMPGR 217—COMPUTER ILLUSTRATION SOFTWARE

3 Units

Recommended for Success: Satisfactory completion of CMPGR 202 or ART 102

Introduction to illustration software as applied to visual and data presentation. Explores the techniques and tools used by artists, designers, and illustrators to produce artwork for print, publishing, multimedia graphics, web page design or illustration. Hands-on experience with microcomputer graphics systems required. Field trips may be required. Materials fee required. Lecture/Laboratory. Transfer: CSU

CMPGR 219—COMPUTER GRAPHICS PORTFOLIO REVIEW

1 Unit

Prerequisite: This course follows the completed courses of the Computer Graphics majors/certificate requirements.

Also offered as ART 119.

Prepares the student majoring in or receiving a certificate in Computer Graphics with the necessary visual and business skills to develop a portfolio; emphasizes the creative and applied business needs for individuals entering the professional field of Computer Graphics. Field trips may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU

CMPGR 225—3D GRAPHICS AND ANIMATION

3 Units

Graphic animation techniques utilizing microcomputers and 3D software. 3D modeling, scene composition, materials editing, object and camera movement, character development and story-boarding will be explored. Students will have intensive hands-on experience with IBM or Mac graphic systems and related peripheral devices. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 235—IMAGE MANIPULATION SOFTWARE

3 Units

Recommended for Success: Satisfactory completion of a previous course in Computer Graphics.

Introduction to the techniques and technology of digital image capture and imaging manipulation software. Field trips may be required. Lecture/Laboratory. Materials fee required. Two maximum completions. Transfer: CSU

CMPGR 236—ADVANCED PHOTOSHOP APPLICATIONS

3 Units

Prerequisite: Satisfactory completion of CMPGR 235 or equivalent skills.

Advanced skills in Adobe Photoshop including layout and publication, image processing, web skills and illustration. Students will have extensive hands-on experience with IBM or MAC graphic systems and related peripheral devices. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 262—EXPLORING THE WORLD WIDE WEB

1 Unit

Introduction to the World Wide Web (Web). Use of a graphical browser for accessing, viewing, and saving Web documents. Use of E-mail, search engines and bookmarks. Current and emerging Web technologies, and the impact on education, business, organizations, and our professional and personal lives. Lecture/Laboratory. Materials fee required. Transfer: CSU (MJC Activities)

CMPGR 263—INTERNET LITERACY

3 Units

Recommended for Success: Satisfactory completion of any introductory computer class.

Provides the conceptual background and the online skills needed to become Internet literate. Covers Internet services: e-mail, listserv, newsgroups, FTP, telnet and the World Wide Web (WWW), Emphasis will be placed on the WWW, types of access (ISP), usage, software (browsers and other support software) and Internet etiquette in a global environment. Introduction to publishing and multimedia. Usage of search engines to conduct research and copyright issues and bibliographic style. Reflects on the impact of emerging technologies on the future of commerce and communications as well as societal issues. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 264—PUBLISHING ON THE WORLD WIDE WEB

3 Units

Recommended for Success: Satisfactory completion of CMPGR 262, CMPSC 201


CMPGR 265—MULTIMEDIA ON THE WORLD WIDE WEB

3 Units

Prerequisite: Satisfactory completion of CMPGR 264 or 287


CMPGR 267—DREAMWEAVER IN WEB SITE DESIGN

3 Units

Recommended for Success: Satisfactory completion of CMPGR 202 or ART 102.

Macromedia’s Dreamweaver web design software, including templates, libraries, Cascading Style Sheets, and FTP Strategies for creating intuitive and accessible web sites such as audience considerations, site map, and navigational building, and testing. Lecture/Laboratory. Transfer: CSU

Continued
CMPGR 268—FLASH: WEB GRAPHICS AND ANIMATION 1 3 Units
Recommended for Success: Satisfactory completion of CMPGR 202 or ART 102.
Introduction to Micromedia’s FLASH. Covers the tools and concepts of Flash and its many interactive possibilities and functions, including drawing, image, text, animation, sound, and action-scripting integration. Explores the strategies for creating intuitive and accessible FLASH productions from start-to-finish, such as audience considerations, site map and navigation building, and the effective use of content and animation, output, optimization and testing. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 269—FLASH: WEB GRAPHICS AND ANIMATION 2 3 Units
Prerequisite: Satisfactory completion of CMPGR 268
In-depth look into how FLASH is effectively used by real-world interactive designers and developers. Explore advanced FLASH concepts and tools such as dynamic text, tell-targeting movie clips, drop-down menus, scrolling text, scriptable masks, embedded video, streaming and event sound, and the integration of FLASH with HTML. Gain an understanding of how to use Action Scripting for more powerful interactivity and animation by exploring the use of variables, properties, expressions, functions, and operators. Bring together the FLASH methods learned into the creation of a final, online portfolio presentation. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 284—DESKTOP VIDEO ANIMATION 3 Units
Recommended for Success: Satisfactory completion of Basic Computer Graphics literacy course such as CMPGR 202 or ART 102.
Concepts and techniques utilizing computers and related technologies, with the video media. Video image capture enhancement, recording and playback for use in graphic image production/presentation, computer animation, web and CD will be explored. Students will have intensive “hands on” experience on the MAC or IBM graphic system and related video peripheral devices. Field trips may be required. Lecture/Laboratory. Materials fee required for special printer/plotter paper, inks, and film. Transfer: CSU (MJC Activities)

CMPGR 287—INTRODUCTION TO MULTIMEDIA 3 Units
Recommended for Success: Satisfactory completion of Basic Computer Graphics literacy course such as CMPGR 201.
Introduction to multimedia software and hardware on microcomputers. Students will have intensive “hands on” experience working with a variety of media such as text, numbers, sound, music, graphics, animation and video. Techniques of media capture, generation and editing and subsequent interactive multimedia development will be explored. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 288—INTERMEDIATE MULTIMEDIA 3 Units
Prerequisite: Satisfactory completion of CMPGR 287
Continuation of Multimedia concepts and applications. Working with a variety of media forms such as text, numbers, sound, music, graphics, animation and video. Emphasis is placed on further development of scripting and interactive design. Discussion of needs assessment, design issues, implementation and presentation will be combined with “hands on” projects. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPGR 298A,B—SPECIAL TOPICS IN COMPUTER GRAPHICS 1,2 Units
Prerequisite: Varies with topic.
Participation in discussion, analysis, and evaluation of a special topic in computer graphics, microcomputer applications, and related technologies. Topic to be announced in class schedule. Field trips may be required. Four maximum completions for a maximum of 6 units in any combination. Lecture or Lecture/Lab. Transfer: CSU

CMPSC
(Computer Science)

CMPSC 103—SYMBOLIC LOGIC 3 Units
Also offered as PHILO 103.
An introduction to modern deductive logic; includes sentential and predicate logic with identity theory and definite descriptions. Lecture. Not offered every semester. Transfer: CSU, UC (CAN PHIL 6) General Education: (MJC-GE: D2) (CSU-GE: A3)

CMPSC 201—GENERAL COMPUTER LITERACY 3 Units
Survey of the functions and uses of computers in business, education, industry, and science with emphasis on the personal computer; study of computers and peripheral equipment as integrated systems; exploration of the impact of computers on society; introduction to problem-solving and programming techniques; experience with popular internet and application packages on the laboratory microcomputers. Field trips may be required. Lecture. Laboratory arranged. Materials fee required. Transfer: CSU, UC (CAN CSCI 2) (CC CMPSC 1) General Education (MJC-GE: D2)

CMPSC 202—BUSINESS INFORMATION SYSTEMS 3 Units
Prerequisite: Satisfactory completion of BUSAD 201 or 310 and CMPSC 201.
Introduction to design, development, and use of information system models to improve managerial decision making. Study of information systems hardware and software; advanced computer codes; systems analysis and planning; systems security; application development using decision support systems; and expert systems. Lab work will focus on Internet research and advanced spreadsheet, database, and word processor functions for solutions to business problems. Field trips may be required. Lecture. Laboratory arranged. Materials fee required. Transfer: CSU, UC (CAN BUS 6)

CMPSC 203—COMPUTER APPLICATIONS 5 Units
Recommended for Success: Minimum touch keyboarding ability of 30 words per minute.
Concepts and techniques for using microcomputer applications. Instruction and extensive practice in Windows, word processing, spreadsheets, database management, Internet basics, file transfer between applications, and related auxiliary applications. (A-F or CR/NC) One completion allowed. Materials fee required. Transfer: CSU General Education: (MJC-GE: D)

CMPSC 204—INTRODUCTION TO PROGRAMMING 3 Units
Recommended for Success: Satisfactory completion of MATH 90 or qualification by MJC assessment process.
The first course in computer programming for students with little or no programming experience. General computer literacy issues describing computer hardware, software development, operating systems, and telecommunications will be covered. Beginning problem-solving analysis, documentation, algorithm design, control structures, program coding, using BASIC and C++, file input and output, and program testing and program maintenance will be stressed. Field trips may be required. Lecture/Laboratory. Materials fee required. (CR/NC Only) Transfer: CSU, UC

CMPSC 205—PROBLEM SOLVING AND PROGRAMMING 1 3 Units
Prerequisite: Satisfactory completion of CMPSC 204
Designed for computer science transfer majors but open to all students. Emphasizes algorithm development and problem analysis skills for computer science. Software engineering skills will be developed for both procedural programming and object-oriented programming. Solution algorithms will be implemented using either the C++ or Java programming languages. Extensive programming projects demonstrating problem solving and implementation skills will be assigned throughout the semester. Field trips may be required. Lecture/ Laboratory. Materials fee required. Transfer: CSU, UC (CAN CSCI 22, CSU, UC) (CC CMPSC 22)

178 COURSES OFFERED AT MJC
CMPS 206—INTRODUCTION TO UNIX/LINUX 3 Units
SYSTEMS AND PROGRAMMING
Recommended for Success: Satisfactory completion of CMPS 204
Introduction to the UNIX operating system using Linux. Coverage will include using UNIX shells, commands, the role of the system administrator, the UNIX file system, editors, file processing, shell programming utilities, PERL and CGI programming, C and C++ programming, and recent developments in UNIX and the S Windows graphical user interface. Extensive hands-on experience using UNIX operating system and programming within the UNIX environment. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC (CC CMPS 9)

CMPS 213—PROGRAMMING WITH VISUAL BASIC 3 Units
Prerequisite: Satisfactory completion of CMPS 204
Concepts in programming a computer using the language called Visual BASIC. Emphasis on structured design, graphical user interfacing, and documentation. Includes user screen development, control constructs, array processing, elementary file processing, and database access. Extensive interaction with computers will be expected. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC (CAN CSCI 6) (CC CMPS 28)
General Education: (MJC-GE: D2)

CMPS 214—ADVANCED VISUAL BASIC 3 Units
Prerequisite: Satisfactory completion of CMPS 213 or equivalent.
Advanced concepts of computer programming using Microsoft Visual BASIC. Students will program user interfaces with Microsoft Word, Excel and Access. They will also create Internet and general business interfaces. Graphics and game structure applications will be covered. Lecture/Laboratory. (Spring) Transfer: CSU, UC

CMPS 216 - JAVASCRIPT PROGRAMMING FOR THE INTERNET 3 Units
Prerequisite: Satisfactory completion of CMPS 264 and CMPS 204
 Developing World Wide Web applications with HTML and Javascript. An introduction to creating interactive HTML documents through manipulation of the WWW Document Object Model. Designing Web-based applications, validating and processing user input, creating dynamic documents utilizing DHTML. Extensive programming projects demonstrating problem solving and implementation skills will be assigned throughout the semester. Hands-on computer assignments required. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC

CMPS 220 - SQL SERVER ADMINISTRATION 3 Units
Prerequisite: Satisfactory completion of CMPS 275
Provides students with the knowledge and skills required to install, configure, administer, and troubleshoot Microsoft SQL Server client/server database management system version 7.0 or higher. Two maximum completions. Lecture/Laboratory. Materials fee required. Not offered every semester. Transfer: CSU

CMPS 225 - SQL DATABASE IMPLEMENTATION 3 Units
Prerequisite: CMPS 275
Provides students with the technical skills required to implement a database solution with SQL Server. Topics include: architecture, key features of SQL Server, reviewing SQL Server programming tools, Transact-SQL, creating databases, data integrity, planning and creating indexes, advanced query techniques, summarizing data, managing transactions and locks, implementing views, stored procedures and triggers, working with distributed data, and advanced text queries. Two maximum completions. Lecture. Laboratory arranged. Materials fee required. Not offered every semester. Transfer: CSU

CMPS 231—INTERMEDIATE WORD PROCESSING 3 Units
Recommended for Success: Satisfactory completion of OFADM 203 and (OFADM 330 or CMPS 274.)
Also offered as OFADM 231.
Intermediate word processing features such as mail merge, macros, styles, graphics, tabs, and sorts. Features will be applied in creating business documents. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPS 241—ASSEMBLY LANGUAGE PROGRAMMING 3 Units
Prerequisite: Satisfactory completion of CMPS 204
Designed for Computer Science transfer majors, but open to all students. Introduction to microcomputer hardware architecture and assembly language programming. A microprocessor instruction set will be examined in detail. Memory addressing modes, logic and control, data representations and manipulation, table processing, and device I/O control processes will be examined. Macros, program modules, and interrupts will be studied. Extensive hands-on computer projects implementing course objectives will be assigned. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC (CAN CSCI 10, CSU, UC) (CC CMPS 40) General Education: (MJC-GE: D2)

CMPS 261—PROBLEM SOLVING AND PROGRAMMING 3 Units
Prerequisite: Satisfactory completion of CMPS 205 or ACM CS-1 equivalent.
Introduction to simple data structures and object-oriented programming. Includes more advanced features of high-level languages such as C++ or Java. Continued emphasis on good programming methodologies and problem solving techniques and analysis. Programming problems implementing lists, stacks, queues, and trees will be emphasized. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC (CAN CSCI 24, UC, UC) (CC CMPS 24) General Education: (MJC-GE: D2)

CMPS 263—NETWORKING ESSENTIALS 3 Units
Prerequisite: Satisfactory completion of an introductory computer class.
Concepts of networking technologies. Includes design, media, hardware, standards, protocols, architectures, operations, administration, support, distributed networks, WANs, troubleshooting, and the internet. Designed to help individuals prepare for Microsoft Certification Exam #70-058. Hands-on computer assignments required. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPS 264—WINDOWS SERVER OS 3 Units
Formerly listed as "Windows 2000 Server"
Prerequisite: Satisfactory completion of CMPS 263 and 204
Technical study of the Windows Server operating system. Includes server hardware, installation, configuration, clients, management, network protocols, active directory and security, remote access and virtual private networks, interoperability, Internet and intranets, monitoring, tuning, and troubleshooting. Hands-on computer assignments required. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. (A-F or CR/NC) Transfer: CSU General Education: (MJC-GE: D)

CMPS 269 — NETWORK + CERTIFICATION TRAINING LAB 1 Unit
Concurrent Enrollment: CMPS 269
Recommended for Success: Satisfactory completion of any introductory computer course
Also offered as CMPET 269.
Network + is quickly becoming the standard for introductory-level industry certification. Designed for those interested in a career in network support, this vendor-neutral certification takes the student through installing and configuring a network client. This laboratory course along with the CMPS 263 course provides preparation for CompTIA's Network+ certification exam. Extensive network lab projects will be required. Field trips may be required. Laboratory. Materials fee required. Transfer: CSU

CMPS 270—UNDERSTANDING DATA COMMUNICATIONS 3 Units
How data communications systems and their various hardware and software components work. Includes communication between personal computer systems, database services, electronic bulletin boards, and the Internet. Hands-on computer assignments required. Lecture/Laboratory. Materials fee required. Transfer: CSU

CMPS 275—DATABASE MANAGEMENT SYSTEMS/MICROCOMPUTERS 3 Units
Introduction to database management systems (DBMS). Instruction on the design, setup and maintenance of a DBMS. Applications in inventory control, mailing lists, report construction and format, sorting and indexing operations, general file relationships and information retrieval. Hands-on experience using a microcomputer. Emphasis on Microsoft Access or similar DBMS software. Lecture/Laboratory. Materials fee required. Transfer: CSU

Continued Ø

COURSES OFFERED AT MJC 179
CMPS 276—INTRODUCTION TO DATA WAREHOUSING 3 Units
Formerly listed as: CMPS 276 Database Programming
Prerequisite: Satisfactory completion of CMPS 275 or 225 or 220
Introduction to data warehousing. Emphasizes heterogeneous database design, optimization and reporting. Use of a multi-vendor environment such as Oracle, SQL Server, MySQL, or PostgreSQL. Maximum two completions. (A-F or CR/NC) Material fee required. Transfer: CSU

CMPS 278—SPREADSHEET SOFTWARE 3 Units
Recommended for Success: Any introductory computer class.
Introduction to spreadsheet software. Spreadsheet analysis, design, testing, and documenting will be covered. Data entry, data management, graphing and keystroke macros will be emphasized. Applications in various areas will be explored with emphasis in business, professional and educational use. Hands-on experience using a microcomputer. Emphasis on Microsoft Excel or similar spreadsheet application. Lecture/Laboratory. Materials fee required. Transfer: CSU (CC CMPS 30)

CMPS 279—SPREADSHEET DESIGN AND PROGRAMMING 3 Units
Prerequisite: Satisfactory completion of CMPS 278
Uses current spreadsheet macro and command languages to build application programs for small businesses. Emphasizes system design concepts, structured programming strategies, and documentation techniques. Graphics and database management capabilities will be explored along with ancillary and related enhancement programs. Lecture. Laboratory arranged. Materials fee required. Transfer: CSU

CMPS 281—WINDOWS SECURITY 3 Units
Formerly listed as "Windows 2000 Security."
Prerequisite: Satisfactory completion of CMPS 264 and 206.
Technical study of security for Windows Networks. Includes assessing security risks, planning administrative access and user accounts, securing communication channels, securing file and print resources, secure access to remote users and offices, secure network access to Internet users, extending the network to partner organizations, designing a public key infrastructure, and developing a security plan. Hands-on computer assignments required. Field trips may be required. Two maximum completions. Materials fee required. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU

CMPS 289-WINDOWS DIRECTORY SERVICES 3 Units
Formerly listed as "Windows 2000 Directory Services."
Prerequisite: Satisfactory completion of CMPS 264 and 206.
Technical study of the Directory Services using tools such as LDAP and Active Directory. Includes the design and implementation of directory services, analyzing business requirements, information technology structures, software, hardware and network requirements, large and small scale directory services design, group policy design, design topology and locations, replication and disaster recovery. Hands-on computer assignments required. Field trips may be required. Two maximum completions. Lecture. Laboratory arranged. Materials fee required. (A-F or CR/NC) Transfer: CSU

CMPS 291—WINDOWS PROGRAMMING WITH VISUAL C++ 3 Units
Prerequisite: Satisfactory completion of CMPS 205, or CAN CSCI 22 course equivalent, or ACM CS-1 course equivalent.
Introduction to the Microsoft Visual C++ programming environment. Review of the C++ language and object-oriented programming concepts. Emphasis on using Visual C++ to build user applications, user interfaces, ActiveX applications, Internet programming, and advanced programming techniques. Hands-on computer programming projects will be required. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC

CMPS 294-COMPUTER SCIENCE FINAL PROJECT 3 Units
Recommended for Success: Completion of at least 18 units of required courses leading to the Associate Degree in Computer Science. Objectives of degree courses will be integrated into a final managed project advised by one or more Computer Science faculty. Effective project and team management will be emphasized. Field trips may be required. (A-F only) One completion allowed. Transfer: CSU

CMPS 298A,B,C—SPECIAL TOPICS IN COMPUTER SCIENCE 1,2,3 Units
Prerequisite: Varies with topic.
Participation in discussion, analysis, and evaluation of a special topic in computer science, microcomputer applications, and related technologies. Topic to be announced in class schedule. Twelve maximum units in any combination. Field trips may be required. Lecture. Materials fee required. Transfer: CSU

NON-CREDIT COURSES

CMPS 801—DATABASE MANAGEMENT SYSTEM WORKSHOP
An introduction to a database management system with hands-on instruction using a microcomputer. Students will define, create, and use their own database. Unlimited repeats. Lecture/Laboratory. Materials fee required.

CMPS 803—SPREADSHEET WORKSHOP
Introduction to the basic application of computers in the business environment. Specific instruction on use of the Electronic Spreadsheet. Unlimited repeats. Lecture/Laboratory. Materials fee required.

CMPS 805—WORD PROCESSING WORKSHOP
Introduction to the basic application of computers in the business environment. Specific instruction on use of word processing as an office automation tool. Exploration of benefits of word processing and its ability to expand productivity. Unlimited repeats. Lecture/Laboratory. Materials fee required.

COLSK
(College Skills)

COLSK 810—COLLEGE SKILLS DEVELOPMENT
Provides supervised computer laboratory experience for students who must use a computer laboratory to achieve the goals and objectives of a course in which they are enrolled. Enrollment takes place when students log-on to computers located in Modesto Junior College laboratories. Unlimited repeats. Laboratory

COLSK 820—COLLEGE SKILLS ENHANCEMENT
Supervised experience developing and implementing research methods and strategies to enhance classroom learning. Unlimited repeats. Laboratory

CORSC
(Correctional Science)

The Correctional Science Program offers an in-service corrections program designed to enhance the skills and knowledge of those employed in correctional agencies. Students directing their program toward an AA/AS degree should refer to the Administration of Justice program.

CORSC 323—BASIC CORRECTIONS OFFICER TRAINING COURSE 3 Units
Prerequisites: No felony convictions or weapon restrictions.
Professional standards, principles, and procedures in correctional management. Emphasis is on modern principles and procedures utilized in local detention facilities and institutions. Meets the training standards mandated by the California Department of Corrections for local detention facility personnel. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)
DAIND - WAREHOUSING/DRY AND REFRIGERATED  1 Unit

DANCE

For dance course descriptions, please see THETR (Theatre) or PEC (Physical Education: Co-Ed Activities).

DTAST - DENTAL ASSISTING

DTAST 360 — INTRODUCTION TO DENTAL ASSISTING  3 Units
Prerequisite: High school graduation or equivalent; proof of completion of CPR for the Professional Rescuer from the American Red Cross or the Health Care Provider CPR course from the American Heart Association, which must be valid through the end of the program.
An introduction to the profession of dentistry including the educational requirements, legal and ethical responsibilities of each member of the dental team. Discussion of current issues facing the dental profession. Overview of the career opportunities available to the registered dental assistant. Introduction to data gathering on dental patients, including oral diagnosis and treatment planning. Instruction in evaluating the medically compromised dental patient and preparing for medical emergencies. Field trips may be required. Lecture. Materials fee required (A-F Only) (Fall)

DTAST 361 — PREVENTION OF DISEASE TRANSMISSION
Prerequisite: High school graduation or equivalent; proof of completion of CPR for the Professional Rescuer from the American Red Cross or the Health Care Provider CPR course from the American Heart Association, which must be valid through the end of the program.
This course covers the knowledge and skills required for dental health care professionals to control, prevent the spread of disease, properly manage hazardous chemicals and maintain a safe dental office environment. Protocols established by the American Dental Association, Dental Board of California, California Dental Association, Center for Disease Control and Prevention, OSHA, and OSHA regulations with emphasis on Bloodborne Pathogen Standard and the Hazard Communication Standard. Field trips may be required. Lecture/Laboratory. Materials fee required (A-F Only) (Fall).

DTAST 362 — DENTAL SCIENCE  3 Units
Concurrent Enrollment: DTAST 360, 361, 363, 364 and 365
An overview of human anatomy and physiology with an emphasis on the head and neck. The knowledge of the structures of the head and oral cavity including identification of oral landmarks and to recognize whether any abnormalities or lesions exist. The study of tooth morphology and the relationship to form and function of the dentition. Recognize conditions that are variations of normal but not considered pathological. Field trips may be required. Lecture. Materials fee required (A-F Only) (Fall).

Continued
DTAST 363 – INTRODUCTION TO CLINICAL DENTISTRY 2 Units
Concurrent Enrollment: DTAST 360, 361, 362, 364 and 365
Introduction to dental assisting, role of the chairside assistant, basic skills for preparing the dental patient for treatment. Intraoral tasks delegated to qualified dental assistants which are related to operative dentistry. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) (Fall).

DTAST 364 – DENTAL MATERIALS 2 Units
Concurrent Enrollment: DTAST 360, 361, 362, 363 and 365
The dental assistant’s role in the manipulation of dental materials used in the oral environment. Instruction in the properties, characteristics, and manipulation of dental materials. Identification of government regulations and compliance with health and safety procedures when using dental materials. The study of drugs; their composition, uses, effects and contraindications as applied to the dental patient. Identification of laws regulating safe use of medication for the dental patient. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only)

DTAST 365 – THEORY OF DENTAL RADIOLOGY 3 Units
Prerequisite: High school graduation or equivalent; proof of completion of CPR for the Professional Rescuer from the American Red Cross or the Health Care Provider CPR course from the American Heart Association, which must be valid through the end of the program.
Introduction to the principles of dental radiology, basic concepts of x-ray generation, occupational safety procedures, materials and equipment used in producing dental x-rays. Theory of dental radiological techniques. DTAST 365 (Fall) and DTAST 369 (Spring) have been designed to meet the standards set forth by the Dental Board of California for the California Radiation Safety Licensee. Both courses must be completed with a grade of C or better in order to qualify for licensure. Field trips may be required. Lecture. Materials fee required. (A-F Only) (Fall)

DTAST 366 – ADMINISTRATIVE DENTAL ASSISTING 2 Units
Prerequisite: Satisfactory completion of DTAST 360, 361, 362, 363, 364 and 365
Concurrent Enrollment: DTAST 367, 368, 369 and 370
Basic dental office business concepts and procedures including communication skills, patient relations, record management, risk management and application of current technology. Employment skills necessary to obtain a position as an administrative dental assistant. Field trips may be required. Lecture. Materials fee required. (A-F Only) (Spring)

DTAST 367 – EXPANDED FUNCTIONS 2 Units
Prerequisite: Satisfactory completion of DTAST 360, 361, 362, 363, 364 and 365 with a C or better.
Concurrent Enrollment: DTAST 366, 368, 369 and 370.
Achievement of a healthy and functional dentition through the prevention of new and recurring diseases by the means of dental plaque control techniques. Procedures in which plaque and stains on the surface of the teeth are removed from the coronal surfaces. Specific intraoral tasks that are completed as a procedure delegated to the expanded function dental assistant. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) (Spring)

DTAST 368 – ADVANCED DENTAL ASSISTING 3 Units
Prerequisite: Satisfactory completion of DTAST 360, 361, 362, 363, 364 and 365 with a C or better.
Concurrent Enrollment: DTAST 366, 367, 369 and 370.
Advanced training in the areas of dental specialties including prosthodontics, endodontics, periodontics, pediatric dentistry, orthodontics and oral surgery. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) (Spring)

DTAST 369 – CLINICAL DENTAL RADIOLOGY 3 Units
Prerequisite: Satisfactory completion of DTAST 360, 361, 362, 363, 364 and 365 with a C or better.
Concurrent Enrollment: DTAST 366, 367, 368 and 370.
Applied advanced dental radiography techniques. Identification and interpretation of anatomical landmarks related to dental radiography, exposure, processing and evaluation techniques, and applied quality assurance techniques. Emphasis on infection control as applied to dental radiography, evaluation of the exposed and processed dental radiograph used for diagnostic interpretation using manual and automatic processing. DTAST 365 (Fall) and DTAST 369 (Spring) have been designed to meet the standards set forth by the Dental Board of California for the California Radiation Safety Licensure. Both courses must be completed with a grade of C or better in order to qualify for licensure. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) (Spring)

DTAST 370 – CLINICAL 1 6 Units
Prerequisite: Satisfactory completion of DTAST 360, 361, 362, 363, 364 and 365 with a C or better.
Concurrent Enrollment: DTAST 366, 367, 368, and 369.
Role of the chairside dental assistant; basic skills for preparing the dental patient for treatment including knowledge and skills essential to the functions of the registered dental assistant during clinical experience. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) (Spring)

DTAST 371 – CLINICAL 2 1 Unit
Prerequisite: Satisfactory completion of DTAST 366, 367, 368, 369 and 370 with a C or better.
Role of the chairside dental assistant; advanced skills for preparing the dental patient for treatment including knowledge and skills essential to the functions of the registered dental assistant. Field trips may be required. Laboratory. Materials fee required. (A-F Only) (Summer)

EASCI (Earth Science)

EASCI 161—EARTH SCIENCE 4 Units
Designed to bring together geology, oceanography, meteorology and astronomy areas with rocks and minerals, mountain building, earthquakes and volcanoes, sea floor spreading, ocean and shoreline features, planets and stars. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE:B1) (IGETC: 5A)

ECON (Economics)

ECON 101—ECONOMIC PRINCIPLES: MACROECONOMICS 3 Units
Recommended for Success: Satisfactory completion of High school algebra or MATH 70.
Introduction to macroeconomic theory in the context of a managed market economy. Covers basic concepts in economics, particularly those relating to macroeconomics. Concepts include scarcity, trade-offs, and opportunity costs. The role of government in the macroeconomy is defined and evaluated. Discusses business cycles, fiscal and monetary policy, international trade and finance. Lecture. Transfer: CSU, UC (CAN ECON 2) (CC ECON 10) General Education: (MJC-GE:B) (CSU-GE:D2) (IGETC: 4)
ECON 102—ECONOMIC PRINCIPLES: MICROECONOMICS
3 Units
Recommended for Success: Satisfactory completion of High school algebra or MATH 70.
An introductory course focusing on individual economic units. Topics include scarcity, opportunity costs, comparative advantage, supply, demand, elasticity, cost theory, price and output determination under various market structures and factor markets. Related topics such as international trade, public choice, income distribution, externalities and government regulation may be included. Lecture. Transfer: CSU, UC (CAN ECON 4) (CC ECON 11) General Education: (MJC-GE.B) (CSU-GE.D2) (IGETC: 4)

ECON 115—ECONOMIC HISTORY OF THE UNITED STATES 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Also offered as HIST 115.
Analysis of origins and development of business, labor and agriculture from the colonial period to the present. Emphasis on the federal government’s part in the development and regulation of business, labor and agriculture; the government’s role in the national economic process. Lecture. Transfer: CSU, UC General Education: (MJC-GE.B) (CSU-GE.D2) (IGETC: 4)

EHS
(Environmental Horticultural Science)
In this program the student will develop skills in plant recognition and use, nursery practices, and landscape design sufficient to enter the landscape or nursery business or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

EHS 50—BEGINNING ORNAMENTAL GARDENING 2 Units
Formerly listed as OH 50.
Preparation for the fundamentals of indoor and outdoor gardening, planting for patios and balconies, gardening in containers and simple landscaping. Designed for anyone interested in gardening, regardless of prior experience or size of garden. A series of 30 television programs supported by coordinating textual material and by additional printed materials that are optional. Field trips may be required.

EHS 51—ENVIRONMENTAL HORTICULTURE PREPARATION 3 Units
Formerly listed as OH 51 - Ornamental Horticulture Preparation.
A preparatory course in environmental horticulture, emphasis on nursery operation including structures and layout, seeding, transplanting, plotting, balling, canning, fertilizing, pest control, plant diseases and abnormalities. Preparation and use of propagating and planting mediums. Use and maintenance of common tools and equipment. Saturday field laboratory may be required. Field trips required. Lecture/Laboratory.

EHS 52, 53, 54—ORNAMENTAL HORTICULTURE PREPARATION—A, B, C 1 Unit  Each is one of a series of introductory courses that prepare students for gainful entry level employment in the nursery industry. Topics in this course include the Nursery and Landscape Industry, plant identification, the anatomy and physiology of plants and the requirements for plant growth (light, water, air, temperature, minerals, anchorage). Practical hands-on reinforcement will be augmented through practical work experience in a commercial nursery. Upon completion of the entire series of modules (EHS 52, 53, 54, 66, 67, 68), students will receive a Certificate of Completion. Modules are organized into six-week blocks. Field trips required. Lecture/Laboratory.

EHS 56—PREPARATORY PARK AND LANDSCAPE MAINTENANCE 3 Units
Formerly listed as OH 56.
Preparation for training in installation of plant materials and materials of parks and other planted areas and in skills required for students to qualify as technicians. Special interest directed to provide specific skills in such areas as forestry, highway maintenance, city, state and federal parks. Field trips required. Lecture/Laboratory.

EHS 58—PREPATORY FLORAL DESIGN 3 Units
Formerly listed as OH 58.
A preparatory course in commercial floristry teaching basic theory, techniques, and skills currently practiced in the floral design industry. Construction of basic floral products for resale; cut flower processing and industry sales practices. Field trips required. Lecture/Laboratory. Materials fee required.

EHS 61—PREPATORY ORNAMENTAL PLANT IDENTIFICATION 3 Units
Formerly listed as OH 61.
Preparation in the identification, growth habits, culture and ornamental use of house plants, vines, ground covers, annuals, perennials and shrubs adapted to climates of California central valleys. One Saturday laboratory required. Field trips required. Lecture/Laboratory.

EHS 62—PREPATORY ORNAMENTAL SHRUB AND TREE IDENTIFICATION 3 Units
Formerly listed as OH 62.
Preparation in the identification, growth habits, culture and use of large shrubs and trees adapted to climates of California central valleys. Field laboratories, including some on Saturdays, are required. Field trips required. Lecture/Laboratory.

EHS 65—INTRODUCTORY LANDSCAPE PLANNING AND DESIGN 3 Units
Formerly listed as OH 65.
Preparation in the planning and designing of landscaped areas. Emphasis on location of lawns, trees, shrubs, walks, driveways, patios, planters and other landscape structures for home and park. Field trips required. Lecture/Laboratory.

EHS 66, 67, 68—PREPATORY LANDSCAPE MANAGEMENT - A, B, C 1 Unit
One of a series of introductory courses that prepare students for gainful entry-level employment in the landscape maintenance industry. Topics in this course include: planting, care and selection of various plant materials utilized in landscapes, identifying and correcting abnormalities, and pruning and training techniques. Employee expectations of the landscape industry are also discussed. Practical hands-on reinforcement will be augmented through practical work experience in landscape settings. Upon completion of the entire series of modules (EHS 52, 53, 54, 66, 67, 68), students will receive a Certificate of Completion. Modules are organized into six-week blocks. Field trips required. Lecture/Laboratory.

EHS 100—ENVIRONMENTAL GARDENING 3 Units
Formerly listed as OH 100.
Plants used in the landscape; basic landscape design principles and plant propagation techniques. Emphasis on the place of horticultural crops in the economy and the role of plants in the environment. Discussion will center on the physiology of plants and their use and care. Emphasis will be on the practical application of horticultural principles. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

EHS 200—ORNAMENTAL GARDENING 2 Units
Formerly listed as OH 200.
Fundamentals of indoor and outdoor gardening, planting for patios and balconies, gardening in containers and simple landscaping. Designed for anyone interested in gardening, regardless of prior experience or size of garden. A series of 30 television programs supported by coordinating textual material and by additional printed materials that are optional. Field trips may be required. Transfer: CSU

EHS 201—PLANT IDENTIFICATION AND USAGE 3 Units
Recommended for Success: Satisfactory completion of EHS 210 and/or PLSC 200.
Formerly listed as EHS 201-Plant Materials and Usage 1. Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseriesmen & Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Tests Plant Lists. Covers those plants best observed and studied in the spring of the year. Field trips required. Will require Saturday labs. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

Continued...
EHS 202—PLANT IDENTIFICATION AND USAGE 2  3 Units
Recommended for Success: Satisfactory completion of EHS 210 and/or PLSC 200
Formerly listed as EHS 202-Plant Materials and Usage 2
Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurserymen & Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Tests Plant Lists. Covers those plants best observed and studied in the fall of the year. Field trips required. Will require Saturday labs. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

EHS 210—INTRODUCTION TO ENVIRONMENTAL HORTICULTURE  3 Units
Formerly listed as OH 210 - Introduction to Ornamental Horticulture.
A general course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and house plants, floral design, plant identification, turfgrass installation and care, and survey of career opportunities. Field trips required. Saturday labs required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 212—FLORICULTURE CROP PRODUCTION  3 Units
Recommended for Success: Satisfactory completion of EHS 201 and 202.
Formerly listed as OH 212.
Analysis, description and operation of greenhouses and other structures and facilities as they relate to floriculture. Included are: relationships of light, temperature, moisture, aeration, humidity, and fertility of floricultural crops; identification and investigation of major greenhouse grown crops including foliage plants, flowering potted plants, bedding plants, cut flowers, color and specialty crops; and planning and implementing several cropping plans for floriculture plants and products. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 215—LANDSCAPE DESIGN  3 Units
Recommended for Success: Satisfactory completion of EHS 201 and 202.
Formerly listed as OH 215 - Landscape Planning and Design.
The study and implementation of the art and science of landscape design, including principles of the design process, drafting, graphics, and presentation methods. Project emphasis is placed upon residential and small commercial sites. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 220—TURFGRASS MANAGEMENT  3 Units
Maintenance and management of turgrasses that include sports athletic fields, golf courses, parks, cemeteries, commercial, and residential lawns. Discussion will focus on identification, installation, cultural requirements and maintenance practices. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 235—PLANT PROPAGATION/PRODUCTION  3 Units
Recommended for Success: Satisfactory completion of PLSC 200 and/or EHS 210.
Also offered as PLSC 235.
Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertlizing, plant pest and disease control, structures and site layout. Preparation and use of propagating and planting mediums. Use and maintenance of common tools and equipment. Regulations pertaining to plant production. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 250—LANDSCAPE IRRIGATION  3 Units
Recommended for Success: Satisfactory completion of EHS 210.
Formerly listed as OH 250 - Urban Irrigation Practices.
Prepares students to design, install and maintain a water efficient landscape irrigation system. Topics include water supply, basic hydraulics, component identification and terminology, system layout, pipe sizing; types of heads, valves, controllers. Field trips may be required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 270—LANDSCAPE MAINTENANCE  3 Units
Recommended for Success: Satisfactory completion of EHS 210.
Formerly listed as OH 270 - Park and Landscape Maintenance.
Enhancing the function and aesthetic value of public and private landscapes by applying appropriate maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 275—LANDSCAPE CONSTRUCTION AND INSTALLATION  3 Units
Recommended for Success: Satisfactory completion of EHS 210.
Formerly listed as OH 278 - Landscape Engineering.
Fundamentals of landscape construction, including soil preparation, paving and construction materials, hand and power tool use, turf and plant installation, plan reading, estimating and bidding preparation; also covers local codes and state requirements and prepares students to pass the C-27 Landscaping Contractor’s License exam. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

EHS 280—BEGINNING FLORAL DESIGN  3 Units
Formerly listed as OH 280.
Introduction to the fundamentals of theory, techniques and skills currently practiced in the floral industry. Includes applied art principles, cut flower care, handling practices, proper use of florist tools and materials, pricing of floral products and use of current floral business technology. Includes constructing corsages, floral arrangements, foliage plant items, which meet floral industry standards. Field trips required. Two maximum completions. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

EHS 281—ADVANCED FLORAL DESIGN  3 Units
Prerequisite: Satisfactory completion of EHS 280
Formerly listed as OH 281 - Commercial Floristry Advanced Floral Design
Advanced floral design theory, techniques and skills in the floral industry, including wedding, sympathy, party, holiday, high style and advanced floral designs. Techniques include working with the customer, consultations, pricing and use of computers and other business machines. Construction and servicing of weddings, funerals, party and holiday floral displays. Field trips required. Two maximum completions. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

EHS 282—FLORAL SHOP MANAGEMENT  4 Units
Prerequisites: Satisfactory completion of EHS 280 and EHS 281.
Formerly listed as OH 282.
Provides insight into the business and management skills needed to run a successful floral shop. Flower shop involvement required. Field trips required. Two maximum completions. Lecture/Laboratory/Other. (A-F Only) Materials fee required. Transfer: CSU

EHS 291 - ENVIRONMENTAL HORTICULTURE SCIENCE TEACHING STRATEGIES  2 Units
Exploration of science curriculum standards as they relate to teaching strategies applied in the classroom. Field trips required. Two maximum completions. Lecture. Transfer: CSU

EHS 292 - ENVIRONMENTAL HORTICULTURE SCIENCE TEACHING STRATEGIES - FIELD EXPERIENCE  1 Unit
Application of environmental horticulture science teaching strategies. Construction of an action plan incorporating environmental horticulture science curriculum in an applied setting. Field trips required. Two maximum completions. Laboratory. Transfer: CSU

EHS 300—COMMERCIAL FLORISTRY PRACTICUM  4 Units
Prerequisites: Satisfactory completion of EHS 280, 281, 282.
Recommended for Success: Satisfactory completion of EHS 210, 212.
Formerly listed as OH 383.
Involvement in all areas of, and taught in, a retail flower shop. Includes principles of small business management, including personal, physical plant and financial management; floral design, construction, and pricing; floral orders and wire services; floral delivery; purchasing, marketing and inventory control. Two maximum completions. Laboratory/Other Conjunction with practicing flower shop manager - MJC nursery or shop site. Field trips required. (A-F Only)

EHS 390—NURSERY INDUSTRY SKILLS  1 Unit
Formerly listed as OH 390.
A repeatable short course in Ornamental Horticulture that covers all skill aspects of the wholesale and retail nursery business. Also included are excerpts from plant identification, turfs, and landscape design. Six maximum completions. Field trips may be required. Lecture. (A-F Only)
ELTEC (Electronics Technology)

ELTEC 205—ELECTRONICS FABRICATION AND ASSEMBLY TECHNIQUES 3 Units
Introduction to current fabrication and assembly techniques used in the electronics industry. Manual and automated techniques used in component manufacturing, circuit assembly, and system integration. Materials fee required. Lecture/Laboratory. Transfer: CSU

ELTEC 208—THE WORLD OF ELECTRICITY AND ELECTRONICS 3 Units
Recommended for Success: Satisfactory completion of MATH 20
Also offered as INTEC 208.
An overview of electrical and electronic phenomena as applied to common consumer and industrial devices. The course examines the physical nature of electricity and magnetism and the application of the scientific method. The historical development and the socioeconomic aspects of the "electronic age" are examined. Lecture/Laboratory. Materials fee required. Transfer: CSU. General Education: (MUC-GE; A)

ELTEC 212—DIGITAL PRINCIPLES AND CIRCUITS 3 Units
Prerequisite: Satisfactory completion of MATH 70 or concurrent enrollment.
Also offered as CMPET 212.
Introduction to digital circuits. Use and application of digital components in electronic devices and computers. Interfacing input and output devices to digital circuits. Introduction to programmable logic devices. Materials fee required. Lecture/Laboratory. Transfer: CSU. General Education: (MUC-GE; A)

ELTEC 213—INTRODUCTION TO SEMICONDUCTOR DEVICES AND CIRCUITS 4 Units
Introduction to semiconductor devices and circuits. Use of diodes, transistors, operational amplifiers, thyristors in electronic circuits. Materials fee required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ELTEC 214—MICROPROCESSOR PROGRAMMING AND INTERFACING 4 Units
Prerequisite: Satisfactory completion of ELTEC 212 or CMPET 212
Also offered as CMPET 214.
Introduction to the structure and operation of microprocessors as controllers for today's electronic devices and systems. Basic microprocessor hardware including memories, registers, counters, input/output ports, decoders, and arithmetic logic using the popular PIC RISC microcontroller. Machine language simulation and development on personal computers. Emphasis on interfacing to electronic hardware. Materials fee required. Lecture/Laboratory. (A-F Only) Transfer: CSU

ELTEC 221—INSTRUMENTATION DEVICES AND SYSTEMS 3 Units
Prerequisite: Satisfactory completion of ELTEC 208.
Also offered as INTEC 221.
An introduction to industrial instrumentation devices and systems. The principles and operation of mechanical and electrical transducers. Analysis of industrial instrumentation systems. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

ELTEC 223—INDUSTRIAL ELECTRICAL COMPONENTS AND CONTROL DEVICES 3 Units
Also offered as INTEC 223.
An introduction to common components and control devices found in the manufacturing and processing industry. Content includes basic terminology, component identification, manufacturer's specifications, and maintenance procedures for the components and devices. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

ELTEC 226—MOTORS, CONTROLS AND CONTROLLERS 3 Units
Prerequisite: Satisfactory completion of ELTEC/INTEC 208.
Also offered as INTEC 226.
Introduction to AC and DC motors and control systems. Emphasis on system troubleshooting. Use and programming of AC and DC systems. Lecture/Laboratory. (A-F Only) One completion allowed. Transfer: CSU

ELTEC 232—INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS 2 Units
Also offered as CMPET 232.
Introduction to the basic concepts of programmable logic controllers. Installation, programming, maintaining, and troubleshooting of microprocessor compatible logic controller systems. Lecture/Laboratory. Transfer: CSU

ELTEC 234—ADVANCED TOPICS IN PROGRAMMABLE LOGIC CONTROLLERS 2 Units
Recommended for Success: Satisfactory completion of ELTEC 232 or CMPET 232 or equivalent course.
Also offered as CMPET 234.
Advanced study of programmable logic controllers and complete controller systems. Emphasis on component selection, design, and operation of industry-like controller systems. Lecture/Laboratory. Transfer: CSU

ELTEC 265—TROUBLESHOOTING TECHNIQUES 1 Unit
Also offered as INTEC 265.
Common troubleshooting methodologies used in manufacturing today. One-solution and multiple-solution problems commonly found in everyday life through industrial processes. Prepares students to actively solve problems in personal and professional life. Lecture. Transfer: CSU

ELTEC 320—ELECTRICAL SAFETY 1 Unit

EMS (Emergency Medical Service)

EMS 350—FIRST RESPONDER WITH HEALTHCARE PROVIDER CPR 3 Units
An entry-level course designed for firefighters and other emergency workers who will respond to medical emergencies ahead of ambulance transportation. Focuses on stabilization of ill or injured patients prior to arrival of more advanced life support. This course meets the basic requirements for most volunteer fire agencies as well as some paid fire departments. Unlimited completions. Lecture/Laboratory.

EMS 380—BASIC ECG INTERPRETATION AND INTRODUCTION TO CARDIAC CARE 3 Units
Recommended for Success: Understand basic medical terminology. Designed for students who have had little or no formal training in arrhythmia diagnosis. Emphasis will be on diagnosing the major and life-threatening arrhythmias incorporating patient assessment and treatment. Field trips may be required. One completion allowed. Lecture. (A-F or CR/NC) Transfer: (CC EMS 20)

EMS 389—EMERGENCY MEDICAL TECHNICIAN 1 LAB ½ Unit
Prerequisite: Satisfactory completion of EMS 350 or equivalent.
Preparation in a laboratory setting for certification as an Emergency Medical Technician 1. Training in basic life support emergency care as mandated by the California Emergency Medical Services Authority. (A-F Only). Multiple completions allowed.

EMS 390—EMERGENCY MEDICAL TECHNICIAN 1 6 Units
Formerly listed as EMT 390
Prerequisite: Satisfactory completion of HE 101 or EMS 350; Valid CPR card
Prepares students for certification as an Emergency Medical Technician 1. Classroom instruction involves laboratory and clinical experience. Trained to provide emergency care (basic life support level) as an emergency medical service responder (police, fire, ambulance, ranger, rescue squad or industrial emergency operations). Lecture/Laboratory. Materials fee required (for infection control items and/or malpractice liability insurance). (A-F Only)
ENGL (English)

Placement in English Courses
For students who have not already completed an English composition course at Modesto Junior College or at any other college, placement in English 49, 50, and 101 requires the English Placement Examination.

PLACEMENT REQUIREMENTS FOR ENGLISH COURSES

| English 50: | Placement by examination or completion of English 49 with a grade of C or better. |
| English 101: | Placement by examination or completion of English 50 with a grade of C or better. |
| English 102: | Completion of English 101 with a grade of C or better. |
| English 103: | Completion of English 101 with a grade of C or better. |

ENGL 25—COMPUTER-ASSISTED ESL WRITER’S WORKSHOP 1 Unit
Non-degree course. Recommended for Success: Satisfactory completion of ESL 45 and/or enrollment in ESL 46, 47, 48, 49.
Formerly listed as ENGL 25A.
Independent study for any upper level ESL student who needs supplemental instruction in vocabulary, grammar, writing techniques, and proofreading. Students may enroll any time during the semester. Two maximum completions. Laboratory.

ENGL 26—COMPUTER-ASSISTED WRITER’S WORKSHOP 1 Unit
Non-degree course. Recommended for Success: Satisfactory completion of ESL courses and/or enrollment in ENGL 49 or 50 or 101.
Formerly listed as ENGL 25B.
Independent study for any student who needs supplemental instruction in focus, organization, development, voice, audience, and MLA convention, from sentence level to essay length prose. Student may enroll any time during semester. Two maximum completions. Laboratory.

ENGL 44—FUNDAMENTALS OF GRAMMAR 1 Unit
Non-degree course
A computer-based and workshop-based course for student who want to review English. Offered in the Center for Learning Assistance. Orientation required. Recommended for students who need preparation to succeed in English 49. Open-entry/Open-exit. (CR/NC Only)

ENGL 46—COMPUTER-ASSISTED FUNDAMENTALS OF WRITING 1 Unit
Recommended for Success: Concurrent enrollment in ENGL 44 and READ 45.
A computer-based course in the fundamentals of writing, focusing on basic written expression. Students must complete self-paced modules on selected topics. Students must log in for a minimum of three hours each week at the Center for Learning Assistance, complete the required writing exercises and computer-based modules, and meet with the Center for Learning Assistance instructor and tutors at specified times to receive credit for the course. Recommended for students whose English placement scores fall below entrance into ENGL 50. Open entry/open exit. (CR/NC Only).

ENGL 48—GRAMMAR REVIEW 1 Unit

ENGL 49—BASIC ENGLISH SKILLS 5 Units
Non-degree course. Recommended for Success: Concurrent enrollment in READ for or higher level reading class.
Fundamentals of writing. Students will write and receive individual guidance on specific skills. Emphasis on improving writing fluency, developing sentence structure, and learning to edit for spelling, punctuation, and usage. Credit in this course may not be used to satisfy English requirements for graduation from Modesto Junior College. Field trips may be required. Lecture. Transfer: (CC ENGL 250)

ENGL 50—BASIC COMPOSITION AND READING 5 Units
Prerequisite: Recommendation of the English Placement Examination or satisfactory completion of ENGL 49; or ESL 47 and 48.
Practice in reading intelligently and writing effectively. The course focuses equally on improving critical reading and writing skills. Meets English composition requirements for graduation but does not meet the English requirements for college or university transfer. Field trips may be required. Maximum one completion. Lecture. (A-F or CR/NC) Transfer: (CC ENGL 151) General Education: (MJC-GE: D1)

ENGL 90—WRITING THE RESEARCH PAPER 1 Unit
Prerequisite: Eligibility for English 101 or concurrent enrollment in English 50.
Practice in the fundamentals of research and the writing of the research paper in both MLA and APA formats. Lecture.

ENGL 101—COMPOSITION AND READING 3 Units
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC English assessment process.
Recommended for success: Satisfactory completion of READ 184 or Reading Graduation Competency requirements.
Practice in reading intelligently and writing effectively. The main focus is on improving writing with emphasis on exposition, argument, research, and information competency. Students must write a minimum of 8000 words, at least 6000 of which will be in papers that have a developed thesis. A 2000-3000 word research paper using current MLA guidelines is required. Field trips may be required. Lecture. Transfer: CSU, UC (CAN ENGL 2, CAN ENGL SEQ A) (CC ENGL 1A) General Education: (MJC-GE: D2) (CSU-GE: A2) (IGETC:1A)

ENGL 102—ADVANCED COMPOSITION AND INTRODUCTION TO LITERATURE 3 Units
Prerequisite: Satisfactory completion of ENGL 101.
Intended primarily for university transfer students, but open to any qualified student. Advanced composition with an introduction to methods used in the analysis of literary texts. Field trips may be required. Lecture. Transfer: CSU, UC (CAN ENGL 4, CAN ENGL SEQ A, CSU, UC) (CC ENGL 1B) General Education: (MJC-GE: C2)

ENGL 103—ADVANCED COMPOSITION AND CRITICAL THINKING 3 Units
Prerequisite: Satisfactory completion of ENGL 101
Advanced composition course that focuses on critical inquiry and the techniques and principles of effective writing argument. Examines style, diction, inference, evidence, reasoning, and rhetorical strategies in written argument. Field trips may be required. Lecture. Transfer: CSU, UC (CC ENGL 1C) General Education: (MJC-GE: D2) (CSU-
ENGL 105—CREATIVE WRITING: POETRY 3 Units
Prerequisite: Satisfactory completion of ENGL 101
Instruction and practice in writing poetry. Two maximum completions. Lecture. (MJC Activities) Transfer: CSU, UC General Education: (CSU-GE: C2)

ENGL 106—CREATIVE WRITING: SHORT FICTION 3 Units
Prerequisite: Satisfactory completion of ENGL 101
Instruction and practice in writing shorter forms of fiction. Two maximum completions. Lecture. (MJC Activities) Transfer: CSU, UC (CAN ENGL 6) (CC ENGL 10) General Education: (CSU-GE: C2)

ENGL 108—CREATIVE WRITING: AUTOBIOGRAPHY 3 Units
Prerequisite: Satisfactory completion of ENGL 101
Instruction and practice in the writing of an autobiography. Two maximum completions. Lecture. (A-F or CR/NC) (MJC Activities) Transfer: CSU

ENGL 109—CREATIVE WRITING: SCRIPTWRITING 3 Units
Formerly listed as "Scriptwriting: Dramatic Writing for Film, Television, and Theater" Prerequisite: Satisfactory completion of ENGL 101
Instruction and practice in the writing of dramatic scripts for film, television, and theater. Field trips may be required. Two maximum completions. Lecture. (A-F OR CR/NC) (MJC Activities) Transfer: CSU, UC

ENGL 112—INTRODUCTION TO THE NOVEL AND SHORT STORY 3 Units
Recommended for Success: Satisfactory completion of ENGL 101. Prerequisite: ENGL 101 eligibility
Introduction to the novel and short story with emphasis on intelligent reading, analysis and discussion of a range of fiction representing various types and traditions. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC (CAN ENGL 18) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 114—INTRODUCTION TO POETRY 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 Prerequisite: ENGL 101 eligibility
Analysis and discussion of poetry. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC (CAN ENGL 20) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 116—INTRODUCTION TO DRAMA 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 Prerequisite: ENGL 101 eligibility.
Analysis and discussion of selected plays from classical Greek period to present. Field trips may be required. One completion allowed. Lecture. (A-F or CR/NC) Transfer: CSU, UC (CAN ENGL 22) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 118—WRITING TECHNIQUES FOR THE WORLD WIDE WEB 3 Units
Prerequisite: Eligibility for ENGL 101
Recommended for Success: Satisfactory completion of READ 184 or Reading Graduation Competency satisfied. Satisfactory completion of CMPGR 263. Introduction to writing for the world wide web through rhetorical study and practical experience. Emphasizes conscientious reading of on-line materials and excellence in on-line writing. Intended for students who are interested in on-line reading and writing beyond the casual use of the web for browsing or who would like some preparation for positions that may demand web writing. Lecture. Field trips may be required. Not offered every semester. Transfer: CSU

ENGL 131—INTRODUCTION TO WORLD LITERATURE 3 Units TO 1500
Recommended for Success: Satisfactory completion of ENGL 101 Prerequisite: ENGL 101 eligibility.
Classical and medieval literature including historical backgrounds and reading in Asian, Middle Eastern, and European cultures. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 132—INTRODUCTION TO WORLD LITERATURE FROM 1500 TO PRESENT 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 Prerequisite: ENGL 101 Eligibility
ENGL 131 is not a prerequisite.
ENGL 132 is a continuation of English 131, reading from the Renaissance to contemporary literature of Asian, Middle Eastern, European, and Latin American cultures. Note: Students do not have to have taken ENGL 131 to enroll in ENGL 132. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 135—AMERICAN LITERATURE: TO 1850 3 Units
Prerequisite: ENGL 101 eligibility
Survey of American literature from its beginning to mid-nineteenth century. Lecture. Field trips may be required. One completion allowed. (A-F or CR/NC) Transfer: CSU, UC (CAN ENGL 14, CAN ENGL SEQ C) (CC ENGL 17) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 136—AMERICAN LITERATURE: 1850 TO THE PRESENT 3 Units
Prerequisite: ENGL 101 eligibility
ENGL 135 is not a prerequisite.
Survey of American literature from mid-nineteenth century to the present. Lecture. One completion allowed. Field trips may be required. (A-F or CR/NC) Transfer: CSU, UC (CAN ENGL 16, CAN ENGLISH SEQ C) (CC ENGL 18) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 137—SURVEY OF ENGLISH LITERATURE TO THE 18TH CENTURY 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 and 102. Survey of English literary history from the Anglo-Saxons to the 18th century with detailed study of the writings of Chaucer, Marlowe, Spenser, Shakespeare, Milton, and others. Lecture. Transfer: CSU, UC (CAN ENGL 8, CAN ENGL SEQ B) (CC ENGL 48) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 138—SURVEY OF ENGLISH LITERATURE TO THE 18TH CENTURY TO THE PRESENT 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 and 102. Literary history of the 18th and 19th centuries with detailed study of the writings of Pope, Wordsworth, Coleridge, Byron, Keats, Shelley, Tennyson, and others. Lecture. Transfer: CSU, UC (CAN ENGL 10, CAN ENGL SEQ B) (CC ENGL 47) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 151—FOLKLORE 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Interrelationships of people throughout the world through discussion and analysis of our folk heritage. Folk themes and symbolism in literature also will be discussed. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE:C) (CSU-GE: C2) (IGETC: 3B)

ENGL 156—THE BIBLE AS LITERATURE: THE HEBREW CANON AND INTERTESTAMENTAL WRITINGS 3 Units
Recommended for success: Eligibility for ENGL 101
Literary criticism and an appreciation of historical background and textual transmission of selected books of the Hebrew Bible (Old Testament) and Intertestamental Writings (also known as the Apocrypha) in translation. Lecture. Field trips may be required. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 157—THE BIBLE AS LITERATURE: THE NEW TESTAMENT 3 Units
Recommended for success: Eligibility for ENGL 101
Literary criticism and an appreciation of historical background and textual transmission of selected books of the New Testament. Lecture. Field trips may be required. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

Continued
ENGL 161—FILM APPRECIATION 3 Units
An introductory course in film appreciation, emphasizing the development of sensitivity and critical judgment in audience response to film. Field trips may be required. Lecture/Viewing. Transfer: CSU, UC (CC ENGL 11) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3B)

ENGL 162—HISTORY OF CINEMA 3 Units
Examines the international development of cinema from 1895 to the present. Covers a wide range of both American and foreign films and offers a broad survey of major movements, styles, and genres in the history of motion pictures. Focuses specifically on the social, historical, technical, and technological factors that have shaped the film industry and the films produced by it. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 163—INTRODUCTION TO SHAKESPEARE 3 Units
Prerequisite: ENGL 101 eligibility
Recommended for Success: Successful completion of ENGL 101
A reading of six to nine representative comedies, histories, and tragedies; designed to introduce the student to Shakespeare’s art. Field trips may be required. One completion allowed. Lecture. (A-F or CR/NC) Transfer: CSU, UC (CC ENGL 50) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 168—ADOLESCENT LITERATURE 3 Units
Prerequisite: ENGL 101 eligibility
Recommended for Success: Successful completion of ENGL 101
Introduction to literature for adolescents (ages 9-16). Includes types of literature, and forms drawn from a variety of ethnic and cultural sources, ways to promote interest, themes, and criteria for choosing materials. Field trips may be required. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU General Education: (MJC-GE: C) (CSU-GE: C2) General Education: (MJC-GE: C) (CSU-GE: C2) General Education: (MJC-GE: C) (CSU-GE: C2)

ENGL 169—CHILDREN’S LITERATURE 3 Units
Prerequisite: ENGL 101 eligibility
Recommended for Success: Successful completion of ENGL 101
Introduction to literature for children. Includes types of literature and forms drawn from a variety of ethnic and cultural sources, storytelling, ways to promote interest, and criteria for choosing materials. Lecture. One completion allowed. Field trips may be required. Transfer: CSU General Education: (MJC-GE: C) (CSU-GE: C2)

ENGL 171—INTRODUCTION TO AFRICAN-AMERICAN LITERATURE 3 Units
Recommended for Success: Successful completion of ENGL 101
An introduction to the contributions of black Americans in American literature from the slave era through the present. The emphasis will be upon a chronological study of major works including the following: slave narratives, folk tales, poetry, short story, novel and drama. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) General Education: (MJC-GE: C) (CSU-GE: C2)

ENGL 172—INTRODUCTION TO CHICANO LITERATURE 3 Units
Recommended for Success: Successful completion of English 101
Survey of Chicano literature in English from its beginnings to its contemporary form. Emphasis on influences that have shaped the literature and critical skills needed to evaluate and appreciate Chicano poetry, theater, fiction, and essay. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 173—INTRODUCTION TO LATIN AMERICAN LITERATURE 3 Units
Prerequisite: ENGL 101 eligibility
Recommended for Success: Successful completion of English 101
An introduction to Latin American literature from its Colonial Period to the present. Emphasis on chronological survey of major works of Latin American writers studied in English translation and selected from the following: indigenous legends, chronicles, epistles, poetry, novel, drama, and short story. Field trips may be required. Lecture. One completion allowed. Field trips may be required. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 174—INTRODUCTION TO MODERN ASIAN LITERATURE 3 Units
Recommended for Success: Successful completion of ENGL 101
An introductory course on Asian literature from the 19th century to the present in its English translation. Emphasis on major works that have made an impact on western literary tradition and the social, cultural, and historical forces that have shaped these works. Lecture. One completion allowed. Field trips may be required. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 175—WOMEN IN LITERATURE 3 Units
Recommended for Success: Successful completion of ENGL 101
An introduction to literature by and about women, including an historical overview, archetypes, stereotypes, cultural impediments to women’s writing, methods of criticism, and recent literary achievements. Lecture. Field trips may be required. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 176—INTRODUCTION TO MEXICAN LITERATURE 3 Units
Recommended for Success: Successful completion of ENGL 101
Introduction to Mexican literature from its Colonial Period to the present. Emphasis on chronological survey of major works of Mexican writers studied in English translation and selected from the following: chronicles, epistles, poetry, novel, drama, and short story. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2)

ENGL 178—MASS MEDIA AND THE PUBLIC 3 Units
A non-technical course for the consumer of the mass media dealing with the way information is gathered and processed by the mass media, and the history of the mass media in the United States, theories of its role in society, and current problems and criticisms. Field trips may be required. Lecture. Transfer: CSU, UC (CAN JOUR 4)

ENGL 179—INTRODUCTION TO NATIVE AMERICAN LITERATURE, MYTHOLOGY, AND THE ORAL TRADITION 3 Units
Recommended for Success: Successful completion of ENGL 101
Study of traditional and contemporary Native American literature from a variety of nations, including some local Native American peoples. Traditional chronicle, oral tale, and myth. Relationship of contemporary writing to earlier cultural heritage. Place of Native American literature in the American literary tradition and canon. Close reading of contemporary autobiography, novels, short fiction, and poetry. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 183—INTRODUCTION TO TUTORING COMPOSITION 2 Units
Prerequisite: Successful completion of ENGL 101
Introductory course in the tutoring process of English composition. Students will learn strategies for tutoring developmental to advanced writers. Specific focus will be on techniques for improvement of fluency, structure, revision, proofreading, and reading. Intended for students selected as tutors for the Division of Literature and Language Arts’ learning centers. Lecture. (A-F Only) Transfer: CSU

ENGL 184—ADVANCED TUTORING OF COMPOSITION 2 Units
Prerequisite: Successful completion of ENGL 183
Course in the advanced techniques of tutoring processes of English composition. Students will further develop strategies for tutoring developmental to advanced writers. Specific focus will be on advanced techniques for improvement of fluency, structure, revision, proofreading, and reading and on the study of timely issues affecting tutors and students. Intended for students selected as tutors for the Division of Literature and Language Arts’ learning centers. Field trips may be required. Lecture. (A-F Only) Transfer: CSU

ENGR (Engineering)

ENGR 100—INTRODUCTION TO ENGINEERING 1 Unit
AND ARCHITECTURE
Also offered as ARCH 100
Introduction to the vocational and academic opportunities at MJC with special emphasis on engineering, architecture and related technologies. Topics include models of student success, characteristics of the professions, development of educational plans, Associate Degree Requirements, importance of teamwork, and self assessment. Activities include field trips, practice labs, and presentations by MJC counselors and practicing engineers and architects. Lecture. Materials fee may be required. (Fall) Transfer: CSU, UC
ENGR 101—INTRODUCTION TO SURVEYING AND TOPOGRAPHY 3 Units
Prerequisite: Satisfactory completion of MATH 115 or MATH 122.
Introduction to principles and techniques for measurement of distances, directions, and angles. Additional topics include measurement errors, traverse computations, global positioning systems, Total Station, topographic surveys, and building and curve layout. Lecture/Laboratory. Field trips may be required. Transfer: CSU, UC

ENGR 121—INTRODUCTION TO ENGINEERING DRAFTING 4 Units AND DESIGN
Development of sketching and computer-assisted drafting (CAD) skills for engineering drafting. Topics include geometric construction, sketching, solids modeling, orthographic projection, sectional drawings, auxiliary views, dimensioning, tolerancing, threaded fasteners, and working drawings. Lecture/Laboratory. Field trips may be required. Transfer: CSU, UC

ENGR 127—ENGINEERING DESIGN AND GRAPHICS 4 Units
Recommended for Success: Previous drafting and CAD experience or ENGR 121 and Satisfactory completion of MATH 90 or equivalent.
Introduction to engineering design. Graphical solution of problems involving points, lines, and planes in three-dimensional space. Graphical representation and analysis of various types of engineering data. Solids modeling and analysis. Design project required. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC (CAN ENGR 2)

ENGR 130—PROPERTIES OF MATERIALS 3 Units
Prerequisite: Satisfactory completion of CHEM 101 and PHYS 101.
Investigation of the internal structure of metals, ceramics, polymers, composites and semiconducting materials and their effect on mechanical, electrical, magnetic and thermal properties. Laboratory investigations include metallography, tensile/compression and heat treatment analysis. Field trips required. Lecture/Laboratory. Materials fee required. (Spring) Transfer: CSU, UC (CAN ENGR 4)

ENGR 135—ENGINEERING MECHANICS — STATICS 3 Units
Prerequisites: Satisfactory completion of PHYS 101 and MATH 172.
Statics of particles and rigid bodies; vector notation; analytical solutions of two- and three-dimensional structures in equilibrium; centroids, center of gravity, moments of inertia and friction. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC (CAN ENGR 8)

ENGR 140—INTRODUCTION TO CIRCUIT ANALYSIS (WITHOUT LAB) 3 Units
Prerequisites: Satisfactory completion of MATH 173 and PHYS 102 or equivalent.
Concurrent Enrollment: PHYS 103 and MATH 174
Direct-current and alternating-current circuit analysis; steady and transient phenomena in RLC circuits; circuit theorems; single-phase and polyphase alternating-current circuits. Field trips may be required. Lecture/Discussion. (Spring) Materials fee may be required. Transfer: CSU, UC (CAN ENGR 12)

ENGR 141—INTRODUCTION TO CIRCUIT ANALYSIS (WITH LAB) 4 Units
Prerequisites: Satisfactory completion of MATH 173 and PHYS 102 or equivalent.
Concurrent Enrollment: PHYS 103 and MATH 174
Direct-current and alternating-current circuit analysis; steady and transient phenomena in RLC circuits; circuit theorems; single-phase and polyphase alternating-current circuits and laboratory demonstrations/exercises emphasizing circuit construction analysis and instrumentation. Field trips may be required. Lecture/Laboratory/Discussion. Materials fee may be required. (Spring) Transfer: CSU, UC (CAN ENGR 6)

ENGR 220—BASIC ENGINEERING DRAFTING 1 2 Units
Introduction to engineering drafting utilizing freehand sketching and computer-assisted drafting (CAD). Topics include geometric construction, pictorial sketching, orthographic projection and sectional drawings. ENGR 220 and 221 are the two-semester equivalent of ENGR 121. Lecture/Laboratory. Materials fee may be required. Transfer: CSU

ENGR 221—BASIC ENGINEERING DRAFTING 2 2 Units
Prerequisite: Satisfactory completion of ENGR 220.
Continuation of ENGR 220 to include dimensioning, tolerancing, threaded fasteners, and working drawings. ENGR 220 and 221 are the two-semester equivalent of ENGR 121. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, Spring

ENGR 230—FIELD SURVEYING 2 Units
Recommended for Success: Satisfactory completion of Math 70 or AG 280. Also offered as AGM 230.
Selection, care and checking of tapes, levels, GPS and laser systems. Introduction to total station care and use. Field observations, note taking and office computations; use of surveying instruments and equipment for land measurement and mapping; practice in differential, profile, and contour leveling; horizontal angles, traverses, and construction problems used in public lands surveying, legal descriptions, and county records. Lecture/Laboratory. (A-F Only) Field trips required. Transfer: CSU

ENGTC (Engineering Technology)

The Engineering Technology program prepares students to transfer to four-year college and university programs. It is for students interested in learning the more pragmatic and applications aspects of engineering, and is directed to the application of established scientific and engineering knowledge and methods. Consult with an engineering advisor for selection of courses.

ENGT 210—INTRODUCTION TO COMPUTER-ASSISTED DRAFTING 1 Unit
Introduction to the use of the computer as a drafting tool. Topics include basic drawing, editing and utility commands of AUTOCAD. Three maximum completions. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU (CC DRAFT 50A)

ENGT 211—INTERMEDIATE TOPICS IN COMPUTER-ASSISTED DRAFTING 1 Unit
Prerequisite: Previous experience with PC based CAD or ENGTC 210.
Continuation of ENGT 210 to include topics on the use of layers, blocks, inserts, attributes, dimensioning, three-dimensional applications, and system management. Three maximum completions. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU (CC DRAFT 50A)

ENGT 212—ADVANCED TOPICS IN COMPUTER-ASSISTED DRAFTING 1 Unit
Prerequisite: Satisfactory completion of ENGT 211, or previous experience with PC based CAD.
Advanced topics in computer-assisted drafting including solids modeling, file management, and customization. Three maximum completions. Field trips may be required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU

ENGT 214—3D CAD APPLICATIONS FOR ARCHITECTS AND ENGINEERS 1 Unit
Recommended for Success: Previous CAD experience, preferably AutoCad.
Introduction to the use of the computer for 3D imaging. Topics include: creating wireframe and surface models from 2D data, creating 3D images and walk-through animations, and efficient techniques for use of software and hardware. Field trips may be required. Three maximum completions. Lecture/Laboratory. (CR/NC Only). Materials fee required. Transfer: CSU

ENGT 215—INTRODUCTION TO SOLID MODELING 1 Unit
Recommended for Success: Previous CAD or drafting experience.
Formerly listed as ENGR 215.
Introduction to use of the computer as a Solid Modeler. Topics include working in the draft environment, solids construction, solids editing, drawing views, dimensioning, and assembly drawings. Field trips may be required. Lecture/Laboratory. (Spring) Materials fee may be required. Transfer: CSU

ENGT 222—ENGINEERING DRAFTING AND DESIGN 1 2 Units
Prerequisite: Satisfactory completion of ENGR 220 and ENGR 221 and experience with CAD.
Mechanical drafting using computer (CAD) with emphasis on mechanical design. Specific topics include geometric dimensioning and tolerancing per ANSI 14.5, threads, fasteners, weldments, and assembly drawings. Lecture/Laboratory/Discussion. Materials fee may be required. Transfer: CSU
ENGT 223—ENGINEERING DRAFTING AND DESIGN 2 2 Units
Prerequisite: Satisfactory completion of ENGT 222
A continuation of ENGT 223. Topics include multicomponent assemblies, piping, sheet metal, materials selection and design. Lecture/Laboratory. Materials fee may be required. Not offered every semester. Transfer: CSU.

ENGT 250—MATERIALS IN ENGINEERING 3 Units
A study of the structure of metals, ceramics, polymers, composites, and semiconducting materials and their effect on mechanical, electrical, magnetic, and thermal properties. Methods used in manufacture and processing. Field trips may be required. Lecture. Materials fee may be required. Transfer: CSU

ENGT 251—PROPERTIES OF MATERIALS 1 Unit
Recommended for Success: Completion of ENGT 250 or concurrent enrollment. Materials testing, analysis, and evaluation of response models of metals, ceramics, polymers, and composites. Field trips required. Laboratory. Materials fee may be required. Transfer: CSU

ENGT 255—STATICS AND STRENGTH OF MATERIALS 3 Units
Recommended for Success: Satisfactory completion of MATH 122 or placement by MJC assessment process. Study of force and moment systems. Concept of equilibrium stresses, and deformation. Effects of forces and moments acting on beams, structures, and shafts. Field trips may be required. Lecture. Material fees may be required. Transfer: CSU

ENGT 375—CONSTRUCTION BLUEPRINT READING 2 Units
Reading and interpreting basic two-dimensional blueprints, sketching. Terminology symbols, notes and building code practices for building trades. Field trips may be required. Lecture/Laboratory. Not offered every semester.

ENGT 376—MECHANICAL BLUEPRINT READING 2 Units
Reading and interpreting basic two-dimensional mechanical drawings; sketching. Terminology symbols, notes, and practices for manufacturing and fabrication trades. Field trips may be required. Lecture/Laboratory. Not offered every semester.

ENGT 3110—ENVIRONMENTAL CONSERVATION 3 Units
Study of the world’s environment to sustain the highest quality of life. Includes study of ecology, populations, environmental pollution, conservation of natural resources including: energy, water, soils, forests, rangelands, and wildlife. Field trips required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B2)

ENGT 3110L—ENVIRONMENTAL CONSERVATION 1 Unit
LABORATORY
Prerequisite: Satisfactory completion of ENGT 108 or concurrent enrollment in ENGT 108.
Study of environmental conservation management concepts in an experiential format. Laboratory study will encompass environmental pollution controls, population studies; energy use and alternatives; water quality use and conservation; soil analysis and land-use planning; wildlife habitat restoration; and hazardous materials analysis and alternatives. Field trips required. Laboratory. Transfer: CSU, UC

ENGT 3119—INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 3 Units
Also offered as GEOG 109.
Introduction to Geographical Information Systems (GIS). GIS center upon mapping as a tool for identifying and assessing spatial relationships of human activity. Applications to business, economics, weather, geology, agriculture etc. Students will create, apply, and evaluate databases which generate maps. Field trips required. Lecture/Laboratory. (A-F Only). Transfer: CSU, UC

ENGT 31110—CALIFORNIA WATER 3 Units
An interdisciplinary examination of California’s water use and management with an historical emphasis on the politics and conflicts arising from water scarcity. Field trips may be required. Lecture/Laboratory. Materials fee may be required. (A-F Only). Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D7) (IGETC: 4)

ESL
(English as a Second Language)

The Literature and Language division offers two programs in ESL: a non-credit, adult basic education program of courses on four levels, and a six-level credit program intended for students who plan to pursue other academic and vocational study at the college. Most ESL courses are not degree-applicable; no major is offered.

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ESL 10—ENGLISH LANGUAGE 1 10 Units
Non-degree course.
Elementary course in speaking, listening, reading, and writing for persons learning English as another language. Field trips may be required. Lecture.

ESL 20—ENGLISH LANGUAGE 2 5 Units
Non-degree course.
Prerequisite: Placement in ESL 20 through assessment process or satisfactory completion of ESL 10 or equivalent course.
Continuation of ESL 10. Elementary English for persons learning English as another language. Emphasis on vocabulary and sentence structure for practical communication in school, community and work. Field trips may be required. Lecture/Laboratory.
ESL 23—SPOKEN ENGLISH 1 5 Units
Recommended for Success: Placement in ESL 20 or above.
Concurrent enrollment in ESL 20 or 30 recommended.
Non-degree course.
Elementary speaking improvement for students of English as a second language. Field trips may be required. Two maximum completions. Lecture/Laboratory.

ESL 24—ESL COMPOSITION AND READING 1 5 Units
Prerequisite: Placement in ESL 20 through assessment process or satisfactory completion of ESL 10 or equivalent course.
Concurrent enrollment in ESL 20 recommended.
Non-degree course.
Practice in reading and writing for students at the beginning (second semester) level. Significant homework may be assigned to a lab. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 30—ENGLISH LANGUAGE 3 5 Units
Prerequisite: Placement in ESL 30 through assessment process or satisfactory completion of ESL 20 or equivalent course.
Non-degree course.
Continuation of ESL 20. Emphasis on more advanced elementary vocabulary and sentence structures. Practice in more fluent, accurate use of elementary English. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 34—ESL COMPOSITION AND READING 2 5 Units
Prerequisite: Placement in ESL 30 through assessment process or satisfactory completion of ESL 20 and ESL 24 or equivalent course.
Concurrent enrollment in ESL 30 recommended.
Non-degree course.
Practice in reading and writing for students at the high beginning (third semester) level of ESL courses. Continuation of ESL 24. Significant homework may be assigned to a lab. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 40—ENGLISH LANGUAGE 4 5 Units
Prerequisite: Placement in ESL 40 through assessment process or satisfactory completion of ESL 30 or equivalent course.
Non-degree course.
Intermediate course in English for persons learning English as another language. Introduction to more difficult structures in English sentences. Review of elementary English. Field trips may be required. Lecture/Laboratory.

ESL 40A—SKILLS FOR SUCCESS IN INTERMEDIATE GRAMMAR
Designated to provide further practice on grammar points needed for success in ESL 40 or higher; in particular, for students who are weak in prerequisite skills and/or who have failed ESL 40. These courses do not serve as prerequisites for ESL 45. Lecture/Laboratory/Other.

ESL 43—SPOKEN ENGLISH 2 5 Units
Recommended for Success: Placement in ESL 40 or above.
Concurrent enrollment in ESL 40 or 45 recommended. Non-degree course.
Speaking improvement for students of English as a second language. Field trips may be required. Two maximum completions. Lecture/Laboratory.

ESL 44—ESL COMPOSITION AND READING 3 5 Units
Prerequisite: Placement in ESL 40 through assessment process or satisfactory completion of ESL 30 and ESL 34 or equivalent course.
Concurrent enrollment in ESL 40 recommended.
Non-degree course.
Practice in writing multi-paragraph compositions and reading for students at the intermediate level of ESL with a comprehensive foundation in English grammar and the ability to write well-formed paragraphs in English. Continuation of ESL 34. Significant homework may be assigned to a lab. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 45—ENGLISH LANGUAGE 5 5 Units
Prerequisite: Placement in ESL 45 through assessment process or satisfactory completion of ESL 40 or equivalent course.
Non-degree course.
Continuation of ESL 40. Introduction of structures and vocabulary common to academic and business writing. Continued speaking and writing practice with previously learned forms. Field trips may be required. Lecture/Laboratory.

ESL 46—ESL COMPOSITION AND READING 4 5 Units
Prerequisite: Placement in ESL 45 through assessment process or satisfactory completion of ESL 40 and ESL 44 or equivalent course.
Concurrent enrollment in ESL 45 recommended.
Non-degree course.
Practice in writing academic essays and analysis of authentic reading for students at the higher intermediate level of ESL. Significant homework may be assigned to a lab. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 47—ENGLISH LANGUAGE 6 5 Units
Prerequisite: Placement in ESL 47 through assessment process or satisfactory completion of ESL 45
Non-degree course.
Advanced course in English for persons learning English as another language. Emphasis on forms of written English and English used in business or academic settings. Advanced review of selected topics in English grammar. Field trips may be required. Lecture/Laboratory.

ESL 48—ESL COMPOSITION AND READING 5 5 Units
Prerequisite: Placement in ESL 47 through assessment process or satisfactory completion of ESL 45 and ESL 46 or equivalent course.
Concurrent enrollment in ESL 47 recommended.
Non-degree course.
Practice in composition and reading for advanced ESL students who plan to continue in college. Preparation for reading and writing in various academic and vocational disciplines. Emphasis on writing in response to reading. Significant homework may be assigned to a lab. Lecture/Laboratory. One completion allowed. Field trips may be required. (A-F or CR/NC).

ESL 70—ENGLISH FOR ACADEMIC PURPOSES 4 Units
Prerequisite: Placement in ENGL 49 through assessment process or satisfactory completion of ESL 47 or 48.
Practice in spoken and written English encountered in college study. Emphasis on comprehension of lecture and reading at college level, speaking and writing for academic purposes. Appropriate for non-native speakers of English with advanced language skills who intend to enroll in academic and technical courses. Field trips may be required. Lecture. Laboratory.

NON-CREDIT COURSES

ESL 901—ESL: BEGINNING
Beginning English for non-English speakers. Emphasis on beginning spoken English and basic literacy. Field trips may be required. Unlimited repeats. Lecture.

ESL 902—ESL: LOWER ELEMENTARY
Recommended for Success: Satisfactory completion of ESL 901 or placement by assessment process.
Elementary English for very limited-English-speaking people. Emphasis on elementary spoken English for practical needs; preparation for advancement into credit ESL classes. Field trips may be required. Unlimited repeats. Lecture/Laboratory.

ESL 903—ESL: HIGHER ELEMENTARY
Recommended for Success: Satisfactory completion of ESL 902 or placement by assessment process.
Elementary level English for speakers of other languages unable to attend credit ESL classes. Instruction and practice in listening, speaking, reading and writing; emphasis on spoken English; practical reading and writing. Field trips may be required. Unlimited repeats. Lecture.

Continued ©

COURSES OFFERED AT MJC 191
ESL 904—ESL: INTERMEDIATE
Recommended for Success: Satisfactory completion of ESL 903 or placement by assessment process.
Intermediate level English for speakers of other languages unable to attend credit ESL classes. Instruction and practice in listening, speaking, reading and writing; emphasis varies according to needs of students. Field trips may be required. Unlimited repeats. Lecture.

ESL 905—ENGLISH AT WORK
Recommended for Success: Placement by assessment process at ESL level 2 or 3 (ESL 20 or ESL 30).
Course for high beginning and lower intermediate learners of English as a second language. English needed to seek employment and function successfully in the workplace. Field trips may be required. Unlimited repeats. Lecture.

ESL 906—ENGLISH AT WORK 2
Recommended for Success: Placement by assessment process at ESL level 3 or 4 (ESL 30 or ESL 40).
Continuation of ESL 905. Practice in more fluent, accurate use of English needed to seek employment and function successfully in the workplace. Field trips may be required. Unlimited repeats. Lecture.

FAMLF (Family Life)

FAMLF 131—FAMILY RELATIONSHIPS 3 Units
The family and its interpersonal relationships, the formation and development of the family, adjustments within the family, the family cycle, parenthood, marriage enrichment, dissolution of marriage and remarriage, exploration of resources to strengthen the family. Lecture. Transfer CSU, UC (CAN FCS 12) General Education: (MJC GE: E)

FAMLF 143—LIFE MANAGEMENT 3 Units
Current changes in society which influence life management skills including: changing family structures, values, conflicts, and multiple role issues. Decision making and resource management skills are required to successfully meet the challenges(0,9),(996,990) today. Field trips may be required. Lecture. (Spring) Transfer: CSU

FAMLF 160—FAMILIES IN SOUTHEAST ASIAN CULTURES 1 Unit
Also offered as ANTHR 160.
A survey of basic value concepts of Southeast Asian cultures; their origin, and resulting impact on family structure, child rearing, marriage practices, religion, folk medicine and education. Overview of the interplay between Southeast Asian social and cultural values and their counterparts in American society. Continuity and change in the Southeast Asian family. Lecture. Transfer: CSU

FAMLF 161—FAMILIES IN LATIN AMERICAN CULTURES 1 Unit
Also offered as ANTHR 161.
A survey of basic value concepts of Latin American cultures; their origin, and resulting impact on family structure, child rearing, marriage practices, religion, folk medicine, and education. Overview of the interplay between Latin American social and cultural values and their counterparts in American society. Continuity and change in the Latin American family. Lecture. Transfer: CSU

FAMLF 242—PARENT INVOLVEMENT 3 Units
Recommended for Success: Satisfactory completion of CLDDV 245
Experience in promoting increased parent involvement and parent education in community programs. Field trips required. Lecture/Other. (Fall) Transfer: CSU

FAMLF 355A,B—THE CHILD IN THE FAMILY 1/2, 1 Unit
Influences of the family and school on the growth and development of the child from the prenatal stage through the early childhood years. Community resources that impact children. Two maximum units. Lecture.

FAMLF 390—THE PROCESS OF PARENTING 1 Unit
Discussion of child growth and development related to parenting. Background for understanding parent-child relationships. Emphasis on cooperation through effective and mutually respectful communication techniques. Lecture. Three maximum completions. (A-F or CR/NC)

FASMR (Fashion Merchandising)
The Fashion Merchandising program prepares students for entry into one of the nation's largest industries as merchandising assistants, buyers, department store managers, and visual merchandisers. Associate degrees and certificates are available with these emphases. Students may also earn a certificate in modeling which provides background in techniques and appearance that are assets in becoming a poised and self-confident person in one's professional and social environment.

The Fashion Merchandising program is realistic, with a lab that provides a store-like atmosphere. Display windows, a workshop, and modeling and grooming areas all support the development of hands-on experience.

FASM 200—TEXTILES FOR FASHION AND INTERIORS 3 Units
Also offered as INTD 260.
An introduction to natural and manufactured textiles focusing on both the apparel and furnishings markets including the influence of textiles on product development. Field trips required. Lecture. (Spring) Transfer: CSU, UC (CAN FCS 6)

FASM 202—FASHION ANALYSIS 3 Units
Factors influencing trends of dress. Selection of color, line, and form related to various types of individuals. Analysis of the social significance of image as it relates to personal and professional relationships. Designed for fashion merchandising majors, but open to all. Field trips required. Lecture. Not offered every semester. Transfer: CSU (CAN FCS 20)

FASM 204—ORIGINS OF FASHION 3 Units
This survey of fashion of the Western World introduces historic dress as an inspiration and a design resource for students of fashion buying and merchandising. Historical trends in dress reflecting the social and cultural life of a people will be explored and application will be made of historical design as it relates to modern dress. Field trips required. Lecture. (A-F Only) Transfer: CSU

FASM 254—FUNDAMENTALS OF FASHION MERCHANDISING 3 Units
History and movement of fashions; study of fashion leaders, apparel production, product knowledge, terminology and fashion merchandising activities. Personal requirements of fashion merchandising. Field trips required. Lecture. (A-F Only) (Fall) Transfer: CSU

FASM 256—PRODUCT KNOWLEDGE — APPAREL 3 Units
A study of the textile products industry. Special attention given to coordination of merchandise, trade terms and promotion. Interpretation of information is presented so that sales personnel and consumers are considered. Field trips may be required. Lecture. Transfer: CSU

FASM 258—VISUAL MERCHANDISING 1 3 Units
Introduction of basic techniques needed for the visual presentation of merchandise. Study of store windows and interior displays and their coordination with sales promotion, lighting, display materials, sources and supply. Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

FASM 259—VISUAL MERCHANDISING 2 4 Units
Prerequisite: Satisfactory completion of FASM 258
Study of the ever-changing consumer; impact of visual merchandising on consumer. Display problems solved with training in speed and efficiency; fashion coordination projects. Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

FASM 361—WORKSHOP IN VISUAL MERCHANDISING 1 Unit
Workshop in solving visual merchandising problems. Emphasis on developing practical skills for displaying merchandise to promote its appeal. Designed for those who have had some experience with visual merchandising but open to all. Field trips required. Two maximum completions. Lecture/Laboratory/Other. Materials fee required. (Fall)
FASMR 363—FASHION PROMOTION AND COORDINATION 3 Units
Principles of fashion promotion and coordination, including a study of the psychology of fashion, functions of the coordinator, and techniques and procedures for presenting fashion. Emphasis on function of fashion coordination and fashion show promotion. Field trips required. Lecture/Laboratory. (A-F Only) Spring

FASMR 364—FASHION AND INTERIOR DESIGN TOUR 2 Units
Intensive study of the fashion and interior design industries on site in New York including design, production and merchandising. Introduction and evaluation in class sessions on campus. Two maximum completions. Lecture/Laboratory. Travel Cost (prevailing travel rates.) (Spring)

FASMR 365—COLOR IN FASHION AND INTERIORS 3 Units
A survey of color theories, color combinations, and the use of color in the fashion and interiors industries. Students will learn basic color harmony, psychological associations, personal coloration, and current trends in color. Projects will include the application of color in promotional techniques and sales appeals. Field trips required. Lecture. (Fall)

FASMR 368—FASHION FIELD WORK 1 1 Unit
Acquaint students to the world of fashion through field trips to manufacturers, designers, San Francisco Market, shopping centers, retail stores, museums and fashion promotional activities in the San Francisco and Northern California area. Field trips are required. Three maximum completions. Fee for travel expenses. Forty hours total. Nine hours lab per day for 4 days; one hour lecture per day for 4 days.

FASMR 369—FASHION FIELD WORK 2 1 Unit
Acquaint students with the world of fashion through field trips to manufacturers, designers, California Mart, shopping centers, retail stores, museums, and fashion promotional activities in the Los Angeles area. Field trips are required. Three maximum completion units. Forty hours total. Nine hours lab per day for 4 days; one hour lecture per day for 4 days. Fee for travel expenses and accommodations.

FASMR 373—SALES IN FASHION AND INTERIORS 3 Units
Analysis of effective selling to specific fashion and interior groups. Recognition of their individual purchasing motives and considerations. Emphasis is placed on identifying specific fashion and interior expectations, personality attributes and application of appropriate sales and service techniques. Stresses fashion and interior sales contribution to the total promotional effort of wholesale and retail operations. Field trips may be required. Lecture.

FASMR 374—PERSONAL SHOPPERS/WARDROBE CONSULTANTS 4 Units
A study of the role of the Personal Shopper, Wardrobe Consultant and Image Consultant, and the function of the consultant in multiple roles: research analyst promoter, showperson, public relations specialist and fashion expert. Focus is placed on wardrobe coordination, color, accessorizing and personal style. Field trips required. Lecture/Laboratory.

FILM

FILM 150—FILM PRODUCTION 3 Units
Techniques of motion picture production. Students write scripts; operate camera, sound, lighting, and editing equipment to produce basic film projects. This class will focus on single camera “film style” techniques utilizing video production equipment. Field trips may be required. Lecture/Laboratory. Materials fee required. (MJC Activities) Transfer: CSU, UC

FILM 151—ADVANCED FILM PRODUCTION 1 3 Units
Recommended for Success: Satisfactory completion of FILM 150, RATV 142. Practical applications in film production. Creative use of camera, sound, editing, and production planning. Students will produce, direct, and edit individual projects. This class will provide intermediate experience in group filmmaking, affording expanded areas of responsibility. Each group will produce a 20-minute feature film. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC

FILM 152—ADVANCED FILM PRODUCTION 2 3 Units
Recommended for Success: Satisfactory completion of FILM 151, RATV 142. Continuation of FILM 151. Development of leadership skills, directing techniques, and the producing process for the film industry. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU, UC

FILM 153—CONTEMPORARY FILM 3 Units
Introductory course examines the film industry from a creative, technical and business perspective. Samples of topics explored include the business behind today’s film industry, artistic effects of cinematic composition and film as it relates to popular culture. Attendance of first run feature films at local movie theatres is required. Two maximum completions. Cost of theatre tickets and admission fee into theatre to view 16–17 films. Lecture. Materials fee required. Transfer: CSU, UC General Education: (MJC-GE: C)

FILM 154—MOVIES WITH A MESSAGE: SOCIAL TOPICS IN FILM 3 Units
Also offered as SOCCS 154.
A thematic film course aimed at using the medium of film to broaden the awareness of current societal and global issues, focusing on different topics semester to semester. Selected sequences of feature films, documentaries, unusual foreign and domestic releases will explore how film makers depict aspects of history, culture, religion, race, gender, class, ideology and other issues in a global perspective. Course will cover related elements of film style and theory, such as the relationship of subject to style, form and function. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C)

FILM 155—THE DOCUMENTARY FILM 3 Units
Introduction to the history and theory of documentary film practice through the examination of a variety of documentary films (educational, propaganda, social activist, ethnographic, cinema vérité, etc.) Screening and discussion of selected documentaries will be used to enhance this visual art form. (A-F or CR/NC) Lecture. Transfer: CSU Transfer: (MJC-GE: C)
FDNTR

(Food & Nutrition)

FDNTR 219—NUTRITION 3 Units
Recommended for Success: Satisfactory completion of Laboratory chemistry course in high school or college, or concurrent enrollment.
Concepts of nutrient requirements of the body in relation to growth maintenance, and repair at different stages of a normal life cycle; factors influencing normal metabolism; construction of an adequate diet at different ages and food safety and hunger will be examined. Lecture. Transfer: CSU, UC (CAN FCS 2) (CC BIOL 50) General Education: (MJC-GE-A)

FDNTR 320—DIET IN HEALTH AND DISEASE 3 Units
Recommended for Success: Satisfactory completion of FDNTR 219 or 351.
Collecting data for assessing nutrition status and planning modified diets to meet individual patient needs. Emphasis placed upon application in health care facilities. Field trips may be required. Lecture. Not offered every semester.

FDNTR 321—FAMILY FOODS AND NUTRITION 3 Units
Nutritional assessments, food selection, preparation and service of cost effective, nutritious meals in the home. Emphasis on the needs for the entire spectrum of the life cycle, stressing good nutrition and preparation principles. A non-technical course open to all students. Field trips may be required. Lecture/Laboratory. Lab fees required.

FDNTR 351—PRACTICAL NUTRITION 3 Units
Recommended for Success: Laboratory chemistry course in high school or college or concurrently enrolled.
Basic principles of nutrition and their application. Hunger, food safety and current nutritional controversies will be examined. Field trips may be required. Lecture. General Education: (MJC-GE-A)

FDNTR 370—ISSUES IN CHILDREN’S NUTRITIONAL HEALTH 2 Units
Also offered as CLDDV 370.
Overview of entry level skills in the child nutrition program including sanitation, record keeping and food production. Role and responsibilities in providing menus for children and youth which comply with budgetary parameters and meet their nutritional, social and emotional needs with sensitivity to culturally diverse foods. Field trips required. Lecture. (Fall)

FDP

(Food Processing)

The student will acquire skills sufficient for technical employment in the food processing industry. The student may also prepare for transfer to a university food science major by adapting this program in consultation with an advisor. Contact the division office in the Agriculture Building for advising assistance.

FDP 200—BASIC FOOD PROCESSING 3 Units
Introductory course for work in food processing industry. Methods of food preservation, assurance of quality, laws related to food processing, skills and techniques used by the industry. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

FDP 300—CERTIFIED PROFESSIONAL FOOD MANAGER TRAINING 1½ Units
Develops a working knowledge and familiarity with technology and strategies to manage food safety from production to consumption. Field trips may be required. Two maximum completions. Lecture. Materials fee required. (A-F Only)

FDP 301—CERTIFIED HACCP MANAGER TRAINING 1½ Units
Recommended for Success: An understanding of basic food safety program; i.e., GMP’s, SSOP’s, and fundamentals of sanitation procedures.
Elements of hazard analysis and critical control points and how they integrate into a successful food safety program for manufacturers, wholesalers, distributors and food establishment operations with the goal of HACCP certification. Field trips required. Two maximum completions. Lecture. Materials fee required. (A-F Only)

FDP 342—INTRODUCTORY WINE EVALUATION 1 Unit
Prerequisite: Limited to persons 21 years of age and older.
Formerly listed as PLSC 242.
The scientific study of wines, with an emphasis on using precise descriptive language for sensory evaluation: the use of the senses of sight, smell, taste and touch in a disciplined, systematic way to learn about some of the chemical and physical properties of wine. Emphasizes California varietal wines as a basis for learning about varietal wine characteristics to build a foundation for understanding the great wines of the world. Field trips may be required. Lecture/Demonstration. Two maximum completions. Materials fee required. CRNC Only.

FDP 343—COMMERCIAL WINEMAKING PRACTICUM 1 Unit
Formerly listed as PLSC 243.
Introduction to current commercial winemaking practices through lecture, observation and practical experience. Experiential component delivered at CSU, Fresno winery in cooperation with CSU, Fresno enology faculty and students. Field trips required. Lecture/Laboratory. Four maximum completions. (Fall)

FDP 344—SENSORY EVALUATION OF RED TABLE WINES 1 Unit
Prerequisite: Limited to persons 21 years of age and older.
Recommended for Success: Satisfactory completion of FDP 342.
Sensory evaluation of red table wines, with an emphasis on premium California red table wines. Field trips may be required. Two maximum completions. Lecture/Demonstration. Materials fee required. Not offered every semester. (Fall)

FDP 376—BASIC FOOD PLANT LABORATORY PROCEDURES 1 Unit
Details of food plant laboratory procedures; emphasis on net weight, fill weight, syrup checking, and statistical quality control. Lecture/Laboratory. (A-F Only)

FDP 378—FOOD LABORATORY INSTRUMENTS 1 Unit
Operation, principles, importance and care of basic food laboratory instruments. Lecture/Laboratory. (A-F Only)

FDP 379—FOOD PRODUCTS GRADING 1 Unit
Fundamentals of food products grading. Lecture/Laboratory. (A-F Only)

FDP 380—FOOD PRODUCTS MICROANALYSIS-A 1 Unit
Training in insect part and fly egg determination in food products. Lecture/Laboratory. (A-F Only)

FDP 381—FOOD PRODUCTS MICROANALYSIS-B-MOLD COUNTING 2 Units
Introduction to mold count procedures as applied to fruit and tomato products and food plant sanitation. Includes Howard Mold, Geotrichum Mold, and Rot Count methods. Lecture/Laboratory/Other. (A-F Only)

FDP 382—FOOD PRODUCTS MICROANALYSIS-C 1 Unit
Principles of food bacteriology; use of materials and equipment, tests that identify the presence and number of bacteria important in the food industry. Lecture/Laboratory. (A-F Only)

FDP 383—ENZYMES IN THE FOOD INDUSTRY 1 Unit
Fundamentals of food enzymes and their use in the food industry; classification, production, activity, use, immobilization and inhibition, modification of food by endogenous enzymes, and the major classes of industrial enzymes. Lecture. (A-F Only)

FDP 386—FOOD LABORATORY CHEMISTRY PROCEDURES 1 Unit
Basic chemical principles and techniques as they are applied to chemical analysis of foods. Field trips may be required. Lecture/Laboratory. (A-F Only)

Continued
FDP 387—FOOD PROCESSING SANITATION AND CLEANUP 1 Unit
Introduction to the fundamentals of food processing equipment, cleanup and sanitation, types of cleaning agents, residue problems, cleanup methods and techniques. Two maximum completions. Field trips may be required. Lecture. (A-F Only)

FDSER (Food Service)

FDSER 323—CATERING 2 Units
A study of catering principles and application in the production of cold and hot hors d’oeuvres, including vegetables, ham, pork, poultry, seafood, fruit, cheese, mousse and sauces for buffet service. Stresses quality and quantity control and artistic presentation. Two maximum completions. Lecture/Laboratory. (Spring)

FREN (French)

FREN 51—INTRODUCTION TO PRACTICAL FRENCH 1 3 Units
Basic conversational French for those who need it for their work, travel, or to prepare for French 101. Field trips may be required. Lecture. Laboratory arranged. (Fall)

FREN 52—INTRODUCTION TO PRACTICAL FRENCH 2 3 Units
Prerequisite: Satisfactory completion of FREN 51. Continuation of FREN 51. Review and expansion of essentials of French grammar and vocabulary through oral expression. Field trips may be required. Lecture. Laboratory arranged. (Spring, Evening)

FREN 101—FRENCH 1 4 Units
Essentials of French grammar and pronunciation: simple composition, conversation, reading. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN FREN 2, CAN FREN SEQ A) General Education: (MJC-GE: C) (CSU-GE: C2)

FREN 102—FRENCH 2 4 Units
Prerequisite: Satisfactory completion of FREN 101 or two years of high school French. Continuation of FREN 101. Review and expansion of tenses, vocabulary, and commonly used expressions. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN FREN 4, CAN FREN SEQ A) General Education: (MJC-GE: C) (CSU-GE: C2)

FREN 103—FRENCH 3 4 Units
Prerequisite: Satisfactory completion of FREN 102 or three years of high school French. Review of French grammar; reading and conversational practice. Includes reading and discussion in French of selections from literary works of French writers. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN FREN 8, CAN FREN SEQ B) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

FREN 104—FRENCH 4 4 Units
Prerequisite: Satisfactory completion of FREN 103 or four years of high school French. Continuation of FREN 103. Includes reading and discussion in French of literary works of French writers. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN FREN 10, CAN FREN SEQ B) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

FSCI (Fire Science)

The Fire Science curriculum prepares the student for a career in fire service. Students will learn about the organization and operations of fire service, proper use of fire equipment, tactics and strategies of fire fighting, specialized job skills, and management techniques. Fire Science courses dropped or inactivated Fall 1987 to Fall 1988 are valid for students completing those courses prior to deletion from the catalog. For more information, contact the Regional Fire Training Center at 549*7028.

FSCI 301—FIRE PROTECTION ORGANIZATION 3 Units
Formerly listed as FSCI 321. Introduction to the fire service and fire protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions. Field trips may be required. Lecture. (A-F Only) Transfer: (CC FIRE 1)

FSCI 302—FIRE PREVENTION TECHNOLOGY 3 Units
Prerequisite: Satisfactory completion of FSCI 301 or concurrent enrollment. Formerly listed as FSCI 359. Provides fundamental information regarding the history and philosophy of fire prevention organization, operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards. Identifies the relationship of fire prevention, fire safety education, fire detection, and suppression systems. Field trips may be required. Lecture. (A-F Only) Transfer: (CC FIRE 2)

FSCI 303—FIRE PROTECTION EQUIPMENT AND SYSTEMS 3 Units
Prerequisite: Satisfactory completion of FSCI 301 Formerly listed as FSCI 329. Portable fire extinguishing equipment; sprinkler systems; protection systems for special hazards; fire alarm and detection systems. Field trips may be required. Lecture. Not offered every semester. (A-F Only) Transfer: (CC FIRE 3)

FSCI 304—BUILDING CONSTRUCTION FOR FIRE PROTECTION 3 Units
Prerequisite: Satisfactory completion of FSCI 301 Formerly listed as FSCI 326. Fundamentals of building construction as it relates to fire protection. Classification by occupancy and types of construction with emphasis on fire protection features including: building equipment, facilities, fire resistive materials and high rise considerations. Field trips may be required. Lecture. (A-F Only) Transfer: (CC FIRE 4)

FSCI 305—FIRE BEHAVIOR AND COMBUSTION 3 Units
Prerequisite or concurrent enrollment: Satisfactory completion of FSCI 301 Formerly listed as FSCI 321B. Theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. Field trips may be required. Lecture. (A-F Only) Transfer: (CC FIRE 5)

FSCI 322—FIRE SCIENCE CAREER DEVELOPMENT/PROMOTIONS 3 Units
Fire Service career development, promotion skills and techniques including mental attitude, resume, written tests, oral interviews, strategies, value and confidence building. Field trips may be required. Lecture. (A-F Only)

FSCI 323—FIRE HYDRAULICS 3 Units
Recommended for Success: Satisfactory completion of FSCI 301 Review of applied mathematics; hydraulics laws as applied to the fire service; application of formulas and mental calculation to hydraulics and water supply problems. Field trips may be required. Not offered every semester. Lecture. (A-F Only)

FSCI 327—FIRE APPARATUS AND EQUIPMENT 3 Units
Recommended for Success: Satisfactory completion of FSCI 301 Fire apparatus design, specifications and performance capabilities; effective utilization of apparatus in fire service emergencies. Field trips may be required. Not offered every semester. Lecture. (A-F Only)

FSCI 328—INVESTIGATION OF FIRES 3 Units
Prerequisite: Satisfactory completion of FSCI 301 Determining cause of fires (accidental, suspicious and incendiary); types of fires; related laws; introduction to arson and incendiarism; recognizing and preserving evidence; interviewing witnesses and suspects; arrest and detention procedures; court procedures and giving court testimony. Field trips may be required. Not offered every semester. Lecture. (A-F Only)
FSCI 332—FIRE FIGHTING TACTICS AND STRATEGY  
Prerequisite: Satisfactory completion of FSCI 301  
Principles of fire control through the utilization of manpower, equipment, and extinguishing agents on the fireground. Field trips may be required. Not offered every semester. Lecture. (A-F Only)

FSCI 336—RESCUE PRACTICES  
Recommended for Success: Satisfactory completion of FSCI 301  
Rescue problems and techniques; emergency rescue equipment; toxic gases; chemicals and diseases; radiation hazards; care of victims, including respiration and resuscitation, extrication, and other emergency conditions. Field trips may be required. Not offered every semester. Lecture. (A-F Only)

FSCI 337—WILDLAND FIRE CONTROL  
Prerequisite: Satisfactory completion of FSCI 301  
Designed to provide a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques. Field trips may be required. Not offered every semester. Lecture. (A-F Only)

FSCI 346—INSTRUCTIONAL METHODS FOR FIRE TRAINING OFFICERS  
Prerequisite: Satisfactory completion of FSCI 301  
Provides a variety of methods and techniques to assist a fire training officer in selecting, developing, and organizing materials for in-service training programs. Not offered every semester. Lecture. (A-F Only)

FSCI 347—FIRE PREVENTION 1C  
Prerequisites: Satisfactory completion of FSCI 354 and 355.  
Designed to provide fire service personnel with the third phase of State Certified Fire Prevention instruction. Includes instruction on flammable and combustible liquid hazards, storage, and extinguishment. Field trips may be required. Lecture. Materials fee will be required to pay for your certificate and manual. Not offered every semester. (A-F Only)

FSCI 350—FIRE COMMAND 1A  
Prerequisite: Satisfactory completion of FSCI 301 or equivalent.  
Designed to provide the prospective or active fire company officer with information and experience in command techniques. Emphasizes decision making, act of commanding, authority to command, organization structure, Planning and training for effective performance of a fire company officer at the scene of an emergency. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 351—FIRE COMMAND 1B  
Prerequisites: Satisfactory completion of FSCI 301 and 350.  
Prepares fire officers for command of various emergency incidents. Emphasizes development of management and decision-making practices required for success. Topics include use of the incident command system to manage major disasters, wildland fires, multi-casualty and hazardous materials incidents. Field trips may be required. Lecture/ Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 352—FIRE INSTRUCTOR 1A  
Prerequisite: Satisfactory completion of FSCI 301  
Designed to provide the prospective or active fire company officer with a variety of techniques and training for fire service personnel in accordance with latest concepts in vocational education. Emphasizes teaching technical lessons, evaluating teaching and learning efficiency and the application of principles of learning through practice teaching demonstrations. Lecture/Laboratory. Materials fee required for State Fire Marshal's Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 353—FIRE INSTRUCTOR 1B  
Prerequisite: Satisfactory completion of FSCI 352  
Designed to provide the prospective or active fire company officer with knowledge of the selection, development, organization and utilization of instructional materials for teaching technical lessons. Structured to provide fire service personnel with the professional preparation leading to standard-designated subjects instructor qualification. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 354—FIRE PREVENTION 1A  
Prerequisite: Satisfactory completion of FSCI 301  
Designed to provide prospective or active Fire Company Officer and Fire Prevention personnel with basic fire prevention information. Structured to prepare the student for responding to a variety of fire prevention situations in a professional and effective manner. Field trips may be required. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 355—FIRE PREVENTION 1B  
Prerequisites: Satisfactory completion of FSCI 301 and 354.  
Designed to provide fire service personnel with the second phase of state certified fire prevention instruction. Includes instruction on private water systems, fixed fire extinguishing, detection and alarm systems. Field trips required. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 356—FIRE MANAGEMENT 1  
Prerequisite: Satisfactory completion of FSCI 301  
Designed to provide the fire service student with instruction in the elements of organizational process, demonstration of growth and development in the use of managerial skills, applications of the course content to fire service work and personal life, location and use of managerial resources, and development of an action plan. Field trips may be required. Lecture/Laboratory. Materials fee will be required to pay for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 357—FIRE INVESTIGATION 1A  
Prerequisite: Satisfactory completion of FSCI 301  
Examines the national arson problem, fire investigation responsibilities, conduct of the investigator, fire chemistry, heat energy sources and explosive conditions; fire investigation techniques and legal aspects of fire investigation. Field trips required. Lecture/Laboratory. Materials fee will be required to pay for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 362—BASIC FIRE ACADEMY  
Prerequisites: Satisfactory completion of FSCI 301. An English skills test and a physical agility test must be taken prior to enrollment. Students must also submit a letter of health to the Fire Training Center.  
Basic knowledge and skills of a fire fighter as set by the State Fire Marshal. Satisfactory completion of the course fulfills educational requirements for Fire Fighter I. Materials fee required. Field trips required. Lecture/Laboratory. Not offered every semester. (A-F Only)

FSCI 364—DRIVER OPERATOR 1  
Prerequisite: Satisfactory completion of FSCI 301  
Fire emergency vehicle and pump operations. How to drive and maintain various types of vehicles. Pump operation and uses for various water sources and determining water flow. Field trips may be required. Lecture/Laboratory. Students must also submit a letter of health to the Fire Training Center. Not offered every semester. (A-F Only) Transfer: (CC FIRE 29A + 29B)

FSCI 365—EMERGENCY AID FIRST RESPONDER  
Designed to train fire and police personnel who are First Responders how to render emergency care until paramedics arrive at the scene. Lecture/Laboratory. Students must also submit a letter of health to the Fire Training Center. Not offered every semester. (A-F Only) Transfer: (CC EMS 157)
FSCI 367—FIRE INVESTIGATION 1B  2 Units
Prerequisite: Satisfactory completion of FSCI 257
Provides deeper understanding of fire investigation and builds on Fire Investigation
1A. Topics include: the juvenile fire-setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities. Field trips may be required. (A-F only) One completion allowed.

FSCI 371—FIRE COMMAND 2A  2 Units
Prerequisite: Satisfactory completion of FSCI 350
Formerly listed as FSCI 371A.
Prepares fire officers to use management techniques and incident command system when commanding multiple alarms or large combat forces. Field trips may be required. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 372B—FIRE MANAGEMENT 2B  2 Units
Prerequisite: Satisfactory completion of FSCI 356
Covers the purpose of budgeting, budget controls, types of budgets and budget systems and justifying budgets. Field trips may be required. Lecture. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 373—FIRE INSTRUCTOR 2A  2 Units
Prerequisites: Satisfactory completion of FSCI 352 and 353.
Formerly listed as FSCI 373A.
Provides fire service instructor with the techniques of evaluation. Construction of written and performance tests, as well as test planning, analysis, security and evaluation of results. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 374—FIRE INSTRUCTOR 2B  2 Units
Prerequisites: Satisfactory completion of FSCI 352 and 353.
Formerly listed as FSCI 373B.
Designed to develop leadership skills. Group dynamics, problem solving techniques and inter-personal development to utilize in staff meetings and brainstorming sessions. Skills for public meetings such as panel discussions and forums. Interactive team teaching is also included. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 375—FIRE INSTRUCTOR 2C  2 Units
Prerequisites: Satisfactory completion of FSCI 352 and 353.
Principles of media in the instructional process; selection of audio-visual and instructional media; employment of basic and advanced forms of instructional media; use of computers in the instructional process; individualized instruction programs. Field trips may be required. Lecture/Laboratory. Materials fee required for State Fire Marshal Certificate and student manual. Not offered every semester. (A-F Only)

FSCI 398A-D.Z—FIRE SCIENCE SPECIAL TOPICS  ¾-3 Units
Prerequisite: Satisfactory completion of FSCI 301 or equivalent.
These special topics consist of short courses on specific fire agency training needs. Emphasis is on updating recently available skills, information or technology that has a direct impact on specific agency or fire problems. Course content varies with the agency training needs studied. Four maximum completions. Lecture/Laboratory depending on topic. Not offered every semester. (A-F Only)

NON-CREDIT COURSES

FSCI 850A—NEW PRACTICES/PROCEDURES IN FIRE SCIENCE
Prerequisite: Satisfactory completion of FSCI 362
Update of new statutory laws and equipment and their implications to Fire Science practices and procedures. Unlimited repeats. Lecture.

FSCI 850B—NEW PRACTICES/PROCEDURES IN FIRE SCIENCE
Prerequisite: Satisfactory completion of FSCI 362
Update of new statutory laws and equipment and their implications to Fire Science practices and procedures. Unlimited repeats. Lecture.

FSCI 850C—NEW PRACTICES/PROCEDURES IN FIRE SCIENCE
Prerequisite: Satisfactory completion of FSCI 362
Update of new statutory laws and equipment, and their implications to Fire Science practices and procedures. New technology and procedures for fire incident and investigation. Unlimited repeats. Lecture/Laboratory.

FSCI 860—ADVANCED MEDICAL FIRST RESPONDER COURSE
Prerequisite: Satisfactory completion of FSCI 365
Designed to meet Emergency Medical Service requirements for certification of police and fire personnel designated as first responders to the scenes of medical emergencies. Eight maximum completions. Lecture/Laboratory.

GENED
(General Education Preparation)

GENED 956—GED PREPARATION
General review of all basic high school subjects in preparation for the General Education Development tests (G.E.D) and to provide students with knowledge required for entry and success in college programs. May be completed up to four times. (Non-graded) Lecture.

GEOG
( Geography)

GEOG 101—PHYSICAL GEOGRAPHY  3 Units
Physical elements of geography: emphasis on earth-sun relationships, weather, climate, landforms, native vegetation, and soil and human impact. Attention to the concepts and construction of maps. Listed as a non-laboratory science course on MJC General Education Pattern. Lecture. Transfer: CSU, UC (CAN GEOG 2) (CC GEOGR 15)
General Education (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOG 102—CULTURAL GEOGRAPHY  3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Introduction to origins and global distribution of cultures. Examines cultural adaptations to the earth, human modifications of the landscape, and patterns of human organization as exemplified in population, agriculture, language, religion, political organization, popular culture, and economic development. Issues addressed include famine, political conflict, multiculturalism, suburban sprawl, industrial relocation and third world development. Lecture. Transfer: CSU, UC (CAN GEOG 4) (CC GEOGR 12) General Education (MJC-GE: B) (CSU-GE: D5) (IGETC: 4)

GEOG 104—CALIFORNIA GEOGRAPHY  3 Units
Recommended for Success: Satisfactory completion of ENGL 101, GEOG 101 or 102
Introduction to California’s unique geography; examining political, economic, cultural, physical, and historical processes and characteristics. Field trips may be required. Lecture. Not offered every semester Transfer: CSU, UC

GEOG 105—ECONOMIC GEOGRAPHY  3 Units

Continued...
GEOL 109—INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
3 Units
Also offered as ENSCI 109. Introduction to Geographical Information Systems (GIS). GIS centers upon mapping as a tool for identifying and assessing spatial relationships of human activity. Applications to business, economics, weather, geology, agriculture, etc. Students will create, apply and evaluate databases which generate maps. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (CC GEOGR 60)

GEOL 110—WORLD REGIONAL GEOGRAPHY
3 Units
Survey or the world’s major geographical regions and their physical, economic, political, and cultural characteristics. Emphasis is placed upon historical influences which explain current problems and conditions. Lecture. Transfer: CSU, UC (CC GEOGR 18) General Education: (MJC-GE: B) (CSU-GE: D5)

GEOL 64—GEOLOGY OF NATIONAL PARKS
3 Units
The interpretation of geologic features of the United States National Parks and Monuments and an introduction to the geologic processes responsible for their formation. Field trips may be required. Lecture. General Education: (MJC-GE: A)

GEOL 160—INTRODUCTION TO GEOLOGY
3 Units
Study of the composition of the earth, and the physical and chemical processes which shape it. Topics include plate tectonics, volcanism, earthquakes, rocks and minerals, weathering, and erosion. Credit will be granted for either GEOL 160 or 161. Field trips may be required. Lecture. Materials fees may be required. Not offered every semester. Transfer: CSU, UC General Education (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 161—PHYSICAL GEOLOGY
4 Units
Formerly listed as GEOL 160. Study of the physical and chemical processes that shape the earth, including plate tectonics, volcanoes, weathering, and erosion; the composition of the earth; and geologic hazards, such as mass wasting, flooding and earthquakes. Laboratory topics include rock and mineral identification, and the use of maps and aerial photographs to understand erosional and tectonic processes. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN GEOL 2) (CC ESC 5) General Education (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 165—GEOLOGY OF CALIFORNIA
3 Units
The geologic setting and evolution of California’s geologic provinces. Emphasis is on processes that have and are still acting to shape the landscape: volcanism, earthquakes, and erosion. Field trips may be required. Lecture. Transfer: CSU, UC, General Education (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 166—HISTORICAL GEOLOGY
4 Units
Formerly listed as GEOL 163. Introduction to the origin, development and evolution of the earth and its inhabitants. Topics include the study of fossils and rocks, continents and ocean basins, geologic time, plate tectonics, climate change and mass extinctions. Laboratory utilizes rocks, fossils and stratigraphic principles to decipher ancient environments. Field trips may be required. Lecture/Laboratory. CR/NC Only. Transfer: (CAN GEOL 4) CSU, UC, General Education (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 168—MINERALOGY AND CRYSTALLOGRAPHY
4 Units
Prerequisite: Satisfactory completion of GEOL 161. Study and classification of minerals, their physical properties, chemical composition, and optical properties. Laboratory emphasizes physical and optical properties of rock-forming minerals. Field trips required. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC

GEOL 171, A, B—GEOLOGY FIELD STUDIES
1/2, 1, 2 Units
Prerequisite: Concurrent enrollment or previous completion of any geology or earth science course. Field trips to areas of geologic significance. Emphasis on the geologic phenomena, history, and evolution of the regions visited. Four maximum completions. Lecture/Laboratory. Transfer: CSU, UC

GEOL 174—GEOLOGY SUMMER FIELD STUDIES
3 Units
Recommended for Success: Satisfactory completion of previous course in geology or earth science. Application of principles of geology through extended field studies at selected sites in the western United States and other geologically significant locations. Skills developed in rock, mineral, and fossil identification, and use of geological field equipment. Requires ability to work and study under rigorous conditions. Lecture/Laboratory. Field trips may be required. One completion allowed. Materials fees required. Transfer: CSU

GERM (German)

GERM 51—INTRODUCTION TO PRACTICAL GERMAN 1
3 Units
Introduction to the essentials of spoken and written German for application in travel, occupation and daily life. Field trips may be required. Lecture/Laboratory. Not offered every semester.

GERM 52—INTRODUCTION TO PRACTICAL GERMAN 2
3 Units
Prerequisite: Satisfactory completion of GERM 51. Continuation of GERM 51. Review and expansion of essentials of German grammar and vocabulary through oral expression. Field trips may be required. Lecture/Laboratory. Not offered every semester.

GERM 101—GERMAN 1
4 Units
Essentials of written and spoken German, simple composition, conversation and reading. Field trips may be required. Lecture/Laboratory/Other. Transfer: CSU, UC (CAN GERM 2, CAN GERM SEQ A) General Education (MJC-GE: C) (CSU-GE: C2)

GERM 102—GERMAN 2
4 Units
Prerequisite: Satisfactory completion of GERM 101 or two years of high school German. Continuation of GERM 101. Review and expansion of tenses, vocabulary, and commonly used expressions. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN GERM 4, CAN GERM SEQ A) General Education (MJC-GE: C) (CSU-GE: C2)

GERM 103—GERMAN 3
4 Units
Prerequisite: Satisfactory completion of GERM 102 or three years of high school German. Review of German grammar, reading and conversational practice. Includes reading and discussion in German of selections from literary works of German writers. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC, UC (CAN GERM 8, CAN GERM SEQ B) General Education (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

GERM 104—GERMAN 4
4 Units
Prerequisite: Satisfactory completion of GERM 103 or four years of high school German. Continuation of GERM 103. Includes reading and discussion in German of literary works of German writers. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC (CAN GERM 10, CAN GERM SEQ B) General Education (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

GERM 190A, B, C—ADVANCED GERMAN
1, 2, 3 Units
Prerequisite: Satisfactory completion of GERM 104. Advanced reading of German authors; emphasis on understanding of the texts and oral-aural performance. Course may not be substituted for GERM 101, 102, 103 or 104. 190A, four maximum units allowed. 190B, C, six maximum units allowed. Field trips may be required. Lecture. Transfer: CSU, UC

GERON (Gerontology)

GERON 101—AGING IN AMERICA
3 Units
Formerly listed as HUMSR 104. Analysis of the aging process from a multidisciplinary approach, including sociology, psychology, and physiology. Students will have an opportunity to explore their beliefs, feelings and values regarding the aged population. Field trips may be required. Lecture. Transfer: CSU
GUIDE (Guidance)

The Guidance program is an integral part of the counseling services. Students who take guidance skills courses will learn to:

- Acquire, organize and demonstrate problem-solving and decision-making skills; explore, evaluate and pursue career and educational options; develop social, intellectual and emotional competencies; develop needed skills and strategies to maximize the educational experience; understand themselves, others and their environment in order that they may develop individual value systems and life styles.

One of the following courses must be taken to fulfill the guidance graduation requirement: GUID 109, 110, 111, 112, 116, or 122. Students should enroll in a Guidance class their first semester of attendance at MJC.

GUIDE 109—ORIENTATION FOR FOREIGN STUDENTS 1 Unit
Education and career planning for students whose previous education has been outside the United States. Acquaints students with the college, its curriculum, facilities, services, academic regulations, vocational and certificate programs, degree and transfer requirements. Reviews extra curricular activities, personal adjustment, American customs, culture shock, survival techniques and immigration regulations. A detailed educational plan is developed. Students must complete a conference with a counselor during the semester. Lecture. (MJC Guidance) (CR/NC Only) Transfer: CSU

GUIDE 110—EDUCATIONAL PLANNING ½ Unit
Acquaints students with the college, its curriculum, facilities, services, academic regulations, vocational and certificate programs, degree and transfer requirements. An educational plan is developed according to each student’s needs and goals. Lecture. (CR/NC Only) (MJC Guidance) Transfer: CSU (CC GUIDE 107)

GUIDE 111—CAREER AWARENESS 1 Unit
Assists students in exploring career alternatives through development of skills necessary for the research, selection and planning of a lifelong career. The role of aptitude, interests, values, and skills will be addressed. Interests, aptitude and values tests may be used. Important aspects of occupational choice will be covered along with occupational information. An educational plan will be developed. Students must complete a conference with a counselor during the semester. Lecture. Materials fee required. (CR/NC Only) (MJC Guidance) Transfer: CSU (CC GUIDE 101)

GUIDE 112—JOB DEVELOPMENT SKILLS ½ Unit
Realities of the job market and techniques for conducting a successful job search. Emphasis on learning job application procedures, resume-writing, and interview techniques. Students must complete a conference with a counselor during the semester. Two maximum completions. Lecture. (CR/NC Only) (MJC Guidance) Transfer: CSU (CC GUIDE/BUSAD 25)

GUIDE 116—ORIENTATION FOR RE-ENTRY ADULTS 2 Units
For the adult student who is re-entering the educational system. The conflicts and opportunities of modern society are examined as they affect the student. Personal, educational and career goals are reviewed in the context of aptitudes, interests and values. Decision making is examined as it relates to achieving personal goals. Review of the role and function of higher education, community college education and the MJC curriculum. Conducted in an informal group setting. Includes guest speakers and audio visual presentations. Students must complete a conference with a counselor and develop an educational plan during the semester. Lecture. (CR/NC Only) (MJC Guidance) Transfer: CSU

GUIDE 122—CAREER AWARENESS FOR ADULTS WITH DISABILITIES 1 Unit
Assists students with disabilities in exploring career alternatives through development of skills necessary for the research, selection and planning of a life-long career. The role of attitudes, interests, coping skills, self-concept, communication, values and skills will be addressed. Interests, aptitude and value tests may be used. Important aspects of occupational choice will be covered along with occupational information. An educational plan will be developed. Lecture. (CR/NC Only) (MJC Guidance) Transfer: CSU

HE (Health Education)

The expanding field of health education through public or community agencies and the schools will require trained professionals for positions of leadership and supervision. The professionals will be dealing with such complex issues as physical and mental well-being, substance abuse, exercise, environmental and consumer health, disease control, human sexuality, family relations, death and dying, first aid and emergency care. Since careers in the Health Education field usually require a minimum of a four-year degree, health education majors at MJC are given an introduction to health through basic health and safety courses and are advised to follow general education and transfer requirements for four-year colleges and universities.

HE 100—STANDARD FIRST AID/CPR 1 Unit
A basic course for an Emergency Services professional or the citizen who wishes to maintain or acquire Cardio-Pulmonary Resuscitation (CPR) and Basic First Aid Certification. Successful course completion results in American Red Cross certification in CPR and Standard First Aid. May be repeated four times for certificate renewal. Materials fee required. Lecture. Transfer: CSU, UC

HE 101—EMERGENCY RESPONSE/CPR FPR 3 Units
Course designed to provide the First Responder with advanced first aid capabilities necessary in an emergency to help sustain life, reduce pain, minimize the consequences of injury or sudden illness and to provide emergency care and transportation of the sick and injured. American Red Cross certification issued upon satisfactory completion. May be repeated three times for certification renewal. Lecture. Materials fee required. (A-F or CR/NC) Four completions allowed. Transfer: CSU, UC (CC EMS 13)

HE 110—HEALTHFUL LIVING 3 Units
Consideration of factors in selection of a plan for healthful living. Emphasis on self-assessment through gathering and analyzing information to take charge of life while setting new goals. Focus on emotional, physical, and social wellness in achieving human potential. Lecture. Transfer: CSU, UC General Education (MJC-GE: E) (CSU-GE: E)

HE 111—WOMEN’S HEALTH ISSUES 3 Units

HE 118—EXERCISE AND NUTRITION FOR HEALTHY LIVING 3 Units
A consideration of factors in the selection of a plan for healthful living. Emphasis on self-assessment through gathering and analyzing information while setting new health goals. The course focuses on emotional, physical, social, spiritual, intellectual and environmental wellness in achieving human potential. Lecture. Transfer: CSU General Education: (MJC-GE: E)

HE 198A—SPECIAL TOPICS AND PROBLEMS 1-3 Units
Participation in discussion, analysis, and evaluation of a special topic or problem in health education. Topics announced each semester in schedule of classes. Field trips may be required. Four maximum completions. Lecture. Transfer: CSU.

NON-CREDIT COURSES

HE 805—COMMUNITY CPR 1 Unit
Development of knowledge and skills involved in artificial ventilation and circulation (CPR) for infant, child and adult. American Red Cross “Community CPR” card issued upon satisfactory completion. Unlimited repeats. Lecture/Laboratory.

Continued Ø
HIST (History)

HIST 101—HISTORY OF THE UNITED STATES THROUGH RECONSTRUCTION  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

U.S. history from pre-colonial indigenous America to the late 19th century. Causes, variations, and impacts of colonialism on Indigenous and European Americans. The movement toward national independence and the Revolutionary War will be examined. The constitution and resulting institutions will be analyzed. National expansion, reform and resulting regional/sectional social and political developments through the U.S. Civil War. Regional social, economic, and political analyses will emphasize the California State Constitution and local government. This course uses the early evolution of the relationships between local, State and Federal governments as a comparative framework for understanding contemporary relationships between local, State and Federal governments. Lecture. Transfer: CSU, UC (CAN HIST 8, CAN HIST SEQ B) (CC HIST 16) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 102—HISTORY OF THE UNITED STATES POST CIVIL WAR  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

U.S. history from the late 19th century until contemporary times. Local, state and national historic development will be traced with emphasis placed on American institutions and their role in the development of American culture. Special attention to U.S. urban and industrial processes; the country's international role and resulting institutional developments. The role of class and ethnicity will be integrated with comparisons tracing Europeans, Indigenous, and African American experiences. Analysis of the role of technology in the formation of America. The evolution of contemporary local, State and Federal governments as they relate to politics, economics and social movements is addressed. The gradual movement toward full inclusion of all peoples of America under State and Federal Constitutional law is emphasized. Lecture. Transfer: CSU, UC (CAN HIST 10, CAN HIST SEQ B) (CC HIST 17) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 104—WESTERN CIVILIZATIONS  3 Units

Recommended for success: Satisfactory completion of ENGL 50.

Survey of the social, economic, political, religious, intellectual, and cultural development of Western Civilization from the Neolithic to the Reformation. The course will emphasize a comparative approach to the study of ancient Mesopotamia, Egypt, and classical Greece, as well as between Rome and Byzantium. The last part of the course will stress the rise of Western Europe during the Middle Ages up to 1600, with special attention on its economic and political transformations. The development and expansion of the major monotheistic religions (Judaism, Christianity, and Islam) will be central to this course. Lecture. Transfer: CSU, UC (CAN HIST 2) General Education: (MJC-GE: C) (CSU-GE: D6) (IGETC: 4)

HIST 105—WESTERN CIVILIZATION  3 Units

Survey of the political, economic, social and cultural changes in the history of Western civilization from 17th century Absolutism to the present. Lecture. Transfer: CSU, UC (CAN HIST 4, CAN HIST SEQ A) General Education: (MJC-GE: C) (CSU-GE: D6) (IGETC: 4)

HIST 106—WORLD CIVILIZATION TO THE 16TH CENTURY  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

A comparative and interactive investigation and analysis of World Civilization as related to the development of the modern world. Five geographic regions surveyed include: North America, South America, Asia/Pacific Rim, Europe, and Africa. Students will become acquainted with the major events and significant trends in world history from antiquity to the sixteenth century. Historical methodologies and interpretations will be addressed through analysis of political, economic, technological, social and cultural commonalities and differences between civilizations. World civilization examines issues relevant to understanding race, culture, ethnicity, class, gender, religion, disability and sexualities in human history. Field trips may be required. Lecture. Transfer: CSU, UC (CAN HIST 14) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 107—WORLD CIVILIZATION FROM THE 16TH CENTURY  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

A comparative and interactive investigation and analysis of World Civilization as related to the development of the modern world. Five geographic regions surveyed include: North America, South America, Asia/Pacific Rim, Europe, and Africa. Students will become acquainted with the major events and significant trends in world history from the sixteenth century to the modern time. Historical methodologies and interpretations will be addressed through analysis of political, economic, technological, social and cultural commonalities and differences between civilizations. World civilization examines issues relevant to understanding race, culture, ethnicity, class, gender, religion, disability and sexualities in human history. Field trips may be required. Lecture. Transfer: CSU, UC (CAN HIST 16) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 112—TWENTIETH CENTURY AMERICA  3 Units

Explores the political, economic, social and cultural developments of twenty century United States history. Lecture. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 113—SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES PRIOR TO THE 20TH CENTURY  3 Units

Recommended for Success: Satisfactory completion of ENGL 101


HIST 115—ECONOMIC HISTORY OF THE UNITED STATES  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

Also offered as ECON 115

Analysis of origins and development of business, labor and agriculture from the colonial period to the present. Emphasis on the federal government’s part in the development and regulation of business, labor and agriculture; the government’s role in the national economic process. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D2, D6)

HIST 116—WOMEN IN AMERICAN HISTORY  3 Units

Review and evaluation of the role of women in the United States and their contributions from the pre-colonial period to the present viewed within the context of United States and global experiences. The diversity of experience, according to socio-economic class, ethnicity, religion, region, and sexual orientation, will be emphasized, including Native American Indian, African American, European American, Latina, and Asian American women in the United States history. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D6) (IGETC: 4)

HIST 119—SOCIAL AND CULTURAL HISTORY OF 20TH CENTURY AMERICA  3 Units

Recommended for Success: Satisfactory completion of ENGL 101

Formerly listed as HIST 113.

Examines the development of American society and culture in the 20th and 21st centuries. Specifically analyzes American political and economic institutions and their interaction with Latino/Chicano, African American, European and Asian American ethnicities. Particular attention is given to various historic and contemporary civil and human rights movements. Critical evaluation of the developing role of local, State and Federal government in the inclusion of ethnic and gender participation. The gradual movement toward full protection of all peoples of America under State and Federal constitutional law is emphasized. The effects of U.S. foreign and domestic policies on first and third world nations will be evaluated. Lecture. Transfer: CSU, UC General Education: (MJC-GE:B) (CSU-GE: D6) (IGETC: 4)

Continued ♦
HIST 125—HISTORY OF MEXICO 3 Units
Introduction to the history of Mexico from the pre-European conquest of Mesoamerica to the present. Emphasizes the social, political, economic, and cultural repercussions of the conquest of Mexico by Spain; the development of a Mexican identity during and after the colonial period; the causes, nature, and consequences of the wars for independence; the pains of nationhood; the modernization of Mexico during the rule of Porfirio Díaz; and the Mexican revolution and its aftermath. Special attention will be given to the issues of class, race, ethnicity, gender, and religion. Lecture. Field trips may be required. Transfer: CSU, UC General Education: (CSU-GE: D3, D6) (IGETC: 4)

HIST 128—HISTORY OF THE AMERICAN FAR WESTERN FRONTIER 3 Units
A regional history of frontier life in the trans-Mississippi west during the 19th century, including early exploration through the fur trade, territorial expansion, and the mining and farming frontier. Special emphasis is given to the contribution of Native Americans and Asian, African, Iberian, and Mexican cultures in shaping the character of the American West. Field trips may be required. Lecture. Transfer: CSU, UC (CC HIST 55) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4)

HIST 129—HISTORY OF CALIFORNIA 3 Units
California from pre-Colonial times to the present. Includes social, economic, political and cultural topics. Special emphasis is given to the contribution of Native Americans and Asian, African, Iberian, and Mexican cultures in shaping the character of California. Lecture. Transfer: CSU, UC (CC HIST 11) General Education: (CSU-GE: D6) (IGETC: 4)

HIST 145—LATIN AMERICAN HISTORY 3 Units
Latin American history from the pre-conquest to the present; emphasizes changes and continuities in the political, economic, social, and cultural life of the continent. Examines issues of development and underdevelopment, ideas of race and ethnicity, relationship to the outside world, the construction of the nation-state, gender and social movements. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D3, D6) (IGETC: 4)

HIST 154—AFRICAN AMERICANS THROUGH THE 19TH CENTURY 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
A political, economic, technological and social history of African-American culture from early African forms through late 19th century America. Specific analysis of complex relationships between European, indigenous American and African-American ethnic groups. This means frank inquiry into race, gender, and class disparities. Special emphasis on contributions to American society and culture by Black peoples. Comparisons of ethnic inclusion struggles and marginalization. Emphasis on the evolution of State and Federal Constitutional government and the principle of ethnic parity, disparity, and inclusion. Contemporary and historic local, State, and Federal government developments are analyzed in relation to political and social movements as a foundation for contemporary activism for human rights, and economic justice. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D3, D6) (IGETC: 4)

HIST 155—AFRICAN AMERICANS IN THE 20TH AND 21ST CENTURIES 3 Units
Recommended for Success: ENGL 101
A political, economic, technological, and social history of African Americans from the end of the 19th century through the early 21st century. Specific analysis of complex relationships between European Americans, Latin/Chicano Americans, and African American ethnic groups. This means frank inquiry into race, gender, and class disparities. Ongoing struggles for ethnic self-determination and inclusion are contrasted against institutional resistance and social marginalization. Emphasis on the evolution of State and Federal Constitutional government and the struggle for ethnic parity, disparity, and inclusion. Contemporary and historic local, State, and Federal government developments are analyzed in relation to political and social movements as a foundation for contemporary activism for human rights, and economic justice. Lecture. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D3, D6) (IGETC: 4)

HUMAN 101—INTRODUCTION TO THE HUMANITIES 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Introduction to major works of the humanities that focuses on the diversity of human experience and the relationships among arts and ideas. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 105—EARLY HUMANISTIC TRADITIONS 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Examination of creative and intellectual achievements from cultures of the world beginning with Prehistory and extending to the Renaissance. Lecture. Field trips may be required. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 106—HUMANITIES IN THE MODERN WORLD 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Study of creative and intellectual achievements from cultures of the world, beginning with 1600’s and extending into the 20th centuries. Lecture. Field trips may be required. Not offered every semester. (A-F or CR/NC) Transfer: CSU, UC (CC HUMAN 2) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 110—EAST MEETS WEST 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
Differences between Eastern and Western world cultures are explored. Works studied are chosen from the fields of art, music, philosophy, literature and/or architecture. Field trips may be required. Lecture. (A-F or CR/NC) (Fall) Transfer: CSU, UC (CC HUMAN 3) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 130—INTRODUCTION TO WESTERN RELIGIONS 3 Units
Origins and development of the three monotheistic religions of Western civilization, Judaism, Christianity, and Islam: scripture, beliefs, traditions, rituals, and celebrations; scriptures of all three faiths, along with the architecture and art. Lecture. (A-F Only) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 140—INTRODUCTION TO WORLD MYTHOLOGY 3 Units
Recommended for Success: Satisfactory completion of ENGL 101
An overview of mythology which examines the nature, functions, and meanings of myths throughout the world, their cultural contexts, artistic expressions, and influence on contemporary life. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE:C)

HUMSR (Human Services)

The Modesto Junior College Human Services programs provide knowledge and skills involved with the delivery of a wide variety of social services through various community social work and counseling agencies.

The two-year programs are designed to prepare students for entry-level employment in human service organizations as well as to upgrade current employees. They also provide a basis for future academic training leading to degrees in Social Work, Sociology, and Psychology.

Continued...
HUMSR 40—INDEPENDENT LIVING SKILLS 1½ Units
Non-degree course.
Provides foster youth ages 16-18 knowledge and skills needed to assist them in making transition from foster care to independent living. Four maximum completions. Field trips may be required. Lecture. (CR/NC Only)

HUMSR 101—INTRODUCTION TO HUMAN SERVICES 3 Units
Development of human services in American society by private and governmental agencies at national, state, and local levels. Emphasis on contemporary programs and practices, needs served, and projected changes. Preparation for “new careers” in paraprofessional programs in the health, education and social services, such as eligibility workers, counselor aides, vocational rehabilitation aides, social service technicians, and pre-professional positions. Field trips may be required. Lecture. Transfer: CSU General Education: (MJC-GE: B)

HUMSR 103—INTRODUCTION TO HUMAN SERVICES CAREERS ½ Unit
Discussion of academic and personal qualities for success in the human services field. Students will develop a personal plan for meeting academic requirements, acquisition of necessary skills for entry into employment or further educational options. Lecture. Transfer: CSU

HUMSR 104—AGING IN AMERICA 3 Units
Also offered as GERON 101.
Analysis of the aging process from a multidisciplinary approach, including sociology, psychology, and physiology. Students will have an opportunity to explore their beliefs, feelings, and values regarding the aged population. Field trips may be required. CR/NC Only option. Lecture. Transfer: CSU

HUMSR 110—INTRODUCTION TO INTERVIEWING, COUNSELING 3 Units
Principles and practices of interviewing and counseling. Designed to assist in the preparation of paraprofessionals in the human services fields. Recognition and discussion of unique and common problems, and understanding of behavioral change. Lecture. Transfer: CSU

HUMSR 111—COUNSELING IN CHEMICAL DEPENDENCY 3 Units
Recommended for Success: Satisfactory completion of HUMSR 110
Survey theories of therapy, personality, and counseling relevant to chemical dependency. Identification and assessment techniques. Lecture. Transfer: CSU

HUMSR 113—CO-OCCURRING DISORDERS 3 Units
Introduction to the treatment needs of individuals who are diagnosed with a psychiatric disorder in combination with a chemical dependency disorder. Students will learn to identify, assess, and offer treatment to those with a dual diagnosis/co-occurring disorder. One completion allowed. Field trips may be required. (A-F only) Lecture.

HUMSR 114—DEATH AND DYING 3 Units
Opportunity for students to explore their feelings, beliefs, and values regarding death, and to learn about death and dying from a variety of perspectives. Topics include: coping with death, cultural concepts of death, counseling the dying throughout the age span, suicide, grief and bereavement, wills, the funeral business, and medical ethics. Field trips required. Lecture. Transfer: CSU (CC SOCIO 28)

HUMSR 116—DRUGS AND ALCOHOL IN SOCIETY 3 Units
An introductory course focused on problems associated with chemical dependency: alcohol and drug abuse. Covers possible causes for addiction, identification of symptoms and common myths. Provides information on treatment resources. Cultural considerations in substance use/abuse and corresponding treatment and prevention aspects. Forty-five hours of BRN C.E. credit available. Field trips may be required. Lecture. Transfer: CSU

HUMSR 117—INTERVENTION AND TREATMENT STRATEGIES IN CHEMICAL DEPENDENCY 3 Units
Prerequisite: Satisfactory completion of HUMSR 111 and 116.
Application of techniques relative to treatment of chemical dependency. Emphasizes the intervention process, individual and family treatment, and recovery dynamics. Field trips may be required. Lecture. Transfer: CSU

HUMSR 118—PHARMACOLOGY OF ABUSED SUBSTANCES 3 Units
Also listed as PSYCH 118.
Recommended for Success: HUMSR 116 or PSYCH 101.
An introduction to psychopharmacology and the process of drug addiction. Topics include classification of abused and psychotherapeutic drugs, basic principles of pharmacology, behavioral and psychological effects of drugs, major neurotransmitters and systems and how they are influenced by drugs. Lecture. Transfer: CSU

HUMSR 119—INTRODUCTION TO GROUP LEADERSHIP AND GROUP PROCESS 3 Units
An introduction to the dynamics of group interaction with an emphasis upon the individuals’ subjective experience as the group studies itself (under supervision). The factors involved in problems of communication, effective emotional responses, and personal growth will be highlighted. Emphasis on group process as a means of changing individual behavior. Field trips may be required. (A-F only) One completion allowed. Lecture. Transfer: CSU

HUMSR 120—PROFESSIONAL DEVELOPMENT IN CHEMICAL DEPENDENCY COUNSELING 3 Units
Prerequisite: Satisfactory completion of HUMSR 117
Recommended for Success: Satisfactory completion of HUMSR 110
Provides information and guidance for those choosing a career in chemical dependency counseling. Focuses on ethical issues and survival skills necessary for professional development in the field. Lecture. Transfer: CSU

HUMSR 145—COMMUNITY AGENCY SERVICE 1 Unit
Prerequisite: Satisfactory completion of HUMSR 110 or 111.
Concurrent Enrollment: HUMSR 145A or 145B or 145D.
Analysis of field experiences of students concurrently enrolled in HUMSR 145A or 145B or HUMSR 145D. Class time is devoted to sharing and evaluating problems which develop and ways of resolving them will be sought by class members. Three maximum completions. Lecture. Transfer: CSU

HUMSR 145A, 145B, 145D—COMMUNITY AGENCY SERVICE FIELDWORK 1,2,4 Units
Prerequisite: Satisfactory completion of HUMSR 110 or 111.
Concurrent Enrollment: HUMSR 145
Supervised field experience in a variety of community social agencies. Three maximum completions in any combination of HUMSR 145A, B, and D. Laboratory: supervised field experience in a community service/social agency. Transfer: CSU

IIS (Individualized Instruction and Services)

IIS 13—IMPROVING LEARNING POTENTIAL 2 Units
Non-degree course.
Specialized computer-assisted instruction for students with disabilities to maximize their learning potential and increase academic efficiency. Four maximum completions. Lecture/Laboratory. (CR/NC Only)

IIS 15—ADAPTED KEYBOARDING 2 Units
Non-degree course.
Designed to teach keyboarding basics to students with disabilities who must use adaptive technologies for successful access to the keyboard or screen and/or are unable to compete successfully in mainstream typing classes. Four maximum completions. Lecture/Laboratory.

IIS 16—COMPUTER ACCESS 1 2 Units
Non-degree course.
Designed for students with visual, physical, acquired brain injury, language impairment, learning disabilities or deafness. Provides training in the use of computer access technologies which enhance a disabled student’s ability to access and use microcomputers. Four maximum completions. Lecture/Laboratory.
IIS 18—COMPUTER ACCESS PROJECTS 2 Units
Non-degree course.
Designed for students with disabilities who require access to specialized adaptive technologies in order to complete assignments for other classes in which they are concurrently enrolled. Four maximum completions. Lecture/Laboratory.

IIS 20—MATH STRATEGIES FOR SUCCESS FOR STUDENTS WITH DISABILITIES 1 Unit
Non-degree course.
Intended for students with disabilities who need additional instruction and compensatory strategies to learn to be successful within the traditional classroom. Specialized instruction will occur in basic skills and in formulating efficient test taking and study strategies for math learning. Four maximum completions. Lecture.

IIS 21—MAKING THE MOVE: TRANSITION TO COLLEGE 1 Unit
Non-degree course.
Intended for new and re-entry students with disabilities who need additional instruction and compensatory strategies to learn and be successful within the traditional classroom. Specialized instruction will occur in disability awareness and in formulating strategies for success in the college environment. Four maximum completions. Lecture.

INDIS (Interdisciplinary Studies)
An Alternative Academic Experience (Formerly the Scholars Project)
The Interdisciplinary Studies Program emphasizes critical thinking, communication skills, and independent work. Students are accepted into the program not solely on the basis of past achievement but, most importantly, on their willingness to become members of an intellectually stimulating, interactive learning community.

INDIS 55—INTRODUCTION TO WOMEN’S STUDIES 3 Units
Interdisciplinary approach to the study of women and gender. Fundamental concepts in women’s studies. Modules in social sciences, arts, humanities and natural sciences. Field trips may be required. Lecture. General Education: (MJC-GE: B, C)

INDIS 61—HOLLYWOOD TODAY 2 Units
A non-technical, non-transfer course for the consumer of popular contemporary films, emphasizing the central elements of film in the development of audience response. Lecture, viewing, discussion. Four maximum completions. Lecture. Fee to cover admission.

INDIS 105—INTRODUCTION TO WOMEN’S STUDIES 3 Units
Recommended for Success: Satisfactory completion of ENGL 50
Interdisciplinary approach to the study of women and gender. Introduction to the concepts, philosophies, and terminology of women’s studies. Modules in social sciences, arts, humanities and natural sciences. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C)

INTDS (Interior Design)
Course content within the Interior Design program emphasizes the home and the workplace as the environment created by individuals in response to their family and work interests and needs. Focus is placed not only on the physical set-up of the structure and interior but also on the psychological and sociological effects of the environment on the people who function within it. Product knowledge is emphasized as students learn to keep up with what is in demand as lifestyles and tastes change.

INTDS 100—CAREERS IN DESIGN 2 Units
Introduction to educational and interior design employment opportunities. Includes portfolio and educational plan development and curriculum requirement that pertain to educational goals as they relate to interior design majors. Emphasizes personal, educational, and professional qualifications required for success in obtaining, maintaining, and advancing in the field of interior design and related professions. One completion allowed. Field trips may be required. (A-F or CR/NC). Transfer: CSU.

INTDS 155—HISTORY OF INTERIOR DESIGN AND FURNISHINGS II 3 Units
Survey of the historical relationship between interior architecture, furniture, and decorative arts. Overview of styles from the Classical Revival period of the nineteenth century through the present time. Social, economic, technological influences and innovations are emphasized. Field trips may be required. (A-F or CR/NC) One completion allowed. Transfer: (CSU)

INTDS 200—INTERIOR DESIGN FUNDAMENTALS 3 Units
Overview of interior design and furnishings. Study and application of principles of color and design, period influences, selection and arrangement of decorative materials, organized selection of furnishings and materials. Includes consumer and socioeconomic considerations. Field trips may be required. Lecture. Transfer: CSU

INTDS 201—HOUSING CONCEPTS 3 Units
Psychological, sociological, and physical requirements of a well designed home. The lifespan needs of individual family members, the development of a house plan, and the importance of spatial design in floor composition. Building codes and systems identified. Field trips required. Lecture. Transfer: CSU

INTDS 202—PERIOD/CONTEMPORARY FURNITURE 3 Units
Foundations of architecture and furniture styles from ancient Egypt through Victorian Period and the Industrial Revolution to the present. Description of dominate influences and characteristics of historical interiors, furniture, and ornamental design. Field trips may be required. Lecture: 3 hours. Transfer: CSU

INTDS 204—INTERIOR ENVIRONMENT 3 Units
The theory and application of the principles and elements of design. The use of color and the importance of backgrounds. The use of accessories and decorative objects in a home. Field trips required. Lecture. Transfer: CSU

INTDS 205—COMMERCIAL FACILITY PLANNING 3 Units
Recommended for Success: Satisfactory completion of ARCH 331, INTDS 201 or 200.
An overview of the elements to be considered when planning a functional and well designed office environment. Technological focus as well as product knowledge. How to plan with systems furniture. Technological demands involved in design solutions. Field trips may be required. Lecture. Transfer: CSU

INTDS 206—COMPUTERIZED INTERIOR DESIGN 2 Units
Prerequisite: Satisfactory completion of INTDS 200
Students will prepare interior design solutions using computer-aided design software. The class is appropriate for students who are already familiar with interior design concepts and techniques. Two maximum completions. Lecture/Laboratory/Other. Transfer: CSU

INTDS 210—INTRODUCTION TO SALES AND MARKETING FOR DESIGN 3 Units
Introduction to sales psychology and the principles of marketing and business development for design. Increasing success in the workplace by building client relationships, understanding client needs and wants, and finding a niche. Focus on marketing methods, branding, ethics, selling design services, communication and presentation techniques, and effective use of technology. Field trips may be required. (A-F and CR/NC). One completion allowed. Transfer: (CSU)

INTDS 230—DRAFTING AND SPACE PLANNING FOR INTERIORS 3 Units
Introduction to tools and techniques specific to drafting of interior spaces. Development of floor plans, sections, elevations, cabinetry and reflected ceiling plans relating to interior design. Incorporation of space planning, ADA guidelines, building codes, concepts of universal and lifetime design, and visual presentations. Lecture/Lab. (A-F or CR/NC) Field trips may be completed. One completion allowed. Transfer: CSU
INTDS 240—RESIDENTIAL PLANNING  
2 Units  
Recommended for Success: Satisfactory completion of ARCH 131 or 331, and ARCH 112.  
A study of residential planning with special emphasis on kitchens and bathrooms. Space utilization, materials, building codes, equipment, decoration and furnishings of residences. Field trips required. Lecture/Laboratory. (Spring) Transfer: CSU

INTDS 250—COMPUTER AIDED DRAFTING/DESIGN FOR INTERIOR DESIGN  
3 Units  
Prerequisite: Successful completion of INTDS 200.  
Overview and application of the basic skills and techniques of Computer Aided Drafting/Design (CADD) using designer-specific software. Floor plans, space planning, elevations and client needs are emphasized. Principles and elements of design as well as the ADA and NKBA guidelines will be applied to interior architecture, layout, lighting, finish materials and furnishings. Field trips may be required. One completion allowed. Lecture/Lab. (A-F or CR/NC) Transfer: (CSU)

INTDS 260—TEXTILES FOR FASHION AND INTERIORS  
3 Units  
Also offered as FASMR 200.  
An introduction to natural and manufactured textiles focusing on both the apparel and furnishings markets including the influence of textiles on product development. Field trips required. Lecture. (Spring) Transfer: CSU, UC

INTDS 375—HOME MERCHANDISING & DESIGN  
2 Units  
Formerly offered as FASMR 375.  
Overview of the home merchandising and design profession, its related specialties, disciplines, the design process and presentation formats. Includes techniques for estimating material cost and time, furniture marketing, product knowledge, lifestyle concepts, and global trends. Field trips required. Lecture/Laboratory. Not offered every semester.

INTDS 200—INTRODUCTION TO MECHANICAL TECHNOLOGY  
3 Units  
Also offered as AGM 200.  
Basics in woodworking, cold metal, forging, plumbing and welding as related to farm maintenance and repair. Designed for agricultural students who need development in basic mechanical skills. Field trips may be required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU (CAN AG 4)

INTDC 201—INTRODUCTION TO INDUSTRIAL OPERATIONS  
3 Units  
Introduction to policies, procedures, terminology, reports, federal and state law, safety, team building and quality programs of modern industrial and processing plants. Field trips may be required. Three maximum completions. Lecture. Transfer: CSU.

INTDC 202—FUNDAMENTALS OF INDUSTRIAL TECHNOLOGY  
2 Units  
Students will explore common industrial production, manufacturing and fabrication processes. Field trips required. Three maximum completions. Lecture/Laboratory. Transfer: CSU.

INTDC 203—INDUSTRIAL MECHANICAL COMPONENTS AND EQUIPMENT  
3 Units  
Recommended for Success: Satisfactory completion of INTDC 202.  
An introduction to common mechanical components and related equipment found in the manufacturing and processing industry. Content includes basic terminology, operation, installation and maintenance of both individual mechanical components and mechanical systems. Field trips may be required. Three maximum completions. Lecture/Laboratory. Transfer: CSU.

INTDC 205—PRINCIPLES OF QUALITY CONTROL SYSTEMS  
3 Units  
Recommended for Success: Satisfactory completion of INTDC 201, 202, 203, 261 or industry experience.  
Principles of quality control, quality improvement methodology, and quality commitments of industrial corporations. Field trips may be required. Three maximum completions. Lecture. Transfer: CSU.

INTDC 208—THE WORLD OF ELECTRICITY AND ELECTRONICS  
3 Units  
Recommended for Success: Satisfactory completion of MATH 20  
Also offered as ELTEC 208.  
An overview of electrical and electronic phenomena as applied to common consumer and industrial devices. The course examines the physical nature of electricity and magnetism and the application of the scientific method. The historical development and the socio-economic aspects of the “electronic age” are examined. Lecture/Laboratory. Materials fee required. Guidance. Transfer: CSU.

INTDC 221—INSTRUMENTATION DEVICES AND SYSTEMS  
3 Units  
Prerequisite: Satisfactory completion of ELTEC 211 or 208.  
Formerly listed as INDE 221.  
Also offered as ELTEC 211.  
An introduction to industrial instrumentation devices and systems. The principles and operation of mechanical and electrical transducers. Analysis of industrial instrumentation systems. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

INTDC 223—INDUSTRIAL ELECTRICAL COMPONENTS AND CONTROL DEVICES  
3 Units  
Formerly listed as INDE 223.  
Also offered as ELTEC 223.  
An introduction to common components and control devices found in the manufacturing and processing industry. Content includes basic terminology, component identification, manufacturer’s specifications, and maintenance procedures for the components and devices. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

INTDC 225—RESIDENTIAL AND FARMSTEAD ELECTRICAL WIRING AND PRINCIPLES  
3 Units  
Formerly listed as ELECT 225.  
Also offered as AGM 225.  
Fundamental principles, systems, and applications of electrical energy and the equipment necessary to manually or automatically control that energy. Field trips required. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU
INTEC 226—MOTORS, CONTROLS AND CONTROLLERS 3 Units
Prerequisite: Satisfactory completion of ELTEC 211 and 208.
Formerly listed as INDED 226.
Also offered as ELTEC 226.
An introduction to AC and DC motors and the circuits which control them. Use and programming of variable frequency drive motor controllers. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: CSU

INTEC 248—ELECTRICAL CODES AND ORDINANCES 3 Units
Formerly listed as INDED 393.
Interpretation and application of national, state and local codes and ordinances which regulate the installation and maintenance of electrical circuits and equipment. Four maximum completions. Lecture. (A-F Only) Transfer: CSU

INTEC 249—ANALYSIS OF ELECTRICAL CODES 3 Units
Prerequisite: Satisfactory completion of INTEC 248
Formerly listed as INDED 394.
Continuation of INTEC 248. Training in analysis of national, state and local codes and ordinances which regulate installation, alteration and maintenance of electrical circuits and equipment. Lecture. Three maximum completions. (A-F Only) (Spring) Transfer: CSU

INTEC 261—INTRODUCTION TO PLANT MAINTENANCE 3 Units
Formerly listed as INDED 361.
Basic principles, methods of operation and maintenance procedures for equipment and systems of modern industrial and processing plants. Four maximum completions. Lecture. (A-F Only) Transfer: CSU

INTEC 262—HYDRAULICS/PNEUMATICS 3 Units
Formerly listed as INDED 362.
Also offered as AGM 262.
Principles and practices of hydraulics/pneumatics as used in the industry. Study of the different applications and management of hydraulics for the most efficient use. Basic pneumatic principles and application systems. Field trips may be required. Two maximum completions. Lecture. Transfer: CSU

INTEC 265—TROUBLESHOOTING TECHNIQUES 1 Unit
Also offered as ELTEC 265.
Common troubleshooting methodologies used in manufacturing today. One-solution and multiple-solution problems commonly found in everyday life through industrial processes. Prepares students to actively solve problems in personal and professional life. Lecture. Transfer: CSU

INTEC 301—EMPLOYABILITY SKILLS 1 2 Units
Also offered as FCS 301.
Development of basic background in non-technical skills (S.C.A.N.S.) that will increase a person’s employability in the Family and Consumer Sciences and Industrial Technology related occupations. Topics will include: Team Building, Safety, Time and Money Management. Field trips may be required. Lecture/Laboratory.

INTEC 302—EMPLOYABILITY SKILLS 2 2 Units
Also offered as FCS 302.
Development of basic background in non-technical skills (S.C.A.N.S.) that will increase a person’s employability in the Family and Consumer Sciences and Industrial Technology related occupations. Topics will include: Leadership, Safety, Industry Expectations. Field trips may be required. Lecture/Laboratory.

INTEC 303 – INTRODUCTION TO TEAMWORK DEVELOPMENT FOR INDUSTRY 1 Unit
Interdisciplinary approach to the study of team solutions to industrial problems. Introduction to team member selection criteria, development of team cohesiveness, team solutions to realistic industry problems, and use of computer software to solve and present team solutions. Modules in communications, computer application and industrial technology. Lecture.

INTEC 306—INTRODUCTION TO OCCUPATIONAL SAFETY & HEALTH 3 Units
Formerly listed as INS AF 361.
Introduction to the principles and techniques of occupational safety and health. Lecture. (A-F Only)

INTEC 312—BEARINGS ½ Unit
A descriptive introduction to the common industrial bearing. Content includes basic terminology, operation and maintenance of journal bearings, ball and roller bearings, bearing seals, bearing lubrication, and bearing maintenance. Lecture.

INTEC 313—LUBRICATION ½ Unit
A descriptive introduction to the characteristics and functions of lubricants. Content includes basic terminology, function and application of lubricants. Use of oils and greases in lubrication systems. Lecture.

INTEC 314—POWER TRANSMISSION DEVICES 1 Unit
A descriptive introduction to the basic elements commonly used in power transmission systems. Content includes basic terminology, operation and maintenance of both individual power transmission components and simple power transmission systems. Lecture.

INTEC 315—POWER TRANSMISSION DEVICES AND SYSTEMS 1½ Units
Introduction to the elements of power transmission systems. Content includes the operation of basic power transmission components and the development of power transmission systems. Hands-on experience with the installation, operation, maintenance and trouble shooting of power transmission systems. Lecture/Laboratory.

INTEC 316—INDUSTRIAL HYDRAULICS 1 Unit
Descriptive introduction to industrial hydraulics components and systems. Content includes description and function of various hydraulic components and the basic aspects of hydraulic systems. Lecture/Laboratory.

INTEC 317—INDUSTRIAL HYDRAULIC COMPONENTS AND SYSTEMS 1½ Units
Introduction to industrial hydraulics components and systems. Content includes basic hydraulic principles, hydraulic pumps, control valves and cylinders. Hands-on experience with the installation, operation, maintenance and troubleshooting of hydraulic systems. Lecture/Laboratory.

INTEC 318—INDUSTRIAL PNEUMATICS 1 Unit
Descriptive introduction to industrial pneumatic components and systems. Content includes description of various pneumatic components and the basic aspects of pneumatic systems. Lecture/Laboratory.

INTEC 319—INDUSTRIAL PNEUMATIC COMPONENTS AND SYSTEMS 1½ Units
Introduction to industrial pneumatics components and systems. Content includes compressible fluid principles, metallic and organic pneumatic components and pneumatic control devices. Hands-on experience with the installation, operation, maintenance and troubleshooting of pneumatic systems. Lecture/Laboratory.

INTEC 320—ELECTRICAL SAFETY 1 Unit
Also offered as ELTEC 320.

INTEC 325—TEMPERATURE MEASUREMENT ½ Unit

INTEC 326—FLOW MEASUREMENT ½ Unit

Continued
INTEC 327—PRESSURE MEASUREMENT  ½ Unit
An introduction to pressure measurement in liquids and gases. Principles of elastic and electrical pressure sensing elements. Selection, installation, and maintenance of pressure sensors in industrial systems. Lecture.

INTEC 340—UNIFORM BUILDING CODE, STRUCTURAL  3 Units
Formerly listed as INDE 369.
Review of building plans for compliance with structural engineering requirements as per the Uniform Building Code. Four maximum completions. Lecture. (A-F Only)

INTEC 341—UNIFORM BUILDING CODE, NON-STRUCTURAL  3 Units
Formerly listed as INDE 370.
Review of building plans for compliance with non-structural requirements such as occupancy types and life-safety requirements as per the Uniform Building Code. Four maximum completions. Lecture. (A-F Only)

INTEC 344—UNIFORM MECHANICAL CODE  3 Units
Formerly listed as INDE 371.
Minimum code requirements for the installation of heating, ventilating, cooling, and refrigeration systems in residential and commercial applications. Four maximum completions. Lecture. (A-F Only)

INTEC 346—ENFORCEMENT OF BUILDING REPAIR AND ABATEMENT REGULATIONS  3 Units
Formerly listed as INDE 374.
General review of housing regulations and their application to existing structures. Four maximum completions. Lecture. (A-F Only)

INTEC 350—INDUSTRIAL TECHNOLOGY INTERNSHIP  2 Units
Prerequisite: Minimum of 15 units completed in Industrial Technology major. Supervised field experience in Industrial Technology. Study and research related to job training. Current technical developments in industry. Two maximum completions. Lecture. Field experience arranged. (CR/NC Only) (Spring)

INTEC 362—INDUSTRIAL REFRIGERATION SYSTEMS  2 Units
Recommended for Success: Satisfactory completion of INTEC 50
Formerly listed as INDE 363.
Principles underlying heat transfer as used in refrigeration systems. Explanation of devices and equipment used in such systems. Lecture/Laboratory. Four maximum completions. (A-F Only)

INTEC 364—PRESSURE SYSTEMS  2 Units
Formerly listed as INDE 365.
Principles involved in generating, transferring, controlling and utilizing heat and energy. Survey of equipment used in these processes. Four maximum completions. Lecture/Laboratory. (A-F Only)

INTEC 366—HEATING VENTILATION, AIR CONDITIONING AND REFRIGERATION  2 Units
Formerly listed as INDE 366.
Principles of installation and maintenance of heating and cooling systems in residential and industrial facilities. Four maximum completions. Lecture/Laboratory. (A-F Only)

INTEC 367—PLUMBING PRINCIPLES AND METHODS  2 Units
Formerly listed as INDE 368.
Principles of design, installation, and maintenance, and troubleshooting of residential and commercial pipe fitting and plumbing. Discussions and activities involve application of standard plumbing practice. Field trips may be required. Lecture/Laboratory. One completion. (A-F Only)

INTEC 379—UNIFORM PLUMBING CODE  3 Units
Formerly listed as INDE 379.
Installation and inspection of plumbing in the construction of residential units. Content based upon current Uniform Plumbing Code. Lecture. Four maximum completions. (A-F Only)

INTEC 380 – ELEMENTARY CARPENTRY AND CONSTRUCTION  5 Units
Designed to provide entry-level skills for students wanting to explore and enter the construction trades. Experiences in developing carpentry, construction, planning and employability skills used in the residential and commercial construction industry. Field trips may be required. Materials fees required. Lecture/Laboratory. (A-F Only)

INTEC 390, 390A,B—ADVANCED MANUFACTURING TRAINING  ½, 1, 2 Units
Advanced skills utilized in industry and needed by students working in the mechanical and automation areas of plant maintenance. Field trips may be required. Maximum of 10 units of INTEC 390 and INTEC 391 credit. Lecture. (A-F Only)

INTEC 391—ADVANCED MANUFACTURING TRAINING  ½ Units
Advanced skills utilized in industry and needed by students working in the mechanical and automation areas of plant maintenance. Field trips may be required. Maximum of 10 units of INTEC 390 and INTEC 391 credit. Lecture. (A-F Only)

ITAL (Italian)

ITAL 51—INTRODUCTION TO PRACTICAL ITALIAN I  3 Units
Basic conversational Italian for those who need it for their work, travel, or to prepare for Italian 101. Field trips may be required. Lecture/Laboratory.

ITAL 52—INTRODUCTION TO PRACTICAL ITALIAN II  3 Units
Recommended for Success: Satisfactory completion of ITAL 51
Continuation of ITAL 51. Review and expansion of essentials of Italian grammar and vocabulary through oral expression. Field trips may be required. Lecture/Laboratory.

JRNAL (Journalism)

JRNAL 100—REPORTING AND WRITING FOR THE MEDIA  3 Units
Recommended for Success: Satisfactory completion of ENGL 101 or strong writing skills and the ability to type.
Fundamentals of reporting ideas and information for the print, broadcast and “new” media, applied studies in researching and writing news, opinion and feature stories; interview techniques; developing news judgment; accuracy of information and expression, and legal and ethical aspects of the journalism profession. Prepares students to work on campus newspaper, radio and/or television stations and for higher education in these fields. Recommended for students interested in any branch of the media, including web site and Internet publications. Maximum one completion. Field trips may be required. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU, UC (CAN JOUR 2) (CC JRNAL 1)

JRNAL 120B, C—STUDENT NEWSPAPER PRODUCTION STAFF
Co-requisite: JRNAL 100
Production of the campus newspaper, including writing, editing, advertising sales and layout, page design, and paste-up preparation for printing. Students desiring a limited participation in newspaper production, such as graphics or layout only, or limited writing only should sign up for this section. Field trips may be required. Four maximum completions but not to exceed 12 units. Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU (CC JRNAL 10)

JRNAL 146B, C—NEWSPAPER PHOTO STAFF  2, 3 Units
Limitation on enrollment: Satisfactory completion of ART 170 or equivalent camera and darkroom skills.
Photo production for the college newspaper offering experience in taking photographs, printing, sizing, and designing photo essays. Student work is published regularly and can be used to build a portfolio. Some exposure to Photoshop. Field trips may be required. Three maximum completions not to exceed 6 units. Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU

Continued
LENF (Law Enforcement)

Ray Simon Criminal Justice Training Center is not located on either the East or West Campus. It is a "third campus" located off Crows Landing Road near Hackett Road. All LENF prefix classes are taught at the Center. The address is 3805 Compcopia Way, Modesto, California 95358. A map of the Center is depicted below:

**LENF 306—STRAIGHT STICK BATON** ½ Unit
Prerequisites: Student must be capable of strenuous physical activity including sufficient strength, endurance and body flexibility to accomplish class requirements. No felony convictions, or weapon restrictions.
Basic skills and principles of the legal, tactical and ethical use of the straight stick baton in self defense. Possession of a baton is prohibited by California Penal Code Section 12020 except as exempted by California Penal Code Section 12002. Four maximum completions. Lecture/Laboratory. Not offered every semester. (A-F Only)

**LENF 309—P.C. 832: ARREST COURSE** 2 Units
Prerequisites: No felony convictions.
Laws of arrest, search and seizure; methods of arrest; discretionary decision making. The Criminal Justice system, constitutional rights, communication, investigation and defensive tactics. Satisfies curriculum standards required by Penal Code Section 832. Four maximum completions. Lecture/Laboratory. Materials fee may be required for binder and handout materials. (A-F Only)

**LENF 310—P.C. 832: FIREARMS COURSE** ½ Unit
Prerequisites: No felony convictions or firearm restrictions.
Moral and safety aspects of firearms and range experience. Satisfies curriculum standards required by Penal Code Section 832. Four maximum completions. Lecture/Laboratory. Materials fee required. Students must provide handgun ammunition and hearing and eye protection. (CR/NC Only)

**LENF 314—INTERMEDIATE DEFENSIVE TACTICS** 1 Unit
Prerequisite: Satisfactory completion of LENF 388. Student must be capable of strenuous physical activity including sufficient strength, endurance and body flexibility to accomplish class requirements.
Intermediate skills in the legal, ethical and tactical use of unarmed defensive tactics, includes safety precautions, legal use of force, use of personal counter measures, control of resisting subjects and search techniques. Four maximum completions. Lecture/Laboratory. Not offered every semester.

**LENF 315—USE OF CHEMICAL AGENTS** ½ Unit
Prerequisites: No felony convictions or weapon restrictions.
Meets Commission on Peace Officer Standards and Training mandates for the possession and use of chemical agents. Course includes: legal aspects, civil liability, types and use of chemical agents. The tactical utilization of chemical agents; barricades, suspects; factors affecting the use and the ethical and procedural consideration. Participation in exposure to chemical agents - medical waiver required. Four maximum completions. Lecture/Laboratory. (CR/NC Only)

**LENF 316 – POLICE RESERVE MODULE LEVEL III** 2 Units
Prerequisite: Satisfactory completion of a POST English skills test and physical agility. Completion of POST PC 832 Arrest Control and Firearms (MJC LENF 309/310). Fingerprint clearance required by PC 11311.5. No felony convictions. No firearms restrictions. A valid permit to operate a motor vehicle is required (the equivalent of a State of California Class "C" license or higher)
Satisfies the POST requirements for Police Reserve Officer Level III. Taught in the modular format so that the student can work as a Police Reserve Officer Level III and continue taking the Reserve Officer Levels II and I to complete the Module Reserve Academy. Level III covers a wide range of classes including: professionalism, criminal law, search and seizure, investigative report writing, vehicle operations, crimes in progress, traffic enforcement, baton training, first aid/CPR and cultural diversity. Field trips may be required. Materials fee for POST workbooks, uniform and leather equipment. Laboratory. (A-F Only) (Spring)

**LENF 317 – POLICE RESERVE MODULE LEVEL II** 4 Units
Prerequisite: Satisfactory completion of LENF 309, 310 and 316. Police reserve Modular Level II is a P.O.S.T. certified course which prepares the student to be a Level II Police Reserve Officer in the State of California. Reserve Level II Officers can perform general law enforcement duties while under the supervision of either a Police Reserve Level I Officer or a Regular Sworn Police Officer. No felony convictions or restrictions. A valid California drivers license "Class C" or equivalent. Materials fee may be required for cardiopulmonary supplies for C.P.R. skills. Laboratory. (A-F Only) (Spring)

**LENF 318 – POLICE RESERVE MODULE LEVEL I** 11 Units
Prerequisite: Satisfactory completion of LENF 309, 310, 316 and 317. Satisfactory completion of a POST English skills test and physical agility test. No felony convictions. No firearms restrictions. A valid permit to operate a motor vehicle is required. Successfully complete the POST mid-term exam for entry into Police Reserve Modular Level 1.
The terminal module to complete the requisite hours of instruction to receive the Module Reserve Certificate to be qualified for employment as a Regular Sworn Police Officer or a Police Reserve Officer Level I in the State of California. Topics covered in this course are a continuation of the POST Learning Domains from Levels III and II. The following domains will be covered: community relations, firearms, arrest and control/baton, victimology/crisis intervention, investigative report writing, handling disputes, unusual occurrences, physical training, crimes in progress, use of force, vehicle pullovers, cultural diversity, hazardous materials, domestic violence, defensive tactics, introduction to traffic, vehicle operations, scenario-role playing exercises, courtroom demeanor and gangs. Field trips may be required. Materials fee for POST student workbooks, EVOC training, uniform. Laboratory. (A-F Only) (Fall)

**PENAL CODE (P.C.)**

Penal Code (P.C.) Courses involve the handling of firearms, tear gas, or baton. They are not open to individuals who have been convicted of a felony or who have weapon restriction imposed by law.

Prior to use of a firearm in any course, each student must sign a declaration to the effect that he/she is not prohibited from such use by Penal Code Section 12021, Federal domestic violence laws, or other statutes.
LENF 330 – GANG AWARENESS UPDATE ½ Unit
Prerequisite: Satisfactory completion of LENF 388 or equivalent.
Designed to aid uniformed personnel in identifying gang members by manner of dress, hand signals, graffiti and activities. Course covers California gangs, criminal street gangs and prison gangs. Students will also learn investigation and prosecution techniques pertaining to PC 186.22 cases as well as techniques to investigate graffiti “tagging” cases. Field trips may be required. Three maximum completions. Lecture.
Materials fee required. Not offered every semester.

LENF 332—TRAFFIC ACCIDENT INVESTIGATION 2 Units
Prerequisite: Satisfactory completion of LENF 388
Study of Vehicle Code, primary collision-causing violations, standardized accident reporting, accident investigation scene procedures. Field trips may be required. Lecture. Not offered every semester. (A-F Only)

LENF 334—LAW ENFORCEMENT SUPERVISION 3 Units
Prerequisite: Satisfactory completion of LENF 388
Examination of organizational, managerial and supervisory responsibilities of first-line law enforcement supervisors. Supervisor’s responsibilities in relation to his/her agency’s objectives; interpreting agency’s organizational policies Supervisor’s role in relation to understanding human behavior and decision making Meets requirements established by Commission on Peace Officer Standards and Training. Lecture/Laboratory. Materials fee may be required for binder and students’ handout materials. Field trips may be required. Not offered every semester. (A-F Only)

LENF 335 – DRUG INFLUENCE ½ Unit
Prerequisite: Satisfactory completion of LENF 388 or equivalent.
Introduction to controlled substances and how they affect the human body both psychologically and physiologically. Course will enable students to recognize, photograph and document Health and Safety Code 11550 suspects and prepare the officer for court. Field trips may be required. Three maximum completions. Lecture/Laboratory. Materials fee required. Not offered every semester.

LENF 337 – BICYCLE PATROL ½ Unit
Prerequisite: Satisfactory completion of LENF 388 or equivalent.
Designed to provide the working peace officer with the skills necessary to be an effective bicycle patrol officer. Skills learned are: basic law enforcement bicycle patrol techniques, mounting and dismounting, riding in confined spaces, safety and understanding the mechanical operation of bicycles. Field trips may be required. Lecture/Laboratory. Not offered every semester.

LENF 340—FIELD TRAINING OFFICER ORIENTATION 2 Units
Prerequisite: Satisfactory completion of LENF 388
Discussion of the function of police field training officers. Methods of personnel evaluation and counseling. Dynamics of field training techniques and use of instructional methodology to facilitate learning. Field trips may be required. Lecture. Materials fee may be required. Not offered every semester. (A-F Only)

LENF 352—DEFENSIVE DRIVING AND EMERGENCY ½ Unit
VEHICLE DRIVING
Prerequisite: Satisfactory completion of LENF 388. Valid permit to operate a motor vehicle is required (the equivalent of a California Class “C” license or higher).
Safe and effective operation of vehicles under emergency conditions; principles and practices of defensive driving. Lecture/Laboratory. Fees required. Not offered every semester. (A-F Only)

LENF 360—OFFICER SAFETY/FIELD TACTICS 1 Unit
Prerequisite: Satisfactory completion of LENF 388
Information and experience necessary for the development of self-confidence and skill to enhance chances of survival in any law enforcement situation. Weapons, self-defense and Baton techniques, crowd control, personal confrontations, car stops and road blocks. Lecture/Laboratory. Not offered every semester. (A-F Only)

LENF 367—BASIC S.W.A.T. TRAINING 1½ Units
Prerequisite: Satisfactory completion of LENF 388
Introduction to S.W.A.T. special units including team composition, order of movement, operations orders, scouting reports, team movement, searches, and unusual incident management. Laboratory. Field trips may be required. Not offered every semester. (A-F Only)

LENF 368—ADVANCED S.W.A.T. TRAINING 1 Unit
Prerequisite: Satisfactory completion of LENF 370
Evolving technology and procedural problems as they arise in the field. Emphasis on training whole S.W.A.T. teams in new approaches. Four maximum completions. Field trips may be required. Lecture/Laboratory. Materials fee required. Not offered every semester. (A-F Only)

LENF 370—HIGH RISK WARRANT SERVICE ½ Unit
Prerequisite: Satisfactory completion of LENF 388
Designed to teach the skills and tactics necessary for serving high risk arrest and search warrants. Lecture/Laboratory. Field trips may be required. Not offered every semester. (A-F Only)

LENF 374 – TACTICAL RIFLE INSTRUCTOR 1 Unit
Prerequisite: Satisfactory completion of LENF 388 or equivalent.
A basic course for officers assigned to carry rifles in the patrol function and/or those assigned to train riflemen. Includes liability issues, mechanical function of typical patrol rifles (AR-15, M-16, Mini-14) and qualification standards. Emphasis is on rifle deployment and use in the patrol function; manipulation, malfunctions, close quarters shooting and range considerations. Also covered will be long distance marksmanship, considerations of optics, support equipment and role of the rifle in law enforcement. Field trips may be required. Lecture/Laboratory. Materials fee required. (CR/NR Only)

LENF 376—BASIC PUBLIC SAFETY DISPATCHER COURSE 2½ Units
Designed for training emergency dispatch personnel employed by public safety agencies or by those desiring a career in emergency dispatch services. Field trips may be required. Lecture/Laboratory. Not offered every semester. (A-F Only)

LENF 379 – FIREARMS INSTRUCTOR ½ Unit
Prerequisite: Satisfactory completion of LENF 388 or equivalent
Designed to teach the different elements of firearms instruction, i.e., firearms and the use of force guidelines; applicable case law review; types of ranges; firearms instructional methods; lesson plan development; shoot/Don’t shoot scenarios; operation techniques for reduce/ambient light; shotgun and rifle training. Field trips may be required. Lecture/Laboratory. Not offered every semester.

LENF 380—SURVIVAL SHOOTING (INSTRUCTOR) 1 Unit
Prerequisite: Satisfactory completion of LENF 388
Advanced firearms training for basic firearms instructor. Field trips may be required. Lecture/Laboratory. Not offered every semester. (A-F Only)

LENF 381—DEFENSIVE TACTICS (POLICE INSTRUCTOR) 2 Units
Prerequisite: Satisfactory completion of LENF 388
A comprehensive course designed to train prospective defensive tactics to instructors in current techniques. Includes principles of weaponsless defense, defensive tactics techniques, compliance, restraint, escort holds, weapons retention, weapon take away, active counter measures, edged weapon defense, instructor development techniques (how to teach and conduct a class), case law use of force, liability case law and safety guidelines. Lecture/Laboratory. (A-F Only)

LENF 388—BASIC POLICE ORIENTATION 15 Units
Prerequisites: Satisfactory completion of P.O.S.T. English skills test and physical agility test. Fingerprint clearance required by P. C. 13511.5. No felony convictions. No fire arm restrictions. A valid permit to operate a motor vehicle is required (the equivalent of a State of California class “C” license or higher).
Field techniques, reports, and filing procedures, community problems in crime control, interrelationships of law enforcement agencies, juvenile procedures, physical training and criminal procedures. Field trips are required. Lecture/Laboratory. (A-F Only)

LENF 398,A,B,C—LAW ENFORCEMENT SPECIAL TOPICS ½–3 Units
Prerequisite: Satisfactory completion of LENF 388
Series of short courses on specific criminal justice agency training needs. Emphasis is on updating recently available skills, information or technology that has a direct impact on specific agency or crime problems. Course content varies with the agency training needs studied. Field trips may be required. Unlimited repeats. Length of course varies. Lecture. (A-F Only)

Continued
NON-CREDIT COURSES

LENF 398 U,V — LAW ENFORCEMENT SPECIAL TOPICS ½, 1 Unit
(LAB ONLY)
Prerequisite: LENF 388
Series of short courses on specific criminal justice agency training needs. Emphasis is on updating recently available skills, information or technology that has a direct impact on specific agencies or crime problems. Course content varies with the agency training needs studied. Field trips may be required. Unlimited repeats. Length of course varies. Lab. (A-F Only)

LENF 850A, B, C, D, E — NEW PRACTICES/CONCEPTS IN LAW ENFORCEMENT
Prerequisite: Satisfactory completion of LENF 388
Update of new court decisions and statutory law and their implications to law enforcement practices and procedures. New technology and procedures for patrol and investigation officers. Legal and technical developments in allied Criminal Justice components. Unlimited repeats. Lecture/Laboratory.

LENF 851 — EXPANDABLE BATON TRAINING
Prerequisite: Satisfactory completion of LENF 307 or 388. Student must be capable of strenuous physical activities including sufficient strength, endurance, and body flexibility to accomplish class content requirements. No felony convictions or weapon restrictions.
Basic skills and principles of the legal and tactical use of the expandable baton in self-defense situations. Unlimited repeats. Lecture/Laboratory.

LENF 853 - RANGE MASTER CERTIFICATION TRAINING
Prerequisite: Satisfactory completion of LENF 388 or correctional equivalent. Recommended for Success: Satisfactory completion of firearm proficiency exercise. Qualifies officer/agent to be a departmental range master. Trains students in methods of firearms instruction. Field trips may be required. Unlimited repeats. Lecture/Laboratory.

LENF 854 — EXPANDABLE BATON INSTRUCTORS COURSE
Prerequisites: Satisfactory completion of LENF 388 and 851. No felony convictions or weapon restrictions. Students must be capable of strenuous physical activity including sufficient strength, endurance and body flexibility to accomplish class requirements. (Medical waiver required).
Advanced level of skills in the principles of legal and tactical use of the expandable baton in self-defense situations. Develop the ability to instruct basic level skills and concepts. Field trips may be required. Unlimited repeats. Lecture/Laboratory.

LENF 855 — CHEMICAL AGENTS UPDATE
Prerequisite: No felony convictions or weapon restrictions.
Meets Commission on Peace Officer Standards and Training mandates for possession and use of chemical agents. Course includes: legal aspects, civil liability, types and use of chemical agents, factors affecting the use and the ethical and procedural consideration. Participation in exposure to chemical agents—medical waiver required. This course is certified by P.O.S.T. (California Peace Officer Standards and Training). Field trips may be required. Four maximum completions. Lecture/Laboratory.

Learning Resources (LR)

Learning Resources offers a variety of courses that support the information competencies applicable to college-level research and lifelong learning. These courses are designed to benefit transfer students who want to develop research skills using the information resources and services found in college libraries, as well as lifelong learners seeking to acquire skills necessary to thrive in an information society. Learning Resources courses are transferrable to four-year colleges and universities.

LR 100 — RESEARCH METHODOLOGY 2 Units
Effective use of libraries and information sources, including development of research strategies, and the retrieval, evaluation, and use of information. Access a variety of print and electronic resources including online library catalogs, reference sources, online periodical and research databases, and the World Wide Web. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU

LR 120 — LIBRARY RESEARCH ON THE WORLD WIDE WEB 1 Unit
Introduction to the World Wide Web, with an emphasis on the concepts and skills necessary for academic research. Analysis of advantages and limitations of web-based information; extensive practice on a variety of standard search tools, including subject directories, search engines, and information portals; exploring the “invisible web”; use of email and bookmarks to organize online information; evaluating web-based information; and documentation of online information in APA and MLA formats. Lecture. Transfer: CSU

LR 140 — INTRODUCTION TO ONLINE LEARNING 1 Unit
Practical and theoretical introduction to online courses, with special emphasis on online courses at Modesto Junior College. Students will discuss the rationale for web-based courses, as well as some of the difficulties inherent to the online medium. Students will also gain hands-on experience using WebCT, the course management program used for MJC’s online and hybrid classes. Lecture. Transfer: CSU

LR 150 — INTRODUCTION TO INFORMATION AND RESEARCH 3 Units
An overview of how information is organized, accessed, evaluated, and used. Students will learn how to locate and use information available in libraries, through online databases, on the World Wide Web, and through other community resources such as archives and museums; students will learn effective research strategies, how to evaluate information, and how to cite different formats and create an in-depth bibliography. Field trips may be required. Lecture/Laboratory. Transfer: CSU

MACH (Machine Tool Technology)

The Machine Tool Technology program provides training toward the acquisition of proficiency in the use of metal removal and metal forming machine tools. Training in calculations of cutting speeds and feeds, use of measuring tools, study of elementary metallurgy, and making adjustments are also emphasized. Special focus is given to care of equipment, orderliness, accuracy, speed, judgment, confidence and safe working habits.

MACH 211D,E — MACHINE TOOL TECHNOLOGY 1 4, 5, 6 Units
Prerequisite: Satisfactory completion of MATH 20 & ESL 45
Study and application of basic measuring tools, (steel rules, vernier calipers and micrometers), layout tools and hand tools. Emphasis in the theory and practice in the use of drilling machines, bandsaws and lathes. This course meets California apprenticeship standards. Intended for students with little or no experience in the manufacturing industry. Field trips may be required. Two maximum completions. Materials fee required. Lecture/Laboratory. Transfer: CSU
MACH 212D,E — MACHINE TOOL TECHNOLOGY 2  4,5,6 Units  
Prerequisite: Satisfactory completion of (MACH 211D, or E) and MACH 301. 
Principles and fundamental use of precision grinders and advanced applications of the 
manual engine lathe and milling. Advanced levels of measuring systems, study of basic 
metallurgy, and techniques of heat treating to enhance the properties of metallic parts. 
Meets California apprenticeship standards. Field trips may be required. Two maximum 
completions. Materials fee required. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU

MACH 213C,D—MACHINE TOOL TECHNOLOGY 3  3,4 Units  
Prerequisite: Satisfactory completion of (MACH 212D, or E) and MACH 302. 
Theory and practice in the use of the dividing head, metric system, classes of fit, tool 
and cutter grinding, gear cutting, and dovetails. Carbide tools emphasized. Exploration 
and study of manufacturing processes found in use in local industries. Meets California 
apprenticeship standards. Field trips may be required. Two maximum completions. 
Materials fee required. Lecture/Laboratory. (A-F or CR/NC) (Fall) Transfer: CSU

MACH 219—INTRODUCTION TO CNC MACHINE TOOL PROGRAMMING  2 Units  
Recommended for Success: Previous experience in the use of manual or CNC 
lathes and milling machines.
The use of manual programming techniques to develop tool path codes required to produce 
products using CNC milling and turning equipment. Effective cutting speeds, feeds, and 
depth of cut for various machining operations using “canned cycles” and word address 
programming format will be addressed. Lecture/Laboratory Transfer: CSU

MACH 220—CNC MACHINE TOOL PROGRAMMING  2 Units  
The use of manual and CAM (computer-aided manufacturing) programming techniques 
to develop tool path codes required to machine products using CNC milling and turning 
equipment. Four maximum completions. (CR/NC Only) Transfer: CSU

MACH 221—CNC PROGRAMMING TECHNIQUES  4 Units  
Recommended for Success: Concurrent enrollment in MACH 222 and previous 
machining experience. 
The use of CAM (Computer Aided Manufacturing) programming techniques to develop 
the tool path codes needed to machine complex work pieces will be emphasized. DNC 
(Direct Numeric Control) techniques will be addressed. Field trips may be required. Three 
maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

MACH 222—CNC MACHINE OPERATIONS  2 Units  
Recommended for Success: Concurrent enrollment in MACH 219, 220, or 221 and 
previous machining experience. 
The setup and operation of computer-controlled machine tools with emphasis on vertical 
machining centers and two axis turning centers. Primary controller operation, machine 
setup, tooling application, installation and adjustment and basic codes needed for editing 
will be addressed. Field trips may be required. Two maximum completions. Lecture/ 
Laboratory/Other. Materials fee required. Transfer: CSU

MACH 301—MACHINE SHOP 1  3 Units  
Study and application of basic measuring tools. (steel rules, vernier calipers and 
micrometers), layout tools and hand tools. Theory and practice in the use of drilling 
machines, bandsaws, lathes and vertical milling machines. Meets California apprenticeship 
standards. Two maximum completions. Field trips may be required. Lecture/Laboratory. 
(A-F or CR/NC) Materials fee required.

MACH 302—MACHINE SHOP 2  3 Units  
Prerequisites: Satisfactory completion of MACH 211D, or E or MACH 301. 
Principles and fundamentals in the use of the milling machine, band saw and surface 
grinder with emphasis on milling operations. Principles of metallurgy, heat treating, and 
the application of more advanced measuring techniques will be explored. Field trips 
may be required. Lecture/Laboratory. (A-F or CR/NC) Three maximum completions. 
Materials fee required.

MACH 303—MACHINE SHOP 3  3 Units  
Prerequisites: Satisfactory completion of MACH 212D, or E or MACH 302. 
Theory and practice in the use of the dividing head, gearing systems, carbide tooling, 
and non-traditional machining systems. Field trips may be required. Lecture/Laboratory. 
Three maximum completions. (A-F or CR/NC) Materials fee required.

MACH 310 — ADVANCED TOPICS IN MACHINING  1 Unit  
Prerequisite: Previous machining experience or Satisfactory completion of MACH 
211E OR MACH 301 OR MACH 221 OR MACH 222. 
Overview of advanced tooling and machining practices. Topics may include electrical 
discharge machining, rapid prototyping, fixturing, cutting tool materials and geometry, 
die casting and plastic injection molding. Field trips may be required. Three maximum 
completions. Lecture/Laboratory. Materials fee required. (Summer) (CR/NC Only)

MACH 313—MANUFACTURING PROCESSES  2 Units  
The exploration and study of manufacturing techniques and common industrial processes 
found in local industries. Field trips may be required. Two maximum completions. Lecture.
MATH

Mathematics Course Sequence and Options

Non-Transferable Course

Transferable Course

Prerequisite Course Sequence

Recommended for Success Sequence

MATH 10—INTRODUCTION TO MATHEMATICS

Recommended for success: Qualification by MJC assessment process.
Non-degree course.
Module 1: A review of the four arithmetic operations as they apply to whole numbers, common fractions, and decimal fractions. Module 2: A variety of selected applications from arithmetic, pre-algebra, and geometry. Lecture. One completion allowed. (A-F or CR/NC)

MATH 20—PRE-ALGEBRA

Prerequisite: Qualification by MJC math assessment process or satisfactory completion of MATH 10.
Recommended for success: Eligibility for READ 82 or higher.
Non-degree course.
Designed to help students prepare for algebra and applied math courses by reviewing fundamental operations of arithmetic and common geometric formulas, and introducing the algebraic concepts of simplifying expressions, polynomial arithmetic, and solving and graphing linear equations. Arithmetic reviewed includes integers, decimals, ratios, and percents. Lecture. (A-F or CR/NC) One completion allowed.

MATH 37—MATH STUDY LAB

Co-requisite: Concurrent enrollment in a specified section of MATH 70.
Designed to provide academic skills for success in mathematics courses, including time management, class preparation, test preparation, and problem solving. Lecture.

MATH 47 — SKILLS FOR SUCCESS IN ELEMENTARY ALGEBRA

Prerequisite: Satisfactory completion of MATH 20 or placement for MATH 70 by the MJC assessment process.
Non-degree course.
Designed to provide further practice on basic skills needed for success in elementary algebra, in particular, for students who are weak in prerequisite skills and/or who have failed MATH 70. Lecture. Note: MATH 47 DOES NOT serve as a prerequisite to MATH 90. (CR/NC Only)

MATH 49 — SKILLS FOR SUCCESS IN INTERMEDIATE ALGEBRA

Prerequisite: Satisfactory completion of MATH 70 or MATH 71 and MATH 72 or placement for MATH 90 by the MJC assessment process.
Non-degree course.
Designed to provide further practice on basic skills needed for success in intermediate algebra, in particular, for students who are weak in prerequisite skills and/or who have failed MATH 90. Lecture. Note: MATH 49 DOES NOT serve as a prerequisite to transferable mathematics courses. (CR/NC Only)

MATH 50—BUSINESS MATHEMATICS

Prerequisite: Satisfactory completion of MATH 20 or qualification by MJC assessment process.
Mathematical background for business students. Problems of buying and selling, simple and compound interest, bank discounts, trade and cash discounts, installment payments, inventory markups, annuities, present value, commissions, taxes, payrolls, depreciation, and financial statements. Lecture.

MATH 62 — MATHEMATICAL SKILLS FOR THE SCIENCES

Prerequisite: Eligibility for MATH 90.
Also offered as PHSCI 62.
An overview of the essential mathematical skills for success in the sciences. Topics include units conversion, percentages, scientific notation, graphing data, and an introduction to the use of logarithms. Lecture.

MATH 70—ELEMENTARY ALGEBRA

Prerequisite: Satisfactory completion of MATH 20 or qualification by MJC math assessment process.
Recommended for Success: Eligibility for READ 82 or higher.
Equivalent to a first-year high school algebra course. Topics include: simplifying algebraic expressions, solving linear and quadratic equations, factoring, graphing lines and parabolas, solving systems of equations, rational expressions, and radicals, with application problems incorporated into each topic. Lecture.

MATH 71—ELEMENTARY ALGEBRA

Prerequisite: Satisfactory completion of MATH 20 or qualification by MJC math assessment process.
Recommended for Success: Eligibility for READ 82 or higher.
First half of MATH 70 - Elementary Algebra. Topics include: simplifying algebraic expressions, solving linear equations, graphing lines, and solving systems of linear equations and inequalities, with application problems incorporated into each topic. Lecture. (CC MATH 100A)

Non-Transferable Math Courses (to CSU or UC)

MATH 10—INTRODUCTION TO MATHEMATICS 4 Units

Recommended for success: Qualification by MJC assessment process.
Non-degree course.
Module 1: A review of the four arithmetic operations as they apply to whole numbers, common fractions, and decimal fractions. Module 2: A variety of selected applications from arithmetic, pre-algebra, and geometry. Lecture. One completion allowed. (A-F or CR/NC)
MATH 72—ELEMENTARY ALGEBRA 2  3 Units
Prerequisite: Satisfactory completion of MATH 71.
Recommended for Success: Eligibility for READ 82 or higher.
Second half of MATH 70 - Elementary Algebra. Topics include: simplifying algebraic
expressions, factoring, solving quadratic equations, graphing parabolas, rational
expressions, and radicals, with application problems incorporated into each topic.
Lecture. (CC MATH 100B)

MATH 80—PLANE GEOMETRY  3 Units
Prerequisite: Satisfactory completion of MATH 70 or equivalent or qualification by
MJC assessment process.
Theorems of plane geometry, proofs and the nature of a mathematical proof, numerical
solution of geometric problems, and constructions using compass and straightedge.
Lecture.

MATH 90—INTERMEDIATE ALGEBRA  5 Units
Prerequisite: Satisfactory completion of MATH 70 or qualification by MJC math
assessment process.
Recommended for Success: Eligibility for READ 184.
Equivalent to a second-year high school algebra course. Topics include: linear, quadratic,
exponential, and logarithmic functions and equations; complex numbers; solving
systems of linear equations in two and three variables using substitution, matrices, and
determinants; conic sections; sequences, series, combinatorics, and probability. Lecture. (CC MATH104) General Education: (MJC-GE: D2)

General Education/Transfer & Liberal Studies

MATH 101—MATHEMATICAL IDEAS AND APPLICATIONS  3 Units
Prerequisite: Satisfactory completion of MATH 90 or equivalent or qualification by
MJC assessment process.
A general education course emphasizing the role of mathematics in civilization, the
nature of mathematical thought, and applications of mathematics. Lecture. Transfer:
CSU, UC, CAN MATH 2) (CC MATH 6) General Education: (MJC-GE: D2) (CSU-GE:
B4) (IGETC:2)

MATH 105—STRUCTURE OF MATHEMATICS 1  3 Units
Prerequisite: Satisfactory completion of MATH 90 or equivalent or qualification by MJC
assessment process.
Structure of arithmetic for prospective elementary school teachers. The definitions,
operations, and properties of sets, counting numbers, integers, rational and irrational
numbers; numeration systems; number theory, logic, Field trips may be required. Lecture.
Transfer: CSU, UC (CAN MATH 4) (CC MATH 4A) General Education: (MJC-GE: D2)
(CSU-GE: B4)

MATH 106—STRUCTURE OF MATHEMATICS 2  3 Units
Prerequisite: Satisfactory completion of MATH 105.
Recommended for Success: High school geometry or MATH 80.
Elementary probability, statistics and geometry for prospective elementary school teachers.
Includes Euclidean geometry, measurement, and analytic geometry. Field trips may be
required. Lecture/Laboratory. Transfer: CSU, UC (CC MATH 4B) General Education:
(MJC-GE: D2) (CSU-GE: B4)

MATH 111—APPLIED COLLEGE ALGEBRA  3 Units
Prerequisite: Satisfactory completion of MATH 90 or qualification by the MJC
assessment process.
A College Algebra course that presents each topic to answer the question, “What is this
used for?” Instruction begins with a real-world problem and develops the mathematical
models and methods to solve it. Topics include: polynomial, rational, exponential, and
logarithmic functions; theory of equations; systems of equations; matrix algebra; analytic
geometry; and mathematical induction. Designed specifically for students needing only
one-semester, non-precalculus College Algebra course for transfer to a university. Not
open to students who have received credit in MATH 121. Will not serve as a prerequisite
to MATH 122 or MATH 171. Students preparing to take calculus must take MATH 121 and MATH 122. Lecture. Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-
GE: B4) (IGETC: 2)

Pre-Calculus

MATH 121—PRE-CALCULUS I  4 Units
Formerly listed as: MATH 121-College Algebra
Prerequisites: Satisfactory completion of MATH 90 or qualification by MJC
assessment process.
A one-semester College Algebra course or, together with Math 122, a two-semester
Precalculus course sequence. Emphasis on algebra skills essential for success in
calculus. Topics include: review of linear, quadratic, rational, radical, exponential and
logarithmic functions; functions and graphs; synthetic division; complex roots of
polynomials; the Fundamental Theorem of Algebra; applications of exponential and
logarithmic equations; sequences and series; mathematical induction; combinatorics and
probability. Lecture. Transfer: CSU, UC (CAN MATH 10) General Education: (MJC-GE:
D2) (CSU-GE: B4) (IGETC: 2)

MATH 122—PRE-CALCULUS 2  4 Units
Formerly listed as MATH 122 Functions and Analytic Geometry
Prerequisites: Satisfactory completion of MATH 121.
Recommended for Success: Satisfactory completion of MATH 80
Together with Math 121, a two-semester Precalculus course sequence. A comprehensive
course in analytic geometry and trigonometry. Topics include: vectors, rotation of
axes, conic sections, polar and parametric functions, trigonometric functions, analytic
trigonometry, linear and nonlinear systems, and matrix algebra. Lecture. Transfer: CSU,
UC (CAN MATH 16) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2)

Statistics, Computers, and Applications

MATH 130—FINITE MATHEMATICS  3 Units
Prerequisite: Satisfactory completion of MATH 90 or equivalent or qualification by
MJC assessment process.
Set theory, probability and counting techniques. Markov chains, matrices and linear
systems, linear programming, applications to business and behavioral and social sciences.
Lecture. Transfer: CSU, UC (CAN MATH 12) (CC MATH 12) General Education: (MJC-
GE: D2) (CSU-GE: B4) (IGETC: 2)

MATH 134—ELEMENTARY STATISTICS  4 Units
Prerequisite: Satisfactory completion of MATH 90 or equivalent or qualification by
MJC assessment process.
Elements of descriptive and inferential statistics, including probability, discrete and
continuous probability distributions, hypothesis testing, and regression analysis. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC (CAN STAT 2) (CC MATH
2) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2)

MATH 138—CALCULUS FOR BUSINESS AND SOCIAL SCIENCES  3 Units
Prerequisite: Satisfactory completion of MATH 90 or equivalent or qualification by
MJC assessment process.
Concepts of function and limit; applied calculus emphasizing techniques of differentiation
and integration for business economics applications; partial derivatives. Lecture. Transfer:
CSU, UC (CAN MATH 34) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC:
2)

Calculus

MATH 171—CALCULUS: FIRST COURSE  4 Units
Prerequisite: Satisfactory completion of MATH 121 and MATH 122 or qualification by
MJC assessment process.
Fundamental foundations of differential and integral calculus. Topics include: limits,
continuity, differentiation, curve sketching, applications of differentiation, integration, the
Fundamental Theorem of Calculus, and applications of integration. Lecture. Transfer:
CSU, UC (CAN MATH 18, CAN MATH SEQ B, CAN MATH SEQ C) (CC MATH 18A)
General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2)

Continued...
MATH 172—CALCULUS: SECOND COURSE 4 Units
Prerequisite: Satisfactory completion of MATH 171.
A continuation of MATH 171. Topics include: techniques of integration, applications of integration, introductory differential equations, differentiation and integration of parametric and polar equations, and infinite sequences and series. Lecture. Transfer: CSU, UC (CAN MATH 20, CAN MATH SEQ B, CAN MATH SEQ C) (CC MATH 18B) General Education: (CSU-GE: B4) (IGETC: 2)

MATH 173—CALCULUS: THIRD COURSE 4 Units
Prerequisite: Satisfactory completion of MATH 172 or equivalent.
Vectors and solid analytic geometry, partial differentiation, multiple integration and applications of integration, line and surface integrals. Lecture. Transfer: CSU, UC (CAN MATH 22, CAN MATH SEQ C) (CC MATH 18C)

MATH 174—INTRODUCTION TO LINEAR ALGEBRA AND ORDINARY DIFFERENTIAL EQUATIONS 4 Units
Prerequisite: Satisfactory completion of MATH 173 or equivalent.
Linear algebra topics including linear equations, vector spaces, scalar products, linear transformations, determinants and eigenvalues. Differential equations topics including solutions to first order equations, higher order linear equations, series solutions, systems of equations, and Laplace transforms. Lecture. (Spring) Transfer: CSU, UC (CAN MATH 24)

MDAST (Medical Assisting)

MDAST 320—INTRODUCTION TO MEDICAL ASSISTING 3 Units
Concurrent Enrollment: MDAST 321, 322, 323.
Orientation to the medical office and the role of the medical assistant. Professional relations and communications, ethics, and legal responsibilities; history of medicine, and community health facilities. Field trips may be required. Lecture. (A-F Only) (Fall)

MDAST 321—MEDICAL TERMINOLOGY 3 Units
Emphasizing logical and rational understanding of word parts. Covers medical terms organized according to body systems, including fundamental understanding of the basic anatomy, function, diseases and surgeries of each body system. Lecture. (A-F Only) Transfer: (CC OGETC 50)

MDAST 322—MEDICAL ASSISTING ADMINISTRATIVE PROCEDURES 3½ Units
Concurrent Enrollment: MDAST 320, 321, 323.
Medical assisting administrative procedures including financial record keeping, insurance claims, banking functions, payroll and medical records. Students receive training in completing the above procedures manually and by computer. Field trips may be required. Lecture/Laboratory. (A-F Only) (Fall)

MDAST 323—MEDICAL ASSISTING CLINICAL PROCEDURES 3 Units
Concurrent Enrollment: MDAST 320, 321, 322
Clinical medical assisting skills, which pertain to preparing the patient for examination and assisting patient and physician during patient examination and treatment. The assistant must anticipate the physician’s needs as to the type of examination, the specific equipment needed, and the extent of assistance required by the patient. This requires judgement based on a reasonable understanding of physical examination, the methods and equipment used, and the related role of the medical assistant. Lecture/Laboratory. Materials fee required (items for infection control/malpractice liability insurance). (A-F Only) (Fall)

MDAST 324—INTRODUCTION TO DISEASES AND PHARMACOLOGY 4 Units
Concurrent Enrollment: MDAST 325, 326
Medical terminology related to the human body in health and disease. Pathogenesis and discussion of representative diseases; signs and symptoms of many major diseases, and basic drugs used in treatment. Lecture. (A-F Only) (Spring)

MDAST 325—LABORATORY PROCEDURES 3 Units
Concurrent Enrollment: MDAST 324, 326
Introduction to laboratory procedures necessary to aid the physician. Includes patient preparation for diagnostic studies, purposes, techniques and recording of procedures commonly performed. Field trips may be required. Lecture/Laboratory. (A-F Only) (Spring)

MDAST 326—EXTERNSHIP 7 Units
Concurrent Enrollment: MDAST 324, 325
Externship portion of the program consists of two 8-week rotations in which students apply knowledge in performing administrative and clinical procedures. Students also receive training in medical office emergencies and seeking employment. Lecture/Laboratory. Materials fee required (items for infection control/malpractice liability insurance). (A-F Only) (Spring)

MDAST 350—MEDICAL TRANSCRIPTION 3 Units
Recommended for Success: Satisfactory completion of MDAST 321, OFADM 203 or equivalent, OFADM 311 or equivalent.
Entry-level course to prepare students to take the Medical Transcriptionist Certification Exam offered by the American Association for Medical Transcription (AAMT) to qualify as a Certified Medical Transcriptionist (CMT). Covers use of computers to transcribe physician dictation including progress notes, letters, consultations, procedures and radiology reports heard through the earphones of a transcribing machine. Two maximum completions. Lecture. Transcribing machine, earphones and supplies required.

MDAST 352—MEDICAL CODING/CPT 3 Units
Recommended for Success: Satisfactory completion of MDAST 321 or equivalent. Formerly listed as Medical Coding Specialist.
Enter-level course that covers the use of Current Procedural Terminology (CPT), a coding system developed by the American Medical Association (AMA) to convert widely accepted, uniform descriptions of medical, surgical, and diagnostic services rendered by health care providers into five-digit numeric codes. This course along with Medical Assisting 353 prepares students to take the Certified Coding Specialist Examination offered by the American Health Information Management Association (AHIMA). Two maximum completions. Lecture.

MDAST 353—MEDICAL CODING/ICD 3 Units
Recommended for Success: Satisfactory completion of MDAST 321 or equivalent. Formerly listed as MDAST 352: Medical Coding Specialist.
Enter-level course that covers the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) which is designed for the classification of patient morbidity (sickness) and mortality (death) information for statistical purposes and for the indexing of hospital records by disease and operation for data storage and retrieval. This course along with Medical Assisting 352 prepares students to take the Certified Coding Specialist Examination offered by the American Health Information Management Association (AHIMA). Two maximum completions. Lecture.

METEO (Meteorology)

METEO 151—INTRODUCTION TO METEOROLOGY 1 Unit
Laboratory
Prerequisite: Satisfactory completion of or concurrent enrollment in METEO 160.
Practical experience using meteorological charts and instruments, techniques in surface observations, weather map analysis and weather forecasting. Field trips required. Laboratory. Materials fee may be required. Transfer: CSU, UC General Education: (CSU-GE: B1) (IGETC: 5A)

METEO 160—INTRODUCTION TO WEATHER AND CLIMATE 3 Units
Introduction to weather and climate with emphasis on topics such as air pollution, clouds, precipitation, fog, storms, weather forecasting, the greenhouse effect, ozone depletion, and global warming. Field trips may be required. Lecture. Materials fee may be required. Transfer: CSU, UC General Education: (MUC-GE: A) (CSU-GE: B1) (IGETC: 5A)
METEO 171, A, B, C—METEOROLOGY FIELD STUDIES
Prerequisite: Satisfactory completion of or concurrent enrollment in METEO 160.
Field trips to areas of meteorological interest. Emphasis on the weather, climate, and meteorological significance of the regions visited. May be repeated to six maximum units. Lecture/Laboratory. Materials fee may be required. Transfer: CSU, UC (For UC only: must be taken for 3 units.)

MUSIC 100—MUSIC FUNDAMENTALS 1
3 Units
Recommended for Success: Satisfactory completion of MUSIC 120 and 170.
Structured to teach skills and understanding of music fundamentals. Designed to meet the needs of the non-music major, the music major preceding elementary harmony, and the prospective elementary school teacher. Lecture/Laboratory. Transfer: CSU, UC (CC MUSIC 1)

MUSIC 101—MUSIC FUNDAMENTALS 2
3 Units
Prerequisite: Satisfactory completion of MUSIC 100
Recommended for Success: Satisfactory completion of MUSIC 120 and 197.
A continuation of MUSIC 100. Further study of intervals, rhythm, chord construction with application to the keyboard, ear training, sight singing, and simple dictation. Lecture/Laboratory. Transfer: CSU, UC

MUSIC 102—MUSIC THEORY 1
3 Units
Prerequisite: Satisfactory completion of MUSIC 100 or satisfactory score on theory placement examination.
Concurrent Enrollment: MUSIC 104 and 197.
Principles of interval and tone relation, scales and modes; harmonic and melodic rhythm; root progression and voice leading; introduction to common harmonic practice through exercises in part writing and figured bass, simple original composition, and analysis. Lecture/Other. Not offered every semester. Transfer: CSU, UC, (CAN MUS 2, CAN MUS SEQ A) General Education: (IGETC: 3A)

MUSIC 103—MUSIC THEORY 2
3 Units
Prerequisites: Satisfactory completion of MUSIC 102
Concurrent Enrollment: MUSIC 105 and 197.
Continuing development of technique in common harmonic practice through analysis, part writing and figured bass; exercises and original composition. Introduction to modulation and secondary dominants; introduction to phrase and period structure, introduction to all seventh chord types. Lecture/Other. Transfer: CSU, UC (CAN MUS 4, CAN MUS SEQ A, CAN MUS SEQ B, CAN MUS 4, CAN MUS SEQ A, UC) General Education: (IGETC: 3A)

MUSIC 104—AURAL SKILLS 1
1 Unit
Concurrent Enrollment: Satisfactory completion of MUSIC 102
Supplements the study of music theory by practical application in performance; integration of fundamentals of pitch, rhythm, scale and mode through singing, rhythmic reading, analysis, and the dictation; computer assisted instruction. Lecture/Laboratory. (Fall) Transfer: CSU, UC, UC MUS 2, UC MUS SEQ A

MUSIC 105—AURAL SKILLS 2
1 Unit
Concurrent Enrollment: MUSIC 103
Continuation of MUSIC 104 further developing skills in sight-singing, melodic and rhythmic dictation, and in aural analysis of harmonic materials. Use of computer assisted instruction. Lecture/Laboratory. Transfer: CSU, UC, UC MUS 4, UC MUS SEQ A

MUSIC 106—MUSIC THEORY 3
3 Units
Prerequisites: Satisfactory completion of MUSIC 103
Concurrent Enrollment: MUSIC 197
Recommended for Success: Concurrent enrollment in MUSIC 108.
Continuation of the study of structural elements of music such as melody, rhythm, harmony and form with emphasis on the organization of these elements; study of harmonic analysis, expansion of harmonic resources through chromaticism; study of binary and sonata form. Lecture. Not offered every semester. Transfer: CSU, UC General Education: (CSU-GE: C1) (IGETC: 3A)

MUSIC 107—MUSIC THEORY 4
3 Units
Prerequisites: Satisfactory completion of MUSIC 106
Concurrent Enrollment: MUSIC 197
Recommended for Success: Concurrent enrollment in MUSIC 109.
Continued development of analytical techniques; study of fugue and basic tonal counterpoint; introduction to impressionism and to twentieth century structural techniques; study of ternary structures and rondo form. Lecture. Not offered every semester. Transfer: CSU, UC General Education: (IGETC: 3A)

MUSIC 108—AURAL SKILLS 3
1 Unit
Prerequisite: Satisfactory completion of MUSIC 105
Recommended for Success: Concurrent enrollment in MUSIC 106.
Continuation of materials presented in preceding applied music theory courses. Development of individual proficiency in sight-singing, dictation, aural, rhythmic and keyboard skills. Field trips may be required. Lecture/Laboratory. (Fall) Transfer: CSU, UC

MUSIC 109—AURAL SKILLS 4
1 Unit
Prerequisite: Satisfactory completion of MUSIC 108
Recommended for Success: Concurrent enrollment in MUSIC 107.
Continuation of materials presented in preceding applied music theory courses. Development of individual proficiency in sight-singing, dictation, aural, rhythmic and keyboard skills. Field trips may be required. Lecture/Laboratory. (Spring) Transfer: CSU, UC

MUSIC 110—MUSIC APPRECIATION
3 Units
Survey course emphasizing the development of the listener’s perception of the basic elements of music. Illustrations encompass various types of folk and traditional music, traditional classical music from a variety of historical periods, and musical material of a contemporary nature. Lecture. Field trips may be required. One completion allowed. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C1) (CSU-GE: C1) (IGETC: 3A)

MUSIC 112—HISTORY OF WESTERN MUSIC 1
3 Units
Survey of musical styles by master composers dating from the ancient period through the end of the baroque period (1750). Various historical periods, the stylistic practices in composition and performance, musical compositions of the most prominent composers from each historical period. Field trips may be required. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU, UC, UC MUS 10, UC MUS 10 General Education: (MJC-GE: C1) (CSU-GE: C1) (IGETC: 3A)

Continued...
MUSIC 113—HISTORY OF WESTERN MUSIC 2  
3 Units
A general survey of the musical styles by master composers dating from the classical period (1750) to the present. Emphasis will be placed on identifying the various historical periods, the stylistic practices in composition and performance, utilizing the musical compositions of the most prominent composers from each historical period. Field trips may be required. One completion allowed. Lecture/Laboratory; Transfer: CSU, UC. (CC MUSIC 11) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSIC 114—CONDUCTING I  
1 Unit
Prerequisites: Satisfactory completion of MUSIC 100, MUSIC 101 or eligibility for MUSIC 102 via Music placement test.
The study of style and technique of conducting. Emphasis on gestures and score analysis. Field trips may be required. Lecture. (Spring) Transfer: CSU, UC

MUSIC 115—CONDUCTING II  
1 Unit
Prerequisite: Satisfactory completion of MUSIC 114
Continuation of MUSIC 114 with special emphasis on applied aspects of conducting. Field trips may be required. Lecture. (Spring) Transfer: CSU, UC

MUSIC 118—INTRODUCTION TO AMERICAN POPULAR MUSIC  
3 Units
Survey course emphasizing the listeners perception and understanding of the elements of American Popular music. Illustrations will cover folk, jazz, musical theatre, and rock styles of popular art music. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

MUSIC 119—RHYTHMIC SKILLS  
1 Unit
Introduction to terminology and symbols used in the rhythmic notation of music, and to facilitate the development of the ability to read, write and accurately perform rhythmic figures with proper inflexion and artistic phrasing. Four maximum completions. Lecture/Laboratory. Not offered every semester. Transfer: CSU

MUSIC 169—INTRODUCTION TO WORLD MUSIC  
3 Units
Exploration of traditional/contemporary folk music of Africa, Asia, Latin America, Europe and the U.S. from the perspective of music as culture. Investigations of the impact/influence of migratory patterns, social-political processes, and how ethnicities are formed in relation to music. Field trips are required. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSIC 197—PRACTICA MUSICA  
1 Unit
Concurrent Enrollment: MUSIC 102, 103, 106 or 107.
Development of aural and rhythmic skills by means of computer assisted participation. Exposure to standard western art music repertoire by means of guided listening. Four maximum completions. Laboratory. Transfer: CSU

Applied Music

See "Repeat Limitations on Music Courses." Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

MUSIC 120—ELEMENTARY PIANO  
1 Unit
Essentials of music reading; fundamentals of rhythm, tone production and phrasing; introduction of scales and chords; methods of practice and memorization. Completion of Music 120 is recommended for all general elementary teaching candidates. Electronic piano lab and practice rooms available. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

MUSIC 121—PIANO ENRICHMENT  
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 120 or equivalent.
Designed for the continuation of development of coordination, understanding of rhythmic skills, technique and theory. Emphasis upon sight reading and ensemble playing. Electronic piano lab and practice rooms available. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

MUSIC 122—INTERMEDIATE PIANO  
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 121 or equivalent. Fundamental techniques of piano playing; review of scales and basic keyboard harmony; means of increasing skill in sight reading, musical interpretation of the score, memorization and playing by ear; introduction to repertoire from various stylistic periods; emphasis on the essentials of advanced piano study; analysis of the pianistic problems involved in selected repertoire from various stylistic periods; participation in student recitals. Four maximum completions. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC

MUSIC 123—ADVANCED PIANO  
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 122 or equivalent. Study of advanced techniques of piano playing; review of scales and arpeggios; study of repertoire from various stylistic periods. Emphasis on preparation of solo repertoire for recital performance. Four maximum completions. Lecture/Laboratory. Transfer: CSU, UC

MUSIC 124—ORGAN 1  
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 120 or equivalent. History construction and literature for the organ; use of foot pedals, coordination of hands and feet, and comparison of popular and classical styles; development of repertoire. Four maximum completions. Lecture/Laboratory. Not offered every semester. (MJC Activities) Transfer: CSU, UC

MUSIC 125—ORGAN 2  
1 Unit
Prerequisite: Satisfactory completion of MUSIC 124 or equivalent
Limitation on enrollment: Ability to coordinate keyboard manuals and pedals together using basic rhythms, melodic, and chordal structures. Development of skills introduced in MUSIC 124; analysis of practice methods to overcome technical problems. Discussion of service playing and music suitable for various forms of worship. Preparation for recitals. Four maximum completions. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU, UC

MUSIC 126—ORGAN 3  
1 Unit
Prerequisite: Satisfactory completion of MUSIC 125 or equivalent
Limitation on enrollment: Ability to coordinate keyboard manuals and pedals together using basic rhythms, melodic, and chordal structures. Study and analysis of organ literature from baroque, classical, romantic and contemporary periods; function of the organ in solo and accompanimental forms; opportunity for practical experience in both areas; emphasis on cumulative repertoire. Four maximum completions. Lecture/Laboratory. (A-F or CR/NC) Transfer: CSU, UC

MUSIC 127—ELEMENTARY STRINGS  
1 Unit
Introduction to the playing of orchestra stringed instruments (violin, viola, cello, bass). Designed for students with no previous instrumental music experience, students who wish to review fundamentals of instrumental music, and experienced instrumentalists who wish to learn a secondary instrument. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

MUSIC 128—APPLIED MUSIC (VIOLIN AND VIOLDA)  
1 Unit
Concurrent Enrollment: MUSIC 150
Study and performance of violin and viola solo literature. Recital and public performance participation required. Field trips may be required. Four maximum completions. Lecture/Laboratory. Transfer: CSU, UC

MUSIC 129—APPLIED MUSIC (CELLO AND BASS)  
1 Unit
Concurrent Enrollment: MUSIC 150 or 162.
Study and performance of cello and bass solo literature. Recital and public performance participation required. Field trips may be required. Four maximum completions. Lecture/Laboratory. Transfer: CSU, UC

MUSIC 131—ELEMENTARY VOICE I  
1 Unit
Formerly listed as: MUSIC 131 Elementary Voice
Development of the singing voice through consideration and application of the basic elements of tone production, i.e., breathing, resonance, diction, posture; principles applied through group and individual vocal exercises and singing. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

Continued on the next page...
MUSIC 132—ELEMENTARY VOICE II 1 Unit
Formerly listed as: MUSIC 132 Voice Enrichment
Further development of the singing voice through consideration and application of the basic elements of tone production, i.e., breathing, resonance, diction, posture; principles applied through group and individual vocal exercises and singing. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

MUSIC 133—APPLIED VOCAL REPertoire 1 1 Unit
Formerly listed as “MUSIC 133 - Intermediate Voice”
Concurrent enrollment in: MUSIC 139
Limitation on enrollment: Basic ability to sight read music and sing within the tonal center.
Study and performance of vocal solo literature with emphasis on building repertoire; development of style, and preparation for recitals. Recital and public performance participation required. Intended for voice majors. Four maximum completions. Lecture/Rehearsal. Transfer: CSU, UC (CC MUSIC 39)

MUSIC 134—APPLIED VOCAL REPertoire 2 1 Unit
Formerly listed as “MUSIC 134 - Advanced Voice”
Recommended for Success: Satisfactory completion of MUSIC 133
Concurrent enrollment in: MUSIC 139
Limitation on enrollment: Intermediate ability to sight read music and sing within the tonal center.
Continuation of MUSIC 133 with greater emphasis on building repertoire, development of style, and preparation for recitals. Recital and public performance participation required. Intended for voice majors. Four maximum completions. Lecture/Rehearsal. (A-F or CR/NC) Transfer: CSU, UC (CC MUSIC 56)

MUSIC 139—VOCAL MASTER CLASS 1 Unit
Concurrent enrollment: MUSIC 131, MUSIC 132, MUSIC 133, or MUSIC 134
Development of vocal performance through consideration and application of good vocal technique, performance practice, and dramatic character development; principles applied through solo, duet, or ensemble performances in class and public recitals. Lecture/Laboratory. Transfer: CSU

MUSIC 140—INTRODUCTION TO BRASS AND PERCUSSION 1 Unit
Techniques necessary for individual and group performance. Designed for students with no previous experience in instrumental music, students who wish to review fundamentals of instrumental music, and experienced instrumentalists who wish to learn a secondary instrument. Students must own or have access to appropriate instrument. Public performances may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

MUSIC 142—APPLIED MUSIC (Brass and Percussion) 1 Unit
Recommended for Success: Satisfactory completion of MUSIC 140 or equivalent.
Study and performance of brass and percussion solo literature. Recital and public performance participation required. Student must own or have appropriate access to an instrument appropriate for this course. Field trips may be required. Four maximum completions. (A-F or CR/NC) Lecture/Laboratory. Transfer: CSU, UC

MUSIC 144—APPLIED MUSIC (Woodwind) 1 Unit
Limitation on enrollment: Ability to read music and play a woodwind instrument at an intermediate level, which will be tested during the first week of class.
Study and performance of woodwind solo literature. Recital and public performance participation required. Field trips may be required. Four maximum completions. Lecture/Laboratory. Transfer: CSU, UC (CC MUSIC 52)

MUSIC 163—ELEMENTARY GUITAR 1 Unit
Recommended for Success: Satisfactory completion of MUSIC 100
Examination of the basic elements of classical guitar technique and repertoire. Technical works will emphasize posture, correct right- and left-hand technique, as well as treble clef note-reading in first position. The course will introduce sight-reading on easy melodies as well as chord charts. Chord coverage will include: closed finger chords, open finger chords, and bar chords. The student is responsible for providing a nylon-stringed guitar, a guitar tuner, and a foot stool. All students will perform in a semi-formal performance at the end of the semester. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC (CC MUSIC 49)

MUSIC 164—GUITAR ENRICHMENT 1 Unit
Prerequisite: Satisfactory completion of MUSIC 163
Improvement of guitarists accompaniment technique, analytical skills, and performance competence. Music education majors are strongly encouraged to enroll. Special attention will be given to chord chart sight reading, contrapuntal reading, and principles of bass clef reading (continuo). Technical work will include all the major and minor diatonic scales, selected etudes emphasizing position shifts, arpeggiation and solo passage works. Students will be required to participate in a formal recital at the end of the term. Lecture/Laboratory. Field trips required. Four maximum completions. Transfer: CSU, UC

MUSIC 165—INTERMEDIATE GUITAR 1 Unit
Prerequisite: Satisfactory completion of MUSIC 164
Continuation of MUSIC 164. Expanding on topics already covered. Emphasis given to sight-reading both on treble and bass clefs. Students are required to play all diatonic major and minor scales, as well as selected Sor Etudes. At the end of the term, students will perform a solo jury, which will consist of a technical work and contrasting works from the Renaissance, Baroque, Classical and Contemporary eras. Interdisciplinary ensemble performance is desired for this class. Students will be required to participate in a formal recital at the end of the term. Field trips required. Lecture/Laboratory. Four maximum completions. Transfer: CSU, UC

MUSIC 166—APPLIED CLASSICAL GUITAR 1 Unit
Prerequisite: Satisfactory completion of MUSIC 165
Designed for performance majors intending to transfer to four-year institutions. The curricula will cover materials necessary to provide the appropriate skill level for upper division coursework at most universities. Students must perform a thirty-minute recital as a completion requirement for the course. A fifteen-minute jury may substitute for the recital requirement. Field trips required. Lecture/Laboratory. Four maximum completions. (MJC Activities) Transfer: CSU, UC (CC MUSIC 50)

MUSIC 179—JAZZ SOLO VOICE 1 Unit
Recommended for Success: Satisfactory completion of MUSIC 121, 131 or equivalent private vocal instruction or experience. Students should have solo experience.
Study and performance of songs in the jazz idiom. Areas covered will include musicianship, ear training, music phasing, emotional expression, typical vocal techniques, stage presence, use of microphones and introduction to vocal jazz improvisation. Four maximum completions. Lecture/Laboratory. Transfer: CSU

MUSIC 180—INTRODUCTION TO WOODWINDS 1 Unit
Techniques necessary for individual and group performance. Designed for students with no previous experience in instrumental music, students who wish to review fundamentals of instrumental music, and experienced instrumentalists who wish to learn a secondary instrument. Students must own or have access to an appropriate instrument. Four maximum completions. Not offered every semester. Lecture/Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU, UC

MUSIC 181—ELEMENTARY HARPSICHORD 1 Unit
Recommended for Success: Satisfactory completion of MUSIC 120
Introduction to the basic skills of harpsichord performance. Literature from the Renaissance, Baroque and Early Classical periods. Performance techniques will include figured bass, vocal and instrumental accompanying. Field trips may be required. Four maximum completions. Lab/studio activity/individualized instruction. (Fall) (MJC Activities) Transfer: CSU

Performance Ensembles
See “Repeat Limitations on Music Courses.” Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

Continued...
MUSIC 145—CHAMBER ENSEMBLES  
(} Band Instruments)  
1 Unit  
Concurrent Enrollment: MUSIC 146 or 161.  
Rehearsal and performance of chamber ensemble literature. Ensembles may be made up of varying numbers of woodwind, brass, and percussion instruments. Recital and public participation required. Student must own or have access to an appropriate instrument. Field trips may be required. Four maximum completions. Rehearsal. (A-F or CR/NC)  
Transfer: CSU, UC

MUSIC 146—SYMPHONIC BAND  
2 Units  
Rehearsal and performance of original wind literature and transcriptions for band. Field trips may be required. Student must own or have access to an appropriate instrument. Four maximum completions. Lecture/Laboratory. (A-F or CR/NC)  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 147—EVENING JAZZ BAND  
1 Unit  
Limitation on Enrollment: Student must have previous experience playing jazz ensemble music. Study and performance of jazz literature in both traditional and contemporary styles. Field trips may be required. Four maximum completions. Rehearsal. (A-F or CR/NC)  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 148—PEP BAND  
1 Unit  
Preparation of music for sports events, rallies and other student body activities. Participation in concerts, rallies, and football games required; sectional rehearsals and additional rehearsal time required if needed. Field trips required. Four maximum completions. Lecture/Other. Not offered every semester.  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 149—JAZZ BAND  
2 Units  
Prerequisite: Previous experience in instrumental music and/or jazz ensembles.  
Concurrent Enrollment: MUSIC 141  
Study and performance of jazz literature in both traditional and contemporary styles. Field trips may be required. Four maximum completions.  
(MJC Activities)  
Transfer: CSU, UC (CC MUSIC 72)

MUSIC 150—STRING ORCHESTRA  
2 Units  
Formerly listed as “Orchestra.”  
Limitation on enrollment: Ability to sight read music and adjust intonation on a bowed string instrument.  
Recommended for success: MUSIC 128 or 129  
Rehearsal and public performance of orchestral music for strings (from all eras and a variety of cultures). Focus on developing bowing and left hand technique. Four maximum completions up to 8 units. Field trips may be required. (A-F or CR/NC)  
(MJC Activities)  
Transfer: CSU

MUSIC 151—CHAMBER MUSIC ENSEMBLES (STRINGS)  
1 Unit  
Recommended for Success: Concurrent Enrollment in MUSIC 150 or MUSIC 162  
Limitation on Enrollment: Previous experience in instrumental music. Rehearsal and performance of chamber ensemble literature. Ensemble may be made up of varying numbers of string instruments. Recital and public performance required. Field trips may be required. Four maximum completions. Rehearsal/Other.  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 152—CONCERT CHOIR  
1 Unit  
Limitation on enrollment: Ability to match pitch, sing melodies in tune, and sight read elementary-level passages will be evaluated in audition.  
A large choral ensemble for intermediate and advanced level singers. Public performances of multi-cultural programs from a variety of historical periods. Field trips required. Four maximum completions. Rehearsal/Other. (A-F or CR/NC)  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 153—CHAMBER CHOIR  
1 Unit  
Formerly listed as “MUSIC 153 - Singers.”  
Prerequisite: Satisfactory completion of audition.  
(MJC Activities)  
Transfer: CSU, UC (CC MUSIC 69)

MUSIC 154—MASTERWORKS CHORUS  
1 Unit  
Recommended for Success: Previous experience in a large choral ensemble.  
A large choral ensemble for intermediate and advanced level singers. Study and performance of either one large scale work or program of shorter works. Public performances required. Four maximum completions. Lecture/Other.  
(MJC Activities)  
Transfer: CSU, UC (CC MUSIC 66)

MUSIC 161—CONCERT BAND  
1 Unit  
Limitation on enrollment: Previous experience in instrumental music or Satisfactory completion of MUSIC 140 or 180. Rehearsal and performance of original wind literature and transcriptions for concert band. Student must own or have access to appropriate instrument. Field trips required. Four maximum completions. (A-F or CR/NC)  
Rehearsal/Laboratory.  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 162—COMMUNITY ORCHESTRA  
1 Unit  
Recommended for Success: Previous experience in instrumental music course or equivalent. Rehearsal and public performance of orchestral music from all eras and a variety of cultures. Rehearsal/Other. Field trips may be required. Four maximum completions.  
(MJC Activities)  
Transfer: CSU, UC

Enrichment Courses

See “Repeat Limitations on Music Courses.” Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

MUSIC 157—MUSICAL THEATRE WORKSHOP  
2 Units  
Recommended for Success: Previous vocal experience. Intended for those interested in singing and acting. Study and performance of musical theatre. Public performance is required. Four maximum completions. Field trips may be required. Lecture/Laboratory.  
(MJC Activities)  
Transfer: CSU, UC

MUSIC 158—ADVANCED MUSICAL THEATRE WORKSHOP  
2 Units  
Recommended for Success: Satisfactory completion of MUSIC 157 or equivalent. Intended for those interested in singing and acting. Study and performance of musical theatre. Public performance is required. Field trips may be required. Four maximum completions. Lecture/Laboratory.  
(MJC Activities)  
Transfer: CSU, UC

Continued Ô
MUSIC 170—INTRODUCTION TO THE SYNTHESIZER AND MIDI MUSIC STUDIO COMPOSITION
2 Units
Introduction to synthesizer and electronic keyboard sound design and operational procedures. MIDI (Musical Instrument Digital Interface) music studio techniques will be examined and utilized in an electronic music studio environment. Music acoustics, electronic music composition, synthesizer live performance, digital sampling, audio recording and music software programs will be explored. (A-F or CR/NC) Four completions allowed. (MJC Activities) Transfer: CSU

MUSIC 171—ELECTRONIC MUSIC 2
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 170 or previous synthesizer/tape recording and MIDI music studio experience.
Applied topics in electronic music composition, MIDI (Musical Instrument Digital Interface) music studio procedures, sampling, tape and digital recording. Performance in an electronic music concert is expected. Field trips may be required. Four maximum completions. Laboratory. (A-F or CR/NC) (MJC Activities) Transfer: CSU

MUSIC 172—RECORDING STUDIO TECHNIQUES
1 Unit
Recommended for Success: Satisfactory completion of MUSIC 170 and 171
Introduction to the basic aspects of the recording studio, the properties of sound, microphone placement, multi-track recording, mixing and mastering. Analog and digital recording will be examined. Field trips may be required. Four maximum completions. Lecture/Laboratory. Materials fee required. (A-F or CR/NC) (MJC Activities) Transfer: CSU

MUSIC 173—GUITAR ORCHESTRA
2 Units
Prerequisite: Satisfactory completion of MUSIC 163. Enrollment limited to those with some sight-reading ability.
Concurrent Enrollment: MUSIC 164
The Modesto Junior College Guitar Orchestra will focus on international classical and folkloric guitar ensemble repertoire. Students will be exposed to a large and multicultural repertoire for large guitar groups. This is a performance class, and students are required to perform in different venues representing the college’s guitar department. Two recitals will be required. Field trips required. Four maximum completions. Laboratory/Rehearsal. (MJC Activities) Transfer: CSU, UC

MUSIC 182—MUSIC THEORY FUNDAMENTALS AND BEYOND: FROM INTERVALS TO INVENTIONS
3 Units
A comprehensive course exploring the inner working of Western Art, Music, and composition. Topics include music notation, scales, intervals, key signatures, triads, and seventh chords; part-writing in four voices, figured bass realization, and basic composition. Musicanship topics are also included: sight singing and ear training with Solfege system using Movable do, and identification of diatonic intervals. A few 20th Century trends in pop music will be analyzed. (MJC Activities) Transfer: CSU, UC

MUSIC 185—CHORUS
1 Unit
A large choral ensemble for inexperienced or beginning level singers. Development of vocal technique, artistic interpretation and performance skills. Rehearsal and performance of choral music drawn from the world’s cultures. Public performances required. Field trips required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC (CC MUSIC 60)

MUSIC 190—THE MUSIC OF THE BEATLES
3 Units
A survey of the musical styles by the Beatles dating from 1958-1970. Emphasis will be placed on identifying the various musical periods, the stylistic practices in their compositions, their performances and interviews. Lecture. (A-F Only) Transfer: CSU, UC

MUSIC 349A—WORK EXPERIENCE IN THE ARTS — SUPERVISED PRACTICE
1 Unit
Designed for those majors who wish to combine classroom experience with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Work must directly relate to the student’s area of study. May be repeated for a total of 16 units. Also offered during May, June, and July. Lecture/Other. (A-F Only)

MUSIC - NR

In this program the student will develop skills and knowledge in animal/plant science and I.D., mechanics, communications, public relations, and computations specific to become a park ranger maintenance person, or private entrepreneur in allied jobs including game farm worker. This program will also prepare the student for transfer to a state university or university program when the General Education requirements are completed. Contact the division office in the Agriculture Building for advising assistance.

NR 50—SURVEY OF NATURAL RESOURCES
3 Units
Survey of natural resources, their importance to society and ecological principles of resource conservation; identification, conservation, and use of renewable and non-renewable resources; career opportunities and industries associated with natural resources. Field laboratories, including some Saturdays, required. Lecture/Laboratory.

NR 53—INTRODUCTION TO AGRICULTURE RESOURCES AND RURAL RECREATION
3 Units
Natural resources as industries and basic skills relate to natural resources management. Concepts in natural resources management, soil and land, water, forest, fish and wildlife, outdoor recreation, energy, mineral and metal resources, and opportunities for employment. Field trips required. Lecture/Laboratory.

NR 200—SOILS
4 Units
Study of soil derivation, classification and characteristics. Soil use and management including erosion, moisture, retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, and soil reaction, soil fertility and physical properties of soil. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (CAN AG 14) General Education: (MJC-GE:A) (CSU-GE: B1)

NR 215—WILDLIFE PRODUCTION
3 Units
Wildlife production and management and its relationship to humans; managing game for sustained yields. Production principles for common game species found in this area; habitat improvement; species compatibility and interrelationships; wildlife and fish identification. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU (CC NATRC 181) General Education: (MJC-GE:A)

NR 220—INTRODUCTORY FORESTRY
3 Units
Forestry as an industry and basic skills in forest production and ecology, including fire protection, cruising, scaling, tree planting, nursery practices, harvesting, forest engineering, use of forest land for recreational purposes, opportunities for employment and utilization of technology available to survey and measure forest yields. Field laboratories required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC (CC FORES 1) General Education: (MJC-GE:A)

NR 222—NATIVE TREE AND SHRUB IDENTIFICATION
3 Units
Formerly entitled: “Native Plants Identification”
The study of botanical characteristics, taxonomy, physiology, and community relationships of the major trees and shrubs in California and the Western United States. Includes discussion of commercial uses and geographic ranges of native plants common to the region. Field trips outside of regular class hours. Field trips required. (A-F Only). One completion allowed. Transfer: CSU.

NR 224—MAPPING AND PHOTO INTERPRETATION
3 Units
Prerequisite: Satisfactory completion of EHS 201 or 202 or NR 220 or 222 or 376, or equivalent.
Introduction to principles and practices of interpreting aerial photographs. Emphasis on vegetation typing, mapping, road reconnaissance and inventory techniques. Use of aerial photographs to obtain location, area, vegetation types, timber volume. Explanation of Geographic Information Systems and its application to forestry and natural resources. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

Continued
### NURSE 259—VN TRANSITION: PREPARING FOR A ROLE CHANGE
Prerequisite: Students must provide evidence of licensure as a Licensed Vocational Nurse (LVN) in the State of California, and completion of ADN program prerequisites.
Concurrent enrollment in NURSK 800
Applies skills and knowledge required for Licensed Vocational Nurses desiring to enter the 3rd semester of the Associate Degree Nursing program. Concepts and principles of the Nursing Process; role transition; legal, ethical and regulatory issues; and clinical skills inherent in the Registered Nurse role. Lecture/Laboratory. Materials fee required. One completion allowed. (Fall, Spring) (A-F Only). Transfer: CSU

### NURSE 260—NURSING PROCESS: PHARMACOLOGY
2 Units
Prerequisite: Acceptance into the Associate Degree Nursing program.
Concurrent enrollment in: NURSE 261 and NURSK 800
Recommended for Success: Satisfactory completion of FDNTR 219
Enrollment limited to: Capacity of MJC Nursing Program
Introduction to concepts of Pharmacology, including pharmacokinetics, pharmaceutical systems of measurements and calculations, drug classifications, and nursing responsibilities in medical administration. Lecture. One completion allowed. (Fall, Spring) (A-F Only). Transfer: CSU

### NURSE 261—NURSING PROCESS: FUNDAMENTALS
8 Units
Prerequisites: Acceptance into the MJC Associate Degree Nursing Program
Concurrent enrollment in: NURSE 260 and NURSK 800
Recommended for Success: Satisfactory completion of NURSE 115, FDNTR 219
Enrollment limited to: Capacity of MJC Nursing Program
Applies fundamental concepts and principles of the nursing process to the care and needs of patients within the acute care setting. Focus on assessment and care of patients experiencing alterations in basic health needs. Practice of basic clinical skills in a simulated lab setting prior to beginning care in the acute care facility. Additional theoretical principles include therapeutic communication, patient teaching, professional ethics, and legal aspects of nursing. Lecture/Laboratory. Field trips may be required. Materials fee required. One completion allowed. (Fall, Spring) (A-F Only). Transfer: CSU

### NURSE 262—NURSING PROCESS: SKILLS
½ Unit
Prerequisite: Satisfactory completion of NURSE 260 and NURSE 261 with a grade of "C" or better
Concurrent enrollment in: NURSEK 800
Enrollment limited to: Capacity of MJC Nursing Program
Prepares the nursing student to perform nursing skills necessary for satisfactory participation in the obstetrics and pediatric clinical setting. Skills include intravenous therapy, gavage feeding, infant bathing, delivery table set-up, and correct administration of medications. Materials fee required. Laboratory. (A-F Only) (Fall, Spring). Transfer: CSU

### NURSE 263—NURSING PROCESS: MATERNITY
4 Units
Formerly listed as "NURSE 252 - Nursing Process 2"
Prerequisite: Satisfactory completion of NURSE 260 and 261 with a grade of "C" or better.
Corequisite: NURSK 800
Enrollment limited to: Capacity of MJC Nursing Program
Applies the basic principles and concepts of the nursing process to meeting the needs of the childbearing woman, family, and patient with alterations of the reproductive system. Health maintenance, prevention of illness, and patient/family teaching in the hospital and community setting will be emphasized. Includes socio-cultural-spiritual aspects of the family. Field trips may be required. Lecture/Lab. (Fall, Spring) (A-F Only). Transfer: CSU

### NURSE (Nursing)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURSE 200</td>
<td>Nursing Assistant</td>
<td>5½</td>
<td>Preparatory for a nursing assistant in a skilled nursing facility. Upon satisfactory completion of the course, the student is eligible to take the state examination for certification as a Certified Nurse Assistant (CNA). Lecture/Laboratory for 15 weeks. Students entering the course must show proof of a physical examination within the last 3 months, current immunizations and PPD, and will be required to pay for fingerpints and criminal background screening. Materials fee required (fingerpints and criminal background check, items for infection control, and/or malpractice liability insurance). Field trips may be required.</td>
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</tbody>
</table>
NURSE 264—NURSING PROCESS: PEDIATRICS 4½ Units
Formerly listed as "NURSE 252 - Nursing Process 2"
Prerequisite: Satisfactory completion of NURSE 260 and 261 with a grade of "C" or better.
Corequisite: NURSK 800
Enrollment limited to: Capacity of MJC Nursing Program
Applies the principles and concepts of the nursing process to meeting the adaptation
needs of the pediatric patient and patient with alterations of the reproductive system.
Family-centered care in the hospital and outpatient settings will be emphasized. Health
maintenance and prevention of illness is emphasized in patient/family teaching throughout
the course. Field trips may be required. One completion allowed. Lecture/Lab. (Fall, Spring) (A-F Only) Transfer: CSU.

NURSE 265—NURSING PROCESS: MEDICAL-SURGICAL 6 Units
Formerly listed as "NURSE 253 - Nursing Process 3"
Prerequisites: Satisfactory completion of NURSE 262, 263, and 264 with a grade of "C" or better.
Concurrent enrollment in: NURSK 800
Enrollment limited to: MJC Nursing Program capacity
Applies the principles and concepts of the nursing process that focus on promoting
adaptation of adolescent through senescent clients with serious or complex alterations
health. Students will complete didactic units in oxygenation, cardiovascular, hematological,
immunological, and oncologic nursing. Acute hospital settings and hospice services will
be utilized for the clinical practicum of the course. Lecture/Lab. Materials fee required.
Field trips may be required. One completion allowed. (Fall, Spring) (A-F Only) Transfer: CSU.

NURSE 266—NURSING PROCESS: MENTAL HEALTH 4 Units
Formerly listed as "NURSE 253 - Nursing Process 3"
Prerequisites: Satisfactory completion of NURSE 262, 263, and 264.
Concurrent enrollment in: NURSK 800
Enrollment limited to: MJC Nursing Program capacity
Applies the principles and concepts of the nursing process to meet the needs of clients
with psychiatric disorders across the life span. Mental health maintenance, prevention
of illness, patient/family teaching, and therapeutic communication/relationships will be
emphasized. Students will be assigned to an acute psychiatric setting and tertiary areas
that support and provide community mental health care services. Lecture/Lab. Field trips
may be required. One completion allowed. (Fall, Spring) (A-F Only) Transfer: CSU.

NURSE 267—NURSING PROCESS: ADVANCED MEDICAL-SURGICAL 11 Units
Formerly listed as "NURSE 254 - Nursing Process 4"
Prerequisites: Satisfactory completion of NURSE 265 and 266
Concurrent enrollment in: NURSK 800
Enrollment limited to: MJC Nursing Program capacity
Includes advanced medical/surgical concepts and principles in the nursing process.
Promotes role transition from student nurse to professional nursing through a clinical
preceptorship. Student is responsible for all clinical skills learned in previous semesters,
acquires new skills and takes a clinical competency test in the acute care setting. Five-
week preceptorship is the capstone of the nursing program, encompassing all clinical,
technical, and critical thinking skills learned in the program, and emphasizing leadership
in management of the patient care. In preceptors hip, the student works directly with
a registered nursing preceptor in their acute care facility. Lecture/Lab. Materials fee
required. Field trips may be required. One completion allowed. (Fall, Spring) (A-F Only)
Transfer: CSU

NURSE 350—VOCATIONAL NURSE 1 14 Units
Prerequisites: Satisfactory completion of READ 184, ENGL 49, MATH 20, Certified
Nursing Assistant.
Enrollment limited to those admitted to the CNA to LVN program.
Applies the fundamentals of nursing to the care and needs of patients within the acute
and long-term hospital setting. The primary focus of the course is on the care of patients
with alterations in basic health care needs. Students practice fundamental clinical skills
in a simulated lab setting prior to beginning care in the hospital. Additional theoretical
principals taught in the course are Anatomy and Physiology; Pharmacology and
Psychology. Lecture/Laboratory. Field trips required. (A-F Only)

NURSE 351—VOCATIONAL NURSE 2 16 Units
Prerequisite: Satisfactory completion of NURSE 350
Applies basic nursing knowledge to the care and needs of adult patients with disorders
of musculoskeletal system, integumentary system, cardiopulmonary system, neurological
system, urinary system, and endocrine system. Practical experience will be gained in the
acute hospital setting. Lecture/Other. Field trips required. (A-F Only)

NURSE 352—VOCATIONAL NURSE 3 12 Units
Prerequisite: Satisfactory completion of NURSE 351
Applies the basic principles and concepts of the nursing process to meet the adaptation
needs of the pediatric patient, the patient with alterations of the reproductive system,
the childbearing woman and family, basic emergency care, and patient with disorders
of the eyes, ears, nose, and throat. Family-centered care in the acute hospital will be
emphasized. Lecture/Other. Field trips required. (A-F Only)

NURSE 353—VOCATIONAL NURSE 4 8 Units
Prerequisite: Satisfactory completion of NURSE 352
Applies basic nursing knowledge to the care and needs of adult patients with disorders
of the reproductive system and with normal maternity and nursing care. Practice
experience will be gained in the acute hospital setting. Nursing leadership principles
are introduced.

NURSE 354—VOCATIONAL NURSE 5 7 Units
Prerequisite: Satisfactory completion of NURSE 353
Applies the basic principles and concepts of the nursing process to meet the adaptation
needs of the pediatric patient, patients with disorders of the eyes, ears, nose, and throat,
and provide basic first aid and emergency care.

NURSE 355—INTRAVENOUS THERAPY 1 Unit
Prerequisite: Satisfactory completion of NURSE 354
Applies the foundation and basic concepts of infusing therapy, including LVN nursing
responsibilities to the initiation, maintenance, and therapeutic modalities of intravenous
therapy. The course focuses on risk management and legal responsibilities, quality
assessment and competency criteria, infection control practices related to infusion
therapy, fundamentals of fluid and electrolyte balance and special needs of the pediatric
and geriatric population.
NURWE
(Nursing: Work Experience)

Modesto Junior College serves the needs of its students and those of the community through its Cooperative Vocational Work Experience program. A program objective is to provide guidance and opportunity for career planning by students in the real laboratory of the community’s business and industries. Work experience education results when it encompasses a systematic plan whereby students, while in college, gain realistic employment experiences through part-time work.

Students should consult their advisors to determine divisional practice on work experience units acceptable toward major requirements. Pay may or may not be received for work experience programs depending upon the type and place of employment.

NURWE 361, 362 — WORK EXPERIENCE 1,2 Units

NURSE 252, 253, or 254.

Prerequisite: Enrollment in Work Experience during a summer session need only complete one other course, regardless of the number of units. Must be employable as a Nurse Assistant.

Concurrent Enrollment: Enrollment in one of the following: NURSE 252, 253, or 254. If enrolled in Work Experience during summer session, must be in good standing in the Associate Degree Nursing (ADN) program and be enrolled in NURSE 299A or one other college course.

The Nursing Work Experience is designed to provide an opportunity for students enrolled in Vocational Nursing Program to participate in relevant work experiences in a community clinical agency participating in nursing work experience. Students acquire knowledge, skills, and attitudes necessary for success in the field of nursing. (CR/NC Only)

OFADM
(Office Administration)

OFADM 203A, B, C — INTERMEDIATE KEYBOARDING 1,2,3 Units

Recommended for Success: One semester of keyboarding and 40 gross words per minute on a three-minute test.

Further development of keyboarding speed and accuracy skills; practice and drill on production keyboarding; drill and practice on formatting techniques and procedures for setting up business documents: business letters, tabulated reports, reports, business forms, including invoices, interoffice memos, envelopes, outlines, minutes, and agendas. Individualized instruction. Three maximum completions for 203A only. Materials fee required. Open entry/open exit. (A-F Only) Transfer: CSU

OFADM 231 — INTERMEDIATE WORD PROCESSING 3 Units

Recommended for Success: Satisfactory completion of OFADM 203 and either OFADM 330 or CMPSC 274. Also offered as CMPSC 231.

Intermediate word processing features such as mail merge, macros, styles, graphics, tab, and sorts. Features will be applied in creating business documents. Two maximum completions. Materials fees required. Lecture/Laboratory. Transfer: CSU (CC OFTEC 41)

OFADM 232 — ADVANCED WORD PROCESSING AND DESKTOP PUBLISHING 3 Units

Recommended for Success: Satisfactory completion of CMPSC 231 or OFADM 231 or prior knowledge of word processing.

Application of advanced word processing techniques and procedures including those features relating to desktop publishing. For students who are already knowledgeable in word processing software. Lecture/Laboratory. Transfer: CSU

OFADM 301 — BEGINNING KEYBOARDING 1½ Units

Development of basic alphabetic keyboarding skills needed for the operation of the keyboard by the touch system. Drills to develop speed and accuracy on straight copy. Designed for students with no previous keyboarding/typing experience. Lecture/Laboratory. Materials fee required. (A-F Only) Transfer: (CC OFTEC 120)

OFADM 302 — BEGINNING DOCUMENT PROCESSING 1½ Units

Recommended for Success: Satisfactory completion of OFADM 301 or ability to keyboard by touch at 25 GWAM.

Further development of speed and accuracy on the alpha/numeric keyboard. Instruction in opening, saving, naming, printing documents; deletion and addition of text; margin/tab settings; spacing techniques; text editing techniques; vertical/horizontal centering; basic business letter, memo and report formats. Laboratory. Materials fee required. (A-F Only) Transfer: (CC OFTEC 120)

OFADM 303 — KEYBOARDING FOR SPEED AND ACCURACY ¾ Unit

Recommended for Success: Satisfactory completion of OFADM 301 or ability to keyboard by touch at 25 GWAM.

Keyboarding course designed to diagnose a student’s current keyboarding skills needs, prescribe appropriate practice materials, measure skill development, improve speed and accuracy, and continually evaluate the skill-building process. Four maximum completions. Materials fee required. (A-F Only)

OFADM 304 — PROFESSIONAL ENGLISH FOR BUSINESS 3 Units

Recommended for Success: Satisfactory completion of ENGL 49 or equivalent placement by the MJC assessment process.

Review of the mechanics of correct English usage as applied in the business environment. Emphasis on sentence structure, word usage, punctuation, spelling, business vocabulary, dictionary usage, grammar review, and proofreading. Heavy emphasis is placed on the use of various business documents throughout the course for students to apply their writing skills. Lecture.

OFADM 305 — RECORDS MANAGEMENT 3 Units

Filing rules and their application to alphabetic, numeric, geographic, and subject systems; establishing manual and computer filing systems; records, control, retention, transfer, equipment, and supplies; micrographics: using the computer to store, organize, maintain, and retrieve information. Field trips may be required. Lecture/Laboratory.

OFADM 306 — RECORDS MANAGEMENT IN AN OFFICE ENVIRONMENT 3 Units

Recommended for Success: Ability to keyboard assignments.

Development of skills in transcribing typed and handwritten notes using word processing and voice recognition tools. Emphasis will be placed on the mechanics of letter styles, as well as grammar, punctuation, spelling, vocabulary, syllabication, capitalization, proofreading, and use of figures. One completion allowed. (A-F or CR/NC) Lecture.

Continued Ø
OFADM 313—OFFICE SKILLS 3 Units
A study of various positions available in an office. Emphasis on location, skills, salary, benefits and retirement packages of office positions. Covers entry-level skills and experiences necessary for beginning office positions, including career planning, telephone and time management skills. Recommended as a first semester course for students pursuing an Office Administration or Clerical certificate or degree. Field trips may be required. Lecture.

OFADM 314—OFFICE PROCEDURES AND TECHNOLOGIES 3 Units
Recommended for Success: Satisfactory completion of OFADM 203 or 231. A study of the attributes and skills needed to work in an office. Explores duties of receptionist, office clerk, word processing operator, and administrative assistant. Covers topics in telecommunications, reprographics, oral and written communications, mailing and shipping, and financial record keeping. Field trips may be required. Lecture. (Fall Only)

OFADM 315—TODAY’S OFFICE 2 Units
Recommended for Success: Previous completion of all Required Courses for Office Administration or Clerical degree or certificate.
Provides a simulated office environment to give students the experience that is often necessary in obtaining and keeping an office position. Students will be “hired” as an employee within the simulated office with the availability of transferring to other positions later in the course. Application of skills and knowledge necessary to be an effective employee will be emphasized. Upon mastery of necessary skills, students may be placed as interns in offices to gain additional experience. The course should be taken in the student’s last semester before graduation or certificate completion. Field trips may be required. Two maximum completions. Laboratory. (Spring Only)

OFADM 328A,B—MACHINE TRANSCRIPTION 1.2 Units
Recommended for Success: Satisfactory completion of (OFADM 311 or 304) and ability to keyboard 40 gross words per minute.
Instruction and practice in the use of a standard transcribing machine. Individualized instruction in the keyboarding of general business documents including letters, memoranda and reports. Open entry/open exit. Two maximum completions for 328A only. Materials fee required. Laboratory. (A-F Only) Transfer: (CC OFTEC 20)

OFADM 330—BEGINNING WORD PROCESSING 3 Units
Recommended for Success: Beginning keyboarding or equivalent.
Introduction to the use and capabilities of word processing software with hands on experience in creating, revising and printing documents. Course designed for initial exposure to word processing. Students who have completed CMPSC 201, 202, or 274 or OFADM 356 should enroll in OFADM/CMPSC 231. Two maximum completions. Lecture/Laboratory.

OFADM 351—INTRODUCTION TO COMPUTERS AND WINDOWS 1 ½ Unit
Recommended for Success: Ability to keyboard by touch.
Basic introduction to computers and the Windows Operating Environment. Course will explain components of a computer system and provide hands-on training using a personal computer with Windows software. Course is for students new to using personal computers and the Windows environment. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 352—INTRODUCTION TO COMPUTERS AND WINDOWS 2 ½ Unit
Recommended for Success: Ability to keyboard and OFADM 351.
Continuation of OFADM 351. Explores Windows accessories, providing hands-on experience in the use of the features and use of a graphical user interface. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 353—INTRODUCTION TO COMPUTERS AND WINDOWS 1 Unit
Recommended for Success: Ability to keyboard.
A combination of OFADM 351 and 352 courses. Basic introduction to computers and the Windows Operating Environment. Explains components of a computer system and provides hands-on training using a personal computer. Intended for students new to using personal computers and the Windows environment. Lecture/Laboratory.

OFADM 354—INTRODUCTION TO WORD PROCESSING 1 ½ Unit
Recommended for Success: Ability to keyboard by touch.
An introductory course in word processing. Features of word processing software presented in a hands-on learning environment. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 355—INTRODUCTION TO WORD PROCESSING 2 ½ Unit
Recommended for Success: Satisfactory completion of OFADM 354.
A continuation of the OFADM 354 course—Introduction to Word Processing. The course is designed for learning document processing through application of word processing software features. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 356—INTRODUCTION TO WORD PROCESSING 1 Unit
Recommended for Success: Ability to keyboard by touch.
A combination of the OFADM 354 and 355 courses. A beginning course in the use of word processing software. Features of the software will be explained and demonstrated in a hands-on learning environment. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 357—INTRODUCTION TO SPREADSHEET SOFTWARE 1 Unit
Recommended for Success: Satisfactory completion of OFADM 351.
Introduction to spreadsheet software. Spreadsheets features applied to the creation of worksheets. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 358—INTRODUCTION TO SPREADSHEET SOFTWARE 1 Unit
Recommended for Success: Satisfactory completion of OFADM 357.

OFADM 359—INTRODUCTION TO SPREADSHEET SOFTWARE 1 Unit
Recommended for Success: Satisfactory completion of OFADM 351.
A combination of OFADM 357 and 358. Introduction to spreadsheet features applied to the creation of worksheets, charts, worksheet layout, sorting, and copying. Lecture/Laboratory. Materials fee required. (A-F Only)

OFADM 361—INTRODUCTION TO DATABASES 1 Unit
Recommended for Success: Satisfactory completion of OFADM 351 or equivalent.
A beginning course using features of database software. Course is designed to enable students to learn and apply the features of database software to organize information and to work with stored information. Two maximum completions. Lecture. Materials fee required. (A-F Only)

OFADM 362—INTRODUCTION TO BUSINESS PRESENTATION SOFTWARE 1 Unit
Recommended for Success: Satisfactory completion of OFADM 351.
A beginning course using computer software to design slides, outlines, note pages, and audience handouts for business presentations. Two maximum completions. Open entry/open exit. Materials fee required. (A-F Only)

OFADM 363—UNDERSTANDING THE INTERNET 1 Unit
Fundamentals of using the internet. Topics included in the course: internet terminology, use of browsers, search engines and sites, downloading of files and e-mail. Two maximum completions. Lecture. Materials fee required. (A-F Only)

OFADM 364—GRAMMAR IN THE OFFICE 1 Unit
A short course in basic English grammar for office employees. Emphasis on parts of speech, subject and verb, pronoun usage, sentences, punctuation, number usage, and business terms. Open entry/open exit. Materials fee required. (A-F Only)

OFADM 366—PROOFREADING TECHNIQUES 1 Unit
Recommended for Success: Satisfactory completion of OFADM 304.
A self-paced course addressing the skills needed to identify mechanical and content errors in handwritten or printed text by using proofreader’s marks. Grammar, punctuation, and spelling rules will be reviewed. (A-F Only)
OLDAD
(Older Adults)

NON-CREDIT COURSES

OLDAD 820—JEWELRY AND METALCRAFT
Techniques and the construction of jewelry from copper, bronze, sterling silver, and gold; setting of stones in jewelry; and techniques of the lost wax method of casting. Designed for older adults but open to all students. Unlimited repeats. Field trips may be required. Laboratory.

OLDAD 822—LAPIDARY
Basic lapidary skills, faceting, grinding, polishing, and mounting of semiprecious, precious, and ornamental stones. How to recognize, procure, and develop gem materials, experiment with, and display gem ornamentation showing utility and craftsmanship. Diamond saw cutting, carving in stone table tops, and the making of mosaics and intarsia. Designed for older adults but open to all students. Unlimited repeats. Field trips required. Laboratory.

OLDAD 830—PUBLIC SPEAKING: TALKING IT OUT
Development of effective listening, thinking and speaking skills among the older adult population. Course builds and reinforces speech development skills. Unlimited repeats. Lecture.

OLDAD 854—CHORAL SINGING
Study and performance of either one large-scale work or program of shorter choral works. Public performance required. Field trips may be required. Lecture/Laboratory.

OLDAD 861—CONCERT BAND
Prerequisite: Previous experience in instrumental music or Satisfactory completion of MUSIC 140 or 160. Rehearsal and performance of original wind literature and transcriptions for concert band. Field trips may be required. Laboratory/Rehearsal.

OLDAD 862—COMMUNITY ORCHESTRA
Recommended for Success: Previous experience in instrumental music. Rehearsal and public performance of orchestral music (from all areas and nationalities). Field trips may be required. Laboratory/Rehearsal. Unlimited repeats.

OLDAD 874—CLOTHING CONSTRUCTION THROUGH KNITTING
Use of needles and yarn, study design principles, charting of garments, blocking and fitting, and garment construction. Designed for older adults but open to all students. Unlimited repeats. Laboratory.

PE (Physical Education)

The Physical Education program at MJC offers a balanced approach based upon the individual interests and needs of the student. In addition to a wide spectrum of physical education activity classes, MJC offers intercollegiate competition in many sports and adaptive physical education courses. Theory classes are offered in basketball, football, track and field, wrestling, softball, and baseball. Since the majority of career opportunities in Physical Education exist for students completing a bachelor's degree, general education and transfer courses are carefully planned so that students are well prepared for individual career needs and upper division college work.

Courses should be selected with the assistance of a Physical Education faculty advisor. Students interested in a career in Physical Education are encouraged to take a variety of activity classes each semester, thereby broadening their activity skills before transfer.

Repeat Limitations on Physical Education Courses

No activity may be taken more than four times, regardless of the number of skill levels it may have listed. Students who have met the limit of repetition may continue to enroll in such courses as a Community Participant, registering in the Community Education Office, Morris Memorial 204. Varsity sports are exempt.

For purposes of this limitation, activities are defined as Adaptive, Baseball, Basketball, Body Mechanics, Bowling, Cross Country, Dance, Diving, Fencing, Football, Golf, Gymnastics, Lifesaving, Racquetball, Self-Defense, Soccer, Softball, Swimming, Table Tennis, Tennis, Track and Field, Volleyball, Water Polo, Weight Training, and Wrestling.

CSU - 12 units maximum.

UC - See UC All Campus Credit List for credit limitations
(Available in Counseling Office)

Graduation Activity Requirement

Physical Education classes used to fulfill the graduation activities requirement must be from the PEA, PEC, PEM, PEW, PEVM, or PEVW class listings.

PE 90A, B—ASSISTING IN ADAPTED PHYSICAL EDUCATION

Prerequisite: Satisfactory completion of PE 122

Experience working with physically limited students enrolled in the PEA programs. Emphasis on application and improvement in skills acquired in PE 122. Opportunity to work with students with a wide range and varying degrees of disabilities and disease manifestations. PE 90A has four maximum completions and PE 90B has two maximum completions. Laboratory.

PE 100—INTRODUCTION TO PHYSICAL EDUCATION

3 Units

History, philosophy, and principles of Physical Education. Study of the aims and objectives of modern physical education with emphasis on the development of basic philosophy and background for the profession of physical education. Lecture. (A-F Only) Transfer: CSU, UC. (CAN KINE/PE 2)
PE 101 — BASKETBALL THEORY
1 Unit

PE 102 — OFFENSIVE FOOTBALL THEORY
2 Units
An analysis of offensive position and team play. Critical analysis of offensive techniques, rules, physical and mental training procedures, and film evaluation. Lecture. Transfer: CSU, UC

PE 103 — TRACK AND FIELD TEAM CONCEPTS
1 Unit
Specialized approach to track and field. Rules, training procedures, strategy, and performance evaluation. Two maximum completions. Lecture. Transfer: CSU, UC

PE 104 — WRESTLING THEORY
1 Unit
Analysis of wrestling; rule interpretations, winning psychology; film analysis. Lecture. Not offered every semester. Transfer: CSU, UC

PE 105 — DEFENSIVE FOOTBALL THEORY
2 Units
An analysis of defensive position and team play. Critical analysis of defensive techniques, rules, physical and mental training, and film evaluation. Lecture. Transfer: CSU, UC, (Fall)

PE 106 — OFFENSIVE BASEBALL THEORY
2 Units
An analysis of offensive techniques, position and team play. Coverage of rules and training procedures. Two maximum completions. Lecture/Laboratory. Not offered every semester. Transfer: CSU, UC

PE 107 — DEFENSIVE BASEBALL THEORY
2 Units
Analysis of defensive techniques, position and team play. Coverage of rules and training procedures. Two maximum completions. Lecture/Laboratory. Not offered every semester. Transfer: CSU, UC

PE 108 — CARE AND PREVENTION OF ATHLETIC INJURIES
3 Units
Designed for prospective coaches, trainers, health and physical educators, and athletes; to aid in the recognition, evaluation and care of athletic injuries. Techniques in taping, prevention, and rehabilitation of injuries. Sport specific injuries are examined and discussed to familiarize students with the multitude of injuries that can and will occur in sporting activities. Field trips are required. Lecture. Transfer: CSU, UC. (A-F Only) (CAN KINE/PE 4) (CC H-HP 4)

PE 109 — PEAK PERFORMANCE THROUGH MENTAL TRAINING
3 Units
The study of and practical experience in techniques for maximizing sport and dance performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration. Lecture. Transfer: CSU, UC

PE 110 — OFFICIATING: SPRING SPORTS
3 Units
Regulations and techniques of officiating baseball and softball. Lecture. (Fall) Transfer: CSU

PE 111 — APPLICATION OF SPORTS MEDICINE
3 Units
Prerequisite: Satisfactory completion of PE 108
Practical application of modalities and techniques used in the treatment and care of athletic injuries for the prospective Athletic Trainer. Emphasis on injury recognition, development of conditioning and reconditioning programs, and taping techniques to enable athletes to return to competitive activities. Lecture. (A-F Only) Transfer: CSU, UC

PE 113 — OFFENSIVE/DEFENSIVE SOFTBALL THEORY
1 Unit
Analysis of offensive and defensive techniques, strategies, positions, and team play which includes rules and physical and mental training procedures. Two maximum completions. Lecture/Laboratory. Not offered every semester. Transfer: CSU, UC

PE 114 — CROSS COUNTRY CONCEPTS
1 Unit
Specialized approach to cross country and long distance running. Training procedures, performance evaluation, nutritional strength, and racing strategy components. Three maximum completions. Lecture. Transfer: CSU, UC

PE 115 — OFFICIATING: FALL SPORTS
3 Units
Regulations and techniques of officiating football, basketball, and volleyball. Lecture. Transfer: CSU, UC

PE 116 — FOOTBALL TEAM PLAY CONCEPTS
2 Units
Avaluable concepts of team-building in football. Goal-setting and development of individual roles. Exploration of team communication processes and activation of leadership of the successful football team. Lecture/Laboratory. Field trips may be required. (A-F Only) (Fall) Transfer: CSU, UC

PE 121 — COACHING EFFECTIVENESS
3 Units
Roles of a coach in athletics; ethics, physiological systems, physical training theory, sports psychology, and leadership models and management principles. Lecture. (A-F Only) Transfer: CSU

PE 122 — ADAPTED PHYSICAL EDUCATION THEORY AND LAB
3 Units
Common definitions, scope and basic concepts of Adapted Physical Education. A study of specific disabilities, with a primary focus on identification, etiology and implications for physical education. Course includes practical experience in the field. Intended for students interested in pursuing a career in physical therapy, nursing, adapted physical education, gerontology or fields requiring one to work with individuals with disabilities. Lecture/Laboratory Transfer: CSU, UC (A-F Only)

PE 130 — PERSONAL TRAINER
3 Units
HEALTH FITNESS INSTRUCTOR
Recommended for Success: Satisfactory completion of PEC 195, PEC 197, or PEEW 192
Basic competency in designing and implementing fitness programs for a healthy population. Features both practical and theoretical instruction as well as career advice. Emphasis on safe, effective and efficient methods of teaching cardiovascular training, resistance training, balance training and flexibility training for individuals or groups. Covers a broad range of exercise physiology, exercise program design, anatomy of major muscle groups, interval and circuit training, exercise biomechanics, advance lifting techniques, the basics of working with special populations, and exercise progression. Lecture. Maximum one completion. (A-F or CR/NC) Transfer: CSU

PE 132 — AQUATIC FITNESS & HEALTH INSTRUCTOR
3 Units
Basic competency in designing and implementing aquatic fitness programs for a healthy population. Features both practical and theoretical instruction as well as career advice. Emphasis on safe, effective, and efficient methods of teaching cardiovascular training, resistance training, balance training, and flexibility training for group aquatic exercise. Covers a broad range of exercise physiology, exercise program designs, anatomy of major muscle groups, water laws, the basics of working with special populations, and modifications. Field trip may be required. (A-F or CR/NC). One completion allowed. Lecture. Transfer: CSU

PE 141 — SUPERVISION IN ATHLETIC TRAINING
2 Units
Policies and procedures, emergency protocols, vital signs, bloodborne pathogens, and daily functions that are necessary for the student to work in the Athletic Treatment Center. Students will develop a plan using decision-making strategies, analysis, and an awareness of the factors related to medical protocols. The students will work in the Athletic Treatment Center with our athletes and coaches for an in-depth experience related to sports medicine. Field trips may be required. Four maximum completions. Lecture/Laboratory. (A-F Only). Transfer: CSU

PE 194 — INTRODUCTION TO WORLD DANCE
3 Units
Also offered as THETR 194
A survey of dance and its development as an art form through social, political, and cultural context. Investigation of cultural traditions and styles, values, aesthetics and more will be explored. Field trips required. Lecture. Transfer: CSU, UC General Education: (CU-GE: C1) (IGETC: 3B)
PEA 102—ADAPTIVE WEIGHT TRAINING  1 Unit
Use of adaptive weight room and equipment for body maintenance, strengthening and conditioning. Recommended for Success: Meidcal verification of physical or learning disability or motor problems. (MJC Activities) Transfer: CSU, UC

PEA 104—ADAPTATED STRENGTH DEVELOPMENT  1 Unit
Recommended for Success: Provide medical verification of disability and recommendation of medical specialist. Development and maintenance of muscular strength for students with physical/medical limitations. Emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Four maximum completions. (MJC Activities) Transfer: CSU, UC

PEA 106—FUNCTIONAL WATER EXERCISE  1 Unit
Recommended for Success: Medical verification of physical or learning disability or motor problems. A specialized course in physical fitness involving group aquatic exercises which include range of motion, strength, endurance, and flexibility training. Specialized adapted equipment appropriate for limited mobility conditions may be used. (MJC Activities) Transfer: CSU, UC

PEA 107—ADAPTATED SWIMMING  1 Unit
Recommended for Success: Medical verification of physical or learning disability or motor problems. Basic swimming and water safety skills. A specialized course in physical exercise which includes: personalized and group aquatic exercises for strength, endurance, and flexibility which may which may involve specialized adapted equipment appropriate to one's disability or injury. (MJC Activities) Transfer: CSU, UC

PEA 108—ADAPTATED AQUATICS  1 Unit
Recommended for Success: Medical verification of physical or learning disability or motor problems. A specialized course in physical exercise which includes: personalized and group aquatic exercises for strength, endurance, and flexibility which may which may involve specialized adapted equipment appropriate to one's disability or injury. (MJC Activities) Transfer: CSU, UC

PEA 116—ADAPTATED RUN/WALK  1 Unit
Recommended for Success: Medical verification of physical or learning disability or motor problems. Personalized and group exercises that include development of an overall fitness routine involving conditions for walking and/ or running: balance, gait, functional motor control, developmental movement, strength and endurance. Emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Recommended for students with physical and learning disabilities. Laboratory. Four maximum completions. (MJC Activities) Transfer: CSU, UC

PEA 119—ADAPTED SPORTS  1 Unit
Recommended for Success: Medical verification of physical or learning disability or motor problems. Introduces students with a physical and/or developmental disabilities to a variety of sports. Recommended for Success: Meidcal verification of physical or learning disability or motor problems. A specialized course in physical exercise which includes individual and group exercises that include development of an overall fitness routine involving all aspects of body conditioning: balance, flexibility, functional motor control, developmental movement, strength and endurance. There will be an emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEA 141—ADAPTED FITNESS  1 Unit
Recommended for Success: Provide medical verification of physical or learning disability or motor problems. Non-credit Courses

PEC (Physical Education: Coed Activities)

PEC 102, A—WATER AEROBICS  ¼, 1 Unit
Formerly listed as PE-W 102
Designed to elevate the heart rate to contribute to cardiovascular fitness; provide increased resistance for strength improvement with virtually no impact; help joints move through their range of motion, promoting flexibility. Lecture/Laboratory. Not offered every semester. (MJC Activities) Transfer: CSU, UC

PEC 108, A—DEEP WATER AEROBICS  ¼, 1 Unit
Recommended for Success: Basic swimming and water skills
Group aquatic exercises utilizing strength, endurance, flexibility training in deep water which can involve specialized aquatic equipment. (MJC Activities) Transfer: CSU, UC

PEC 106, A—BADMINTON  ¼, 1 Unit
Basic skills, rules, strategy; practice in singles and doubles play. (MJC Activities) Transfer: CSU, UC

PEC 111, A—BEGINNING RACQUETBALL  ¼, 1 Unit
Fundamentals of racquetball. Participation at local court. Expenses are the responsibility of the student. (MJC Activities) Transfer: CSU, UC

PEC 112, A—INTERMEDIATE RACQUETBALL  ¼, 1 Unit
Intermediate skills and theory. Basic singles and doubles play. Participation at local court. Expenses are the responsibility of the student. (MJC Activities) Transfer: CSU, UC

Continued...
PEC 118, A—BOWLING ½,1 Unit
Fundamentals of bowling. Students are required to pay line and shoe charges at bowling alley. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 122, A—BEGINNING MODERN DANCE ½,1 Unit
Also offered as THETR 185.
Fundamental dance movement, elementary composition components. Dance movement education, exploration and recreation. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 123, A—INTERMEDIATE MODERN DANCE ½,1 Unit
Also offered as THETR 186.
Recommended for Success: PEC 122 or THETR 185 or equivalent.
Introduction, exploration and experience in choreography and performance. Movement through space, energy and time and compositional form. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 124, A—ADVANCED MODERN DANCE ½,1 Unit
Also offered as THETR 187.
Recommended for Success: PEC 123 or THETR 186 or equivalent.
Emphasis on composition, improvisation, expression, dance history and philosophy; an outlet for expressive movement ideas. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 126, A—JAZZ DANCE ½,1 Unit
Also offered as THETR 188.
Technique of Jazz Dance with explorations into contemporary derivations of jazz. Emphasis is given to technical style of this form, and to the interrelationship of music and movement. Field trips may be required. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 128, A—AEROBICS ½,1 Unit
Aerobic movements for improved cardiovascular condition, muscle tone, flexibility, balance, agility, coordination and weight control. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 130, A—INTERNATIONAL FOLK DANCE ½,1 Unit
Folk dance is accessible to the average person in good condition at this introductory level. Dances which originated with people living in or native to various countries/areas, such as Middle East, Balkans, Russia, etc. Dance exploration and recreation. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 133, A—BALLET 1 ½,1 Unit
Also offered as THETR 189.
Fundamental ballet techniques and terminology. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 134, A—CONTACT IMPROVISATION ½,1 Unit
Contact improvisation is an exciting movement art form, exploring the vast potential for movement generated by two or more people, communicating spontaneously through weight, motion and touch. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 140, A—EXERCISE FOR FITNESS ½,1 Unit
A course in physical fitness with emphasis on cardiovascular improvement and respiratory efficiency through a variety of physical activities consisting of continuous motion exercises. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 141—FITNESS FOR SPECIAL POPULATIONS 1 Unit
Positive exercise experience to modify personal attitudes and actions toward health and physical activity. Specifically designed for the physically mature individual or those who may have experienced physical impairment. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 143, A—BEGINNING GOLF ½,1 Unit
Fundamentals of golf. Maximum four completions. (A-F or CR/NC Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 144, A—INTERMEDIATE GOLF ½,1 Unit
Recommended for Success: PEC 143 or equivalent.
Further application of golf fundamentals and rules. Maximum four completions. (A-F or CR/NC Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 145, A—ADVANCED GOLF ½,1 Unit
Recommended for Success: PEC 144 or equivalent.
Golf course play and skills improvement on individual basis. Maximum four completions. (A-F or CR/NC Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 147, A—GYMNASTICS ½,1 Unit
Tumbling, floor exercise, stunts, and acrobatic skills are taught and practiced in progression and combined for skill development. (A-F or CR/NC) Four completions allowed. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 148, A—YOGA FOR BETTER HEALTH ½,1 Unit
Fitness class using Yoga postures, breathing, and relaxation techniques to increase flexibility and strength, balance and coordination. Appropriate for all ages and learning abilities. Lecture/Laboratory. (A-F or CR/NC) Four completions allowed. (MJC Activities) Transfer: CSU, UC

PEC 150, A—INTERMEDIATE YOGA FOR BETTER HEALTH ½,1 Unit
Recommended for Success: PEC 148 or prior experience in yoga. Intermediate class using yoga postures, breathing, and relaxation techniques to increase flexibility, strength, balance and coordination. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 159—SPIRIT LEADERSHIP TRAINING 3 Units
Instruction, training and development of a corps of spirit leaders to promote enthusiasm for school athletic activities. (MJC Activities) Transfer: CSU, UC

PEC 164, A—SELF DEFENSE ½,1 Unit
A practical course in self defense. Practice of various basic techniques and principles of balance, leverage, and momentum. Discussion of how to avoid threatening situations in the home or on the street. Four completions allowed. (A-F or CR/NC Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 167, A—PADDLE TENNIS/PICKLEBALL ½,1 Unit
A net game played indoors with paddle racquets and whiffle balls. Team play and individual play. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 168, A—BEGINNING SWIMMING ½,1 Unit
Recommended for Success: Must be comfortable in shallow water. Class conducted in a shallow pool.
Basic skills of floating, breathing, kicking, pulling, using arms and legs. Lecture/Laboratory. (A-F or CR/NC) Four completions allowed. (MJC Activities) Transfer: CSU, UC

PEC 170, A—ADVANCED SWIMMING ½,1 Unit
Recommended for Success: PEC 169 or equivalent.
Perfect swimming skills; endurance swimming, starts and turns, practice of competitive strokes. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 171, A—SWIM FOR FITNESS ½,1 Unit
Recommended for Success: Ability to handle self in deep water.
To meet individual needs in basic stroke techniques and endurance swimming for intermediate and/or advanced swimmers. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 172—LIFEGUARD TRAINING 1 Unit
Prerequisite: Pass swimming pre-test, be at least 15 years old on the first day of class.
Preventive lifeguarding, learning how to recognize specific characteristic behaviors of patrons at an aquatic facility; facility emergency planning; First Aid and CPR for the Professional Rescuer included. Successful course completion results in American Red Cross certification in lifeguard training, CPR and first aid. (A-F or CR/NC) Four completions allowed. Materials fee required. (MJC Activities) Transfer: CSU, UC

PEC 173—WATER SAFETY INSTRUCTOR 1 Unit
Recommended for Success: Must be able to perform skills in the swimmer courses.
Techniques, methods skills and knowledge necessary to teach nine American Red Cross course levels—infant to adult age. Certificates are awarded upon satisfactory completion to those students who were at least 17 years of age on the first day of class. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC
PEC 174, A—TABLE TENNIS ½, 1 Unit
Instruction in basic skills, rules, strategy, practice in singles and doubles play, plus supplemental films, video tapes and class competition. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 175, A—BEGINNING TENNIS ½, 1 Unit
Fundamentals of tennis. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 176, A—INTERMEDIATE TENNIS ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 175 or equivalent. Development of net and backcourt skills and strategies, net play, volleying, and proficiency in rules, terminology, and etiquette. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 177, A—ADVANCED TENNIS ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 176 or equivalent. Skills and strategy of competitive tennis, including tournaments, and ladder play. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 178, A—TOURNAMENT TENNIS ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 177 or competitive tennis experience. Designed for the expert tennis player and includes intra-class competition. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 179, A—TRACK AND FIELD ½, 1 Unit
Generalized training and techniques for track and field. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 182, A—TRAINING FOR DISTANCE RUNNING ½, 1 Unit
Become better prepared for endurance distance running with organized training runs. Information on creating an effective training program, nutrition, weight training and cross training. Field trips may be required. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 183, A—Volleyball ½, 1 Unit
Fundamentals of volleyball. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 184, A—POWER VOLLEYBALL ½, 1 Unit
Recommended for Success: PEC 183 or equivalent. Power volleyball for team play. Advanced offensive and defensive strategy and game skills. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 185, A—HIKING 1 ½ Units
This course emphasizes using and creating familiarity with trails within this area (a parameter of no more than two hours by car). Lectures will also cover the use of compass and map, various hiking themes, hiking activities, hiking safety, and awareness of the unique aspects of areas to be hiked. Lecture/Laboratory. Four maximum completions. Field trips required. (MJC Activities) Transfer: CSU, UC

PEC 186, A—INTERMEDIATE VOLLEYBALL ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 183 Intermediate skills and theory. Intermediate offensive and defensive strategy. Lecture/Laboratory. (A-F Only) Four completions allowed. (MJC Activities) Transfer: CSU, UC

PEC 187, A—PILATES FOR FITNESS ½, 1 Unit
A fitness class that utilizes the Pilates exercise system focused on improving flexibility and strength for the total body through a series of controlled movements. Pilates exercises can improve posture, alignment, coordination and balance. Movements are designed to tone muscles without putting stress on the spine. For people of all ages and fitness levels. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 190, A—ADVANCED WATER POLO ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 189 or equivalent. Advanced team play and game strategy in water polo for recreation exercise. Lecture/Laboratory. Summer. (MJC Activities) Transfer: CSU, UC

PEC 191, A—POWERLIFTING ½, 1 Unit
Prerequisite: Satisfactory completion of PEC 190 or PEW 192. Advanced techniques of effective strength training in a supervised weight training program with emphasis on traditional powerlifting using free weight. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEC 195, A—WEIGHT TRAINING 1 Unit
Principles and procedures of effective strength training techniques in a supervised weight training program. Lecture/Laboratory. (A-F or CR/NC) Four completions allowed. (MJC Activities) Transfer: CSU, UC

PEC 197, A—ADVANCED WEIGHT TRAINING ½, 1 Unit
Recommended for Success: Satisfactory completion of PEC 195 or PEW 192. Advanced techniques of effective strength training in a supervised weight training program with emphasis on Olympic lifts with free weight. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC.

NON-CREDIT COURSES

PEC 809—EXERCISE AND HEALTH FOR MATURE ADULTS
Exercise and discussion of basic nutrition and other health factors. Open to all students but designed primarily for people over 50. Unlimited repeats. Lecture/Laboratory.

PEC 825—ADVANCED BASKETBALL TEAM PLAY
An introduction to advanced concepts and skills of collegiate basketball play for high school students. Laboratory. (NG) Summer.

PEC 841—EXERCISE FOR SPECIAL POPULATIONS
Exercises designed to modify personal attitudes and actions toward health and physical activity. Specifically adapted for the physically mature individual or those who may have experienced physical impairments. Unlimited repeats. Lecture/Laboratory.

PEI (Physical Education: Intramurals)

The PEI series. Intramural activities providing opportunity for individual and group competition. See previous section on “Repeat Limitations on Physical Education Courses.” Laboratory: 2 hours per week. Transfer: CSU, UC, CR/NC Only, 9 wks.

PEI 112 FOOTBALL ........................................ ½ Unit
PEI 117 SOFTBALL ........................................ ½ Unit
PEI 122 INTERMEDIATE TENNIS ...................... ½ Unit
PEI 123 ADVANCED TENNIS ............................ ½ Unit
PEI 125 TABLE TENNIS .................................. ½ Unit
PEI 129 VOLLEYBALL .................................... ½ Unit

PEM (Physical Education: Men's Activities)

PEM 108, A—BASEBALL ½, 1 Unit
Fundamentals and theory of baseball. Lecture/Laboratory. Four completions allowed. (A-F or CR/NC) Transfer: CSU, UC

PEM 111, A—BASEBALL - TEAM PLAY CONCEPTS ½, 1 Unit
Team play approach to game of baseball. Lecture/Laboratory. (MJC Activities) Four completions allowed. (A-F or CR/NC) Transfer: CSU, UC

PEM 112, A—BEGINNING BASKETBALL ½, 1 Unit
Fundamentals of basketball. Lecture/Laboratory. Transfer: CSU, UC

PEM 113, A—INTERMEDIATE BASKETBALL ½, 1 Unit
Intermediate skills and theory. Basic team play concepts. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

Continued 0
PEVM 114—ADVANCED BASKETBALL 3/4 Unit
Advanced skills and theory. Concepts of competitive team play. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEVM 115, A—BASKETBALL TEAM PLAY CONCEPTS 3/4 Unit
Team play approach to game of basketball. Lecture/Laboratory. Not offered every semester. (MJC Activities) Transfer: CSU, UC

PEVM 140, A—TOUCH FOOTBALL AND KANAKI 3/4 Unit
Discussion and practical applications of rules and strategy, with emphasis on individual movements found in offensive and defensive touch football and kanaki. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEVM 141, A—ADVANCED TOUCH FOOTBALL 3/4 Unit
Recommended for Success: Satisfactory completion of PEVM 140 or Interscholastic or Intercollegiate football. Conditioning, skills, rules, and strategies with emphasis on the passing game to prepare for participation in advanced football. Lecture/Laboratory. Not offered every semester. (MJC Activities) Transfer: CSU, UC

PEVM 162, A—SOCCER 3/4 Unit
Practical application of basic offensive and defensive tactics; individual and team skills; strategy and rules review; scrimmages. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEVM 196, A—ADVANCED WRESTLING 3/4 Unit
Advanced skills of wrestling; theory, strategy. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEVM 115—VARSITY FOOTBALL 3 Units
Instruction, training, and competition in intercollegiate football. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEVM 120—MEN'S VARSITY GOLF 3 Units
Instruction, training, and competition in intercollegiate golf. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEVM 122—MEN'S VARSITY SOCCER 3 Units
Instruction, training, and competition in intercollegiate soccer. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEVM 125—MEN'S VARSITY SWIMMING AND DIVING 3 Units
Recommended for Success: Concurrent enrollment in PEC 170, 195 Instruction, training, and competition in intercollegiate swimming and diving. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEVM 130—MEN'S VARSITY TENNIS 3 Units
Instruction, training, and competition in intercollegiate tennis. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEVM 135—MEN'S VARSITY TRACK-FIELD 3 Units
Instruction, training, and competition in intercollegiate track and field events. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEVM 140—MEN'S VARSITY WATER POLO 3 Units
Recommended for Success: Concurrent enrollment in PEC 170, 195 Instruction, training and competition in intercollegiate water polo. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEVM 145—VARSITY WRESTLING 3 Units
Instruction, training, and competition in intercollegiate wrestling. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

Continued 0
PEW 115—WOMEN'S VARSITY GOLF  
3 Units  
Instruction, practice, and competition in intercollegiate golf. Four maximum completions. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEW 120—WOMEN'S VARSITY SOFTBALL  
3 Units  
Instruction, training, and competition in intercollegiate softball. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEW 123—WOMEN'S VARSITY SOCCER  
3 Units  
Instruction, training and competition in intercollegiate soccer. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEW 125—WOMEN'S VARSITY SWIMMING AND DIVING  
3 Units  
Instruction, training, and intercollegiate competition in swimming and diving. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEW 130—WOMEN'S VARSITY TENNIS  
3 Units  
Instruction, training, and competition in intercollegiate tennis. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEW 135—WOMEN'S VARSITY TRACK AND FIELD  
3 Units  
Instruction, training, and competition in intercollegiate track and field events. Laboratory/Other. (Spring) (MJC Activities) Transfer: CSU, UC

PEW 140—WOMEN'S VARSITY VOLLEYBALL  
3 Units  
Instruction, training, and competition in intercollegiate volleyball. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEW 145—WOMEN'S VARSITY WATER POLO  
3 Units  
Instruction, training and competition in intercollegiate water polo. Four maximum completions. Laboratory/Other. (Fall) (MJC Activities) Transfer: CSU, UC

PEW (Physical Education: Women's Activities)

PEW 116, A—EXERCISE FOR HEALTHY LIVING  
½,1 Unit  
The theory of exercise, including techniques of endurance, methods of strength attainment, flexibility training, nutritional influences on exercise and weight control. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEW 164, A—WOMEN'S INDOOR-OUTDOOR SOCCER  
½,1 Unit  
Practical application of basic offensive and defensive tactics; individual and team skills; strategy and rules review; scrimmages. Indoor rules and techniques will be applied when facility is available. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEW 166, A—WOMEN'S SELF DEFENSE  
½,1 Unit  
A practical course in women's self defense. Practice of various basic techniques and principles of balance, leverage and momentum. Discussion and practical exercises on how to avoid threatening situations in the home or on the street. Open to all female students. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PEW 180, A—WOMEN'S SOFTBALL  
½,1 Unit  
Discussion and practical application of rules, strategy, fielding, throwing, baserunning, team offense, and team defense. Lecture/Laboratory. Not offered every semester. (MJC Activities) Transfer: CSU, UC

PEW 192, A—WOMEN'S WEIGHT TRAINING  
½,1 Unit  
Introduction to individual opportunities in development of power, strength, flexibility and/or endurance through weight training. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

PHILO (Philosophy)

PHILO 101—PHILOSOPHY  
3 Units  
A careful and critical examination of some of the “Great Questions” philosophers have pursued from ancient times to the present. Some of these include: What is human nature? What is real? Do we have free will? Does God exist? What can we know? How should we act? What is the source of evil? And, what is the nature of truth? Lecture. Transfer: CSU, UC (CAN PHIL 2) (CC PHILO 1) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 103—SYMBOLIC LOGIC  
3 Units  
Also offered as CMFSC 103. An introduction to modern deductive logic; includes sentential and predicate logic with identity theory and definite descriptions. Lecture. Transfer: CSU, UC (CAN PHIL 6), CSU, UC General Education: (MJC-GE: D2) (CSU-GE: A3)

PHILO 105—REASONING  
3 Units  
Prerequisite: Satisfactory completion of ENGL 101. An examination of logic and its practical application in everyday situations, including problem solving, advertisement discrimination, political evaluation and argumentation. Lecture. Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-GE: A3) (IGETC: 1B)

PHILO 107—PHILOSOPHY OF SCIENCE  
3 Units  
Prerequisite: Satisfactory completion of ENGL 101. Systematic study of the methods of scientific inquiry. Application of critical thinking through philosophical analysis of scientific methodology. Significant emphasis on essay writing in developing analytic skills. For both science and non-science majors. Lecture. Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-GE: A3) (IGETC: 1B)

PHILO 111—ETHICS: THEORY AND APPLICATION  
3 Units  
Systematic study of reflective choice, standards of right and wrong by which it may be guided and attainable goods toward which it may be directed. Readings on concepts of good, duty, egoism, altruism, freedom, personal and social responsibility. Lecture. Transfer: CSU, UC (CAN PHIL 4) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 115—RELIGION: A PHILOSOPHICAL AND COMPARATIVE INQUIRY  
3 Units  
Introduction to the philosophical problems of religion and a comparative analysis of religious traditions and spiritual practices. Topics include the nature and existence of God, faith and reason, religious knowledge, language and experience in human life. Lecture. Transfer: CSU, UC (CC HUMAN/PHILO 4) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 120—HISTORY OF PHILOSOPHY: ANCIENT  
3 Units  
Western ideas and philosophers from ancient Greece to the 16th century, with a consideration of prominent Eastern philosophies. The primary focus is on Greek and Roman philosophy, and the development of Christian philosophy through the middle ages. Some of the topics include free will/determinism, the nature of existence, being, definition and logic. Lecture. Transfer: CSU, UC (CAN PHIL 8, CAN PHIL SEQ A) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 121—HISTORY OF PHILOSOPHY: MODERN  
3 Units  
Western ideas and philosophers from the 16th century to the present, with a consideration of prominent Eastern philosophies. The primary focus is on renaissance thought, the rise of modern science, 18th and 19th century empirical thought and critical philosophies, and trends in the 20th century. Lecture. Transfer: CSU, UC (CAN PHIL 10, CAN PHIL SEQ A) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 123—TWENTIETH CENTURY PHILOSOPHY  
3 Units  
An examination of late nineteenth and twentieth century philosophy, including but not limited to representative thinkers of American Pragmatism, Continental Existentialism and Phenomenology, and Anglo-American Analytic Philosophy. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

Continued...
PHILO 130—POLITICAL THEORY 3 Units
Also offered as POLSC 130.
A study of social and political thought using classical and contemporary writings, with emphasis on current issues. Ideologies discussed include democracy, socialism, capitalism, communism, fascism, and anarchism. Lecture. Transfer: CSU, UC General Education: (CSU-GE: DB) (IGETC: A)

PHILO 140—PHILOSOPHY AND FILM 3 Units
An introduction to philosophical problems and reasonings through an analysis of films. Topics discussed include philosophy of life and existence, political ideologies, the nature of aesthetic experience, and theories of film. Field trips may be required. Lecture/Laboratory Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2)

PHILO—PHYSO

PHYS 103—GENERAL PHYSICS: ELECTRICITY, MAGNETISM & MODERN OPTICS 4 Units
Prerequisites: Satisfactory completion of PHYS 101 and MATH 172.
Continuation of calculus-based Physics 101, electricity, magnetism, and modern physics. Field trips may be required. Lecture/Laboratory/Discussion. Materials fee may be required. (Spring) Transfer: CSU, UC (CAN PHYS 12, CAN PHYS SEQ B) (CC PHYS 5B) General Education: (CSU-GE: B1) (IGETC: 5A)

PHYS 142—MECHANICS, HEAT AND WAVES 4 Units
Prerequisite: Satisfactory completion of MATH 115 or 122 or qualification by the MJC assessment process.
Non-calculus introduction to principles and laws of mechanics, thermodynamics and waves. Field trips may be required. Lecture/Laboratory/Discussion. One completion allowed. (A-F or CR/NC) Transfer: CSU, UC (CAN PHYS 2, CAN PHYS SEQ A) (CC PHYS 4A) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

PHYS 143—ELECTRICITY, MAGNETISM, OPTICS, ATOMIC AND NUCLEAR STRUCTURE 4 Units
Prerequisite: Satisfactory completion of PHYS 142
Continuation of PHYS 142, including electricity, magnetism, light and atomic structure. Field trips may be required. Lecture/Laboratory/Discussion. Field trips may be required. One completion allowed. Transfer: CSU, UC (CAN PHYS 4, CAN PHYS SEQ A) (CC PHYS 4B) General Education: (CSU-GE: B1) (IGETC: 5A)

PHYS 160—DESCRIPTIVE INTRODUCTION TO PHYSICS 3 Units
Prerequisite: Satisfactory completion of MATH 70 or qualification by MJC assessment process.
Survey of main topics of physical inquiry including electricity and magnetism, light and optics, wave motion, mechanics, heat, atomic and nuclear theory. Field trips may be required. Lecture. Transfer: CSU, UC (CC PHYS 1) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

PHYS 164—PHYSICS ENVIRONMENTAL LABORATORY 1 Unit
Concurrent enrollment in or previous completion of PHYS 160.
Experience using applications in physical science; e.g., physics environments and related sciences. Field trips may be required. Laboratory. Materials fee may be required. Not offered every semester. Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B1)

PHYS 165—INTRODUCTORY PHYSICS 4 Units
Recommended for Success: Satisfactory completion of MATH 115 or 122, or qualification by the MJC assessment process.
Introduction to physics through the study of measurement in the areas of mechanics, wave motion, thermodynamics, and electricity. Develops the theoretical and experimental foundation for PHYS 101 and PHYS 142. Lecture/Laboratory/Discussion. Materials fee may be required. (Fall) Transfer: CSU, UC General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

PHYSO—PHYSIO

PHYSO 101—INTRODUCTORY HUMAN PHYSIOLOGY 4 Units
Prerequisite: Satisfactory completion of ANAT 125 and CHEM 143 and (BIO 101 or BIO 111)
Study of body function, organ system integration, communication, and homeostasis at the biochemical, cellular, and systemic level. Includes control of osmolality, protein synthesis and cellular metabolism; cellular communication, neural information processing, blood movement and hemostasis; fluid balance, respiration and digestion; reproduction; sensory perception and control of movement. Intended for students entering health professions (A-F or CR/NC) One completion allowed. Transfer: CSU, UC (CAN BIOL 12, CAN BIOL SEQ B) (CC BIOL 60) General Education: (CSU-GE: B2) (IGETC: 5B)

Continued 0
PLSC 50—PREPARATORY PLANT SCIENCE 3 Units
Preparation in plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. Field trips required. Lecture. General Education: (MJC-GE-A)

PLSC 200—INTRODUCTION TO PLANT SCIENCE 3 Units
Introduction to plant science, including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. Field trips required. Lecture. (A-F Only) Transfer: CSU, UC (CAN AG 8) General Education: (MJC-GE-A) (CSU-GE-B)

PLSC 205—FIELD CROPS 3 Units
Economic importance, adaptation, cultural practices, irrigation, integrated pest management, cost analysis, calendar of operations, and marketing in the production of field crops (including: barley, oats, wheat, corn, grain sorghum, alfalfa, rice, dry beans, sugar beets, cotton, and seed crops). Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU (A-F Only)

PLSC 215—VEGETABLE CROPS 3 Units
Vegetable crops common to the area, economic importance, cultural sequence, fertilization, irrigation, cultivation, integrated pest control, harvest and related factors; marketing, cost analysis, risks; environmental relationships including moisture, temperature, soil and weather in the production of vegetable crops. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC

PLSC 230—FRUIT SCIENCE 3 Units
Elementary botany of fruit and nut crops including growth and fruiting habits, varieties, characteristics and adaptations; environmental factors influencing local fruit production; pruning and training procedures on local fruit crops. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU, UC General Education: (MJC-GE-A)

PLSC 235—PLANT PROPAGATION/PRODUCTION 3 Units
Recommended for Success: Satisfactory completion of PLSC 200 and/or EHS 210. Also offered as EHS 235. Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control, structures and site layout. Preparation and use of propagating and planting mediums. Use and maintenance of common tools and equipment. Regulations pertaining to plant production. Field trips required. One completion allowed. Lecture/Laboratory. Not offered every semester. (A-F Only) Transfer: CSU

PLSC 241—VITICULTURE 3 Units
Recommended for Success: Satisfactory completion of NR 200 and PLSC 200. California grape production; study of table and wine grape varieties, uses, adaptations and products, production practices, propagation and planting; training, pruning and irrigation systems; recognition and control of grape pests and diseases. Student is required to design a new vineyard and critique an existing operation. Field trips required. Lecture/Laboratory. (A-F Only) (Fall) Transfer: CSU

PLSC 244—WINE GRAPE VINEYARD DEVELOPMENT 1 Unit
Wine grape vineyard development including site evaluation through vineyard design, development planning and scheduling, installation, and management. Field trips may be required. Three maximum completions. Lecture. Transfer: CSU

PLSC 248—ORCHARD MANAGEMENT 3 Units
Evaluation of local fruit production factors including soils, climate, irrigation, fertilization, and harvesting; fruit ranch organization emphasizing investment, labor, production cost and sales. Student is required to outline calendar of orchard operations. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

PLSC 250—PLANT NUTRITION AND FERTILIZERS 3 Units
Recommended for Success: Satisfactory completion of NR 200. An overview of plant nutrition principles in order to understand fertilizers, their uses, value, application, and relationship to soils and to crops grown in this area. Deficiency symptoms, pH, soil and plant tissue testing, and environmental factors and concerns. Field trips required. Lecture/Laboratory. Transfer: CSU, UC (CAN AG 10) General Education: (MJC-GE-B) (CSU-GE-D) (IGETC: 4)

PLSC 255—PLANT PEST CONTROL 3 Units
Study of crop mites and insects, their morphology, identification, life cycles, host and habitat relationships, methods and materials of control. Lecture/Laboratory. (A-F Only) Transfer: CSU

PLSC 260—PLANT DISEASE CONTROL 3 Units
Study of common local crop diseases, their economic importance, identification, life cycles, host and habitat relationships, and methods of control. Field trips required. Lecture/Laboratory. (A-F Only) Transfer: CSU

PLSC 374—BEEKEEPING 2 Units
Principles of beekeeping designed for both commercial and small operation beekeepers. Includes all basic operations necessary for successful beekeeping. Field trips may be required. Lecture/Laboratory. (A-F Only)

PLSC 380—WEED CONTROL 2 Units
Recommended for Success: Satisfactory completion of PLSC 200 Identification, life cycle, and control of common, noxious, and poisonous California weeds. Fundamentals of preventative, cultural, biological, physical, and chemical control methods. Field trips may be required. Lecture/Laboratory. (A-F Only)

PLSC 383—PESTICIDE APPLICATION 1½ Units
Designed to train students as pest control applicators and assist in passing state certification and licensing exams. Emphasis on the correct and safe method of using pesticides. Field trips required. Two maximum completions. Lecture. (A-F Only)

PLSC 385—PRUNING 1 Unit
Pruning of deciduous fruits, nuts and vines. Care and maintenance of tools and equipment. Proper irrigation, fertilization, and insect control also included. Field trips required. Lecture/Laboratory. Saturday labs. (A-F Only)

PLSC 387—SEMINAR IN INTEGRATED PEST MANAGEMENT 1 Unit
Current topics and discussion on integrated pest management, designed to satisfy Department of Pesticide Regulation requirements for certified pesticide applicator’s continuing education. Field trips may be required. Four maximum completions. Lecture. (A-F Only)

PLSC 388—SEMINAR IN INTEGRATED PEST MANAGEMENT 2 1 Unit
Current topics and discussion on integrated pest management, designed to satisfy Department of Pesticide Regulation requirements for certified pesticide applicator’s continuing education. Students who complete the maximum completions of PLSC 387 should enroll in this course. Lecture. Field trips may be required. Four maximum completions. (A-F Only)

POLSC (Political Science)

POLSC 101—AMERICAN POLITICS 3 Units
Introduction to United States politics emphasizing the essential institutions, groups, beliefs, behaviors and processes that comprise the American political system at the national, state, and local levels. Special attention to rights and obligations of citizenship. Lecture. Transfer: CSU, UC (CAN GOVT 2) (CC POLSC 10) General Education: (MJC-GE-B) (CSU-GE-D) (IGETC: 4)

Continued
POLSC 102—THE CONSTITUTION AND THE RIGHTS OF AMERICANS 3 Units
Introduction to U.S. constitutional government emphasizing the principles and problems of a constitutional system; governmental powers and sources of power at the national, state and local levels. Special emphasis on the role of the courts and the rights and responsibilities of democratic citizenship, including units on racial and sexual discrimination, the rights of the accused, privacy, political participation, and freedom of expression and religion. Special attention to current constitutional problems at the national and state levels. Lecture. Transfer: CSU, UC General Education: (MUC-GE: B) (CSU-GE: D8) (IGETC: 4)

POLSC 110—INTERNATIONAL RELATIONS 3 Units
Introduction to principles and practices of international politics emphasizing problems of war and peace; foreign policies of major powers, problems of third world nations. Emphasis on formulation of American foreign policy within constitutional and political frame. A special unit will cover U.S. constitutional questions as well as California state and local government. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MUC-GE: B) (CSU-GE: D8) (IGETC: 4)

POLSC 111—WAR AND PEACE IN THE TWENTIETH CENTURY 3 Units
Survey of major events and personalities in international politics since 1914. Topics include World Wars I and II; Russian Revolution; Lenin; Hitler; Mussolini; Churchill; rise of Communism in China; the Cold War; revolution in nuclear weapons and the third world; Desert Storm, war in Kosovo. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D8) (IGETC: 4)

POLSC 120—CALIFORNIA POLITICS AND PROBLEMS 3 Units
Analysis of government institutions, politics, issues and political behavior in California in constitutional, social, economic and cultural perspective. Included are studies of issues confronted by U.S. and California state, county, city and regional governments including political representation, resources and energy, land use and planning, population growth, poverty, education, criminal justice, pollution, budgets and taxation. Special attention to the rights and obligations of citizenship. One day field trip to State Capital may be required. Lecture. Transfer: CSU, UC General Education: (MUC-GE: B) (CSU-GE: D8) (IGETC: 4)

POLSC 130—POLITICAL THEORY 3 Units
Also offered as PHIL 130.
A study of social and political thought using classical and contemporary writings, with emphasis on current issues. Ideologies discussed include democracy, socialism, capitalism, communism, fascism, and anarchism. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D8) (IGETC: 4)

POLSC 131—AMERICAN POLITICAL THOUGHT 3 Units
Examines American political thought and culture from the European discovery of the New World to the Civil War. Detailed study of the writings of the Puritans, Jefferson, Madison, Frederick Douglass, Sarah Grimke, Thoreau, Melville, Lincoln, and others. (A-F or CR/NC) One completion allowed. Transfer: CSU

POLSC 140—COMPARATIVE POLITICS 3 Units
Recommended for political science majors.
Comparative survey of major totalitarian, authoritarian and democratic political systems. Emphasis on Great Britain, France, Germany, Russia, People’s Republic of China, Japan and selected Third World countries. Participation in Model United Nations may be required. Lecture. Transfer: CSU, UC General Education: (CSU-GE: D8) (IGETC: 4)

POLSC 151—WOMEN AND POLITICS 3 Units
The status and role of women in American politics from philosophical, empirical, and historical perspectives. The unique place of women in American political history, public policy development, the law, and as political leaders. Women in the international political arena, including leaders and public policy issues. Lecture. Field trips may be required. Transfer: CSU, UC General Education: (CSU-GE: D4, D8) (IGETC: 4)

POLSC 190—MODEL UNITED NATIONS 3 Units
Enrollment limited to 15.
Study of International Organization in International Politics with a special emphasis on the institutions and processes of the United Nations. Participation in a five day Model United Nations simulation of the UN is required. Lecture. Field trips required. Transfer: CSU

PORTG (Portuguese)

PORTG 51—INTRODUCTION TO PRACTICAL PORTUGUESE 1 3 Units
Basic conversational Portuguese. Emphasis on the development of conversational skills rather than on reading and writing. Designed for students who need to speak Portuguese in their work or who wish to refresh their Portuguese-language background, or who need preparation for PORTG 101. Lecture/Laboratory. (Fall) General Education: (MUC-GE: C)

PORTG 52—INTRODUCTION TO PRACTICAL PORTUGUESE 2 3 Units
Recommended for Success: PORTG 51
A continuation of PORTG 51. Designed for those who need it for their work, travel, or to prepare for PORTG 101. Lecture/Laboratory. (Spring)

PSYCH (Psychology)

PSYCH 51—PSYCHOLOGY IN EVERYDAY LIFE 3 Units
Recommended for Success: ENGL 49 eligibility.
Principles of human behavior and personality development and their application to today’s world, including personal and job-related problem solving skills. Lecture. General Education: (MUC-GE: B)

PSYCH 101—GENERAL PSYCHOLOGY 3 Units
Recommended for Success: ENGL 101 eligibility.
Introduction to the areas, concepts, methods and facts of the science of psychology as they relate to the understanding of behavior. Lecture. Transfer: CSU, UC (CAN PSY 2) (CR/PSYCH 1) General Education: (MUC-GE: B) (CSU-GE: D9) (IGETC: 4)

PSYCH 102—RESEARCH METHODS 3 Units
Prerequisite: PSYCH 101
Recommended for Success: ENGL 101 eligibility.
Introduction to experimental psychology. An examination and application of various research methods used by psychologists in order to describe and predict behavior. Field trips may be required. Lecture. Transfer: CSU, UC (CAN PSY 8)

PSYCH 103—PSYCHOBIOLOGY 3 Units
Prerequisite: PSYCH 101
Examination of the relationship between the brain and behavior. The application of experimental methods of psychology, physiology, and related disciplines to the understanding of perceptual processes, control of movement, sleep and waking, reproductive behaviors, ingestive behaviors, emotion, learning, language, and psychopathology is explored. Lecture. Field trips may be required. Transfer: CSU, UC (CAN PSY 10) General Education: (MUC-GE:A) (CSU-GE: B2) (IGETC: 5B)

PSYCH 104—SOCIAL PSYCHOLOGY 3 Units
Recommended for Success: PSYCH 101 and ENGL 101 eligibility.
Study of how individuals affect and are affected by other people in their interaction with one another. The relationship between social behavior and internal processes (attitudes, beliefs, self-concept) will also be examined. Lecture. Transfer: CSU, UC General Education: (CSU-GE: E) (IGETC: 4)

Continued
PSYCH 105—ABNORMAL PSYCHOLOGY 3 Units
Recommended for Success: PSYCH 101
An examination of the broad questions of normality in the context of biological, psychological, sociological, and cultural factors, including major theoretical, diagnostic and treatment approaches. Field trips required. Lecture. Transfer: CSU, UC

PSYCH 110—HUMAN SEXUALITIES 3 Units
Study of human sexualities from a biopsychosocial perspective. The intersections of biology, culture, ethnicity, race, social class, sexual orientation and gender as they relate to sexualities will be explored throughout the course. Lecture. Transfer: CSU, UC (CC PSYCH 5) General Education: (MJC-GE: E) (CSU-GE: E) (IGETC: 4)

PSYCH 111—PSYCHOLOGY OF GENDER 3 Units
Recommended for Success: PSYCH 101
A survey of various factors in the development of gender identity and gender roles, including psychological, sociological, biological and cultural influences. Lecture. Field trips may be required. Transfer: CSU, UC

PSYCH 118—PHARMACOLOGY OF ABUSED SUBSTANCES 3 Units
Also offered as HUMSR 118.
Recommended for Success: HUMSR 116 or PSYCH 101.
An introduction to psychopharmacology and the process of drug addiction. Topics include classification of abused and psychotherapeutic drugs, basic principles of pharmacology, behavioral and psychological effects of drugs, major neurotransmitter systems and how they are influenced by drugs. Lecture. Transfer: CSU

PSYCH 130—PERSONAL ADJUSTMENT 3 Units
The study of personal growth and adjustment. Includes discussion of personality development, interpersonal relationships, stress management, work, and other concerns of the individual in society. Lecture. Transfer: CSU General Education: (MJC-GE: E) (CSU-GE: E)

PSYCH 141—HUMAN LIFESPAN 3 Units
Recommended for Success: PSYCH 101 and ENGL 101 eligibility
Examinations of biological, psychological, social and cultural forces on the developing human being. Field trips may be required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: E) (CSU-GE: E) (IGETC: 4)

RATV (Radio/Television)

RATV 101—BASIC VOICE AND ARTICULATION 3 Units
Formerly listed as "Basic Voice Improvement"
Also offered as SPCOM 101 and THETR 101.
Training program in basic voice and articulation. Emphasis on critical listening, self-analysis and self-improvement in tone production and control, voice quality, articulation and pronunciation. Introduction to the International Phonetic Alphabet. This is not a class for persons with a a major speech or language delay or disorder. (A-F or CR/NC) One completion allowed. Lecture. (MJC Activities) Transfer: CSU, UC (CAN DRAM 6, CSU, UC, Fall)

RATV 131—INTRODUCTION TO RADIO PRODUCTION 3 Units
Formerly listed as "RATV 131 - Radio Control Room and Studio Production"
Theory and operation of broadcast audio control room and studio equipment. Basic planning and production techniques for radio programs, station promotions, commercial and public service announcements. Field trips may be required. Lecture/Laboratory. One completion allowed. (A-F or CR/NC) (MJC Activities) Transfer: CSU

RATV 132—ADVANCED RADIO PRODUCTION 1 4 Units
Prerequisite: RATV 131
Students operate a limited power radio station incorporating standard broadcast procedures and practices and exercising their skills in the production of commercials and public service announcements, promotional announcements, news, and remote broadcasts. Students may produce programs for community commercial stations. Field trips may be required. Two maximum completions. Lecture/Laboratory. Transfer: CSU

RATV 133—ADVANCED RADIO PRODUCTION 2 4 Units
Prerequisite: RATV 132
Continuation of RATV 132. Refinement of skills utilizing digital recording and equipment operation. Students will prepare an audition tape for entry level in the job market. Outside speakers from broadcast industry will be featured. Field trips may be required. Two maximum completions. Lecture/Laboratory. Transfer: CSU

RATV 134—TELEVISION STUDIO PRODUCTION 3 Units
Fundamental theory and operation of television control room and studio equipment including TV cameras, video switcher, audio equipment, basic studio lighting, and character generator. Electronic field production and editing will also be covered. Students will participate in group projects and fill the roles of talent, camera operators, technical directors, floor managers, video and audio technicians, as well as producers and directors. Field trips may be required. Lecture/Laboratory. Materials fee required. (MJC Activities) Transfer: CSU

RATV 135—ADVANCED TELEVISION PRODUCTION 1 3 Units
Recommended for Success: RATV 134, 142
Practical applications in single and multiple camera television production. Creative use of camera, sound, editing, and production planning. Students will produce, direct, and edit individual features that will be incorporated into a half hour television program. This class will provide expanded responsibilities in producing, directing, and operating video and audio equipment in remote and studio productions. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 136—ADVANCED TELEVISION PRODUCTION 2 3 Units
Recommended for Success: RATV 135, 142
Continuation of RATV 135. Development of leadership skills, directing techniques, and the producing process for the television industry. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 137—RADIO PROGRAMMING AND BROADCAST ANNOUNCING 3 Units
Formerly listed as: "RATV 137 - Radio and Television Announcing"
Recommended for Success: Computer/Internet literacy.
Performance for the electronic media. Includes announcing, newscasting, interview, and narration. Practical development of radio and television announcing skills through practice and evaluation. Maximum one completion. Field trips may be required. Lecture/Laboratory. Transfer: CSU

RATV 138—WRITING FOR RADIO AND TELEVISION 3 Units
Applied studies in the techniques of writing for radio and television, including the gathering and writing of news, commercials and public service announcements, radio features and short dramatic scripts. Includes interview techniques, storyboarding, and the presentation of newscasts. Lecture/Laboratory. Transfer: CSU

RATV 141 – TELEVISION-VIDEO DOCUMENTARY PRODUCTION 3 Units
Recommended for Success: Satisfactory completion of RATV 134 or FILM 150.
Technical and aesthetic elements of producing and directing a television documentary. This course will cover the process from conceptualization to postproduction. Exploration of historical, social, political, and personal concerns that are communicated through the television documentary. Students will participate in the production of a local documentary to be broadcast on cable television. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Not offered every semester. (MJC Activities) Transfer: CSU, A-F Only

RATV 142—LIGHT, SOUND, CAMERA AND EDITING WORKSHOP 3 Units
Recommended for Success: Satisfactory completion of FILM 150 and RATV 134.
Fundamental technical and aesthetic principles of lighting, Sound, editing, and camera operation. Creative applications are stressed to highlight mood or to produce an effect. Expanded knowledge in the areas of: preproduction planning, lighting and sound design, camera blocking and videotape editing. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

Continued...
RATV 150—INTRODUCTION TO MASS COMMUNICATION 3 Units
Exploration of the impact of the mass media on American society and culture, within a
global perspective, and the importance of being more conscious “consumers” of the mass
media. Explores the growing variety of career options. Topics include the origin, development
and contemporary structure of the print, electronic and digital media, including the Internet,
and how they shape the economic, political and social fabric of society; the impact of
technology; legal and ethical issues, and social issues including gender and cultural
diversity. Field trips may be required. Lecture. Transfer: CSU General Education: (MJC-GE: C)

READ (Reading)

READ 21—VOCABULARY DEVELOPMENT 3 Units
Non-degree course.
Course is designed to improve the vocabulary of students who are functioning at the
pre-collegiate level. Three maximum completions. Lecture. (A-F Only)

READ 40—READING COMPREHENSION 3 Units
Non-degree course.
Designed to improve the student’s comprehension of pre-collegiate reading materials.
Appropriate for students who score below the 10th percentile on the MJC Reading Assessment.
Three maximum completions. Lecture. (A-F Only)

READ 45—ELEMENTS OF READING 1 Unit
Non-degree course
A computer-based and workshop-based course for students who want to review elements
of reading. Offered in the Center for Learning Assistance. Orientation required. Open-
entry/Open-exit. (CR/NC Only)

READ 62—COLLEGE VOCABULARY 3 Units
Development of college level vocabulary. Use of context clues and structural analysis
emphasized. Lecture. (A-F Only)

READ 82—COLLEGE READING - COMPREHENSION 3 Units
Recommended for Success: A minimum of 10th percentile on the reading
assessment or READ 40 with a C or better.
Course is designed to improve student’s comprehension and retention of college level
materials. Lecture. Maximum one completion. (A-F Only)

READ 184—CRITICAL READING 3 Units
Recommended for Success: Satisfactory completion of READ 82 or
recommendation of the reading assessment.
Reading for inferred ideas, evaluation of ideas, tone, mood, and style. Discussion of
application of reader’s knowledge to reading material. This course with a grade of "C" or
better meets MJC reading proficiency requirements. Lecture. (A-F Only) Transfer: CSU

RLES (Real Estate)

RLES 380—REAL ESTATE PRINCIPLES 3 Units
Real estate principles and laws in California, including contracts, deeds, land titles, liens,
escrows, leases, financing, land descriptions, mandatory disclosures, terminology, ethics,
fair housing and licensing. Field trips may be required. Lecture. Transfer: (CC RLEST 1)

RLES 381—REAL ESTATE PRACTICES 3 Units
Prerequisite: Satisfactory completion of RLES 380
Practices and techniques of broker and salesperson including listing, prospecting,
advertising, disclosures, selling, escrow procedures, financing, exchanges, property
management and leases, land utilization and development, public relations and
professional ethics, and fair housing in real estate business. Field trips may be required.
Lecture. Transfer: (CC RLEST 5)

RLES 382—LEGAL ASPECTS OF REAL ESTATE 1 3 Units
Prerequisite: Satisfactory completion of RLES 381
California real property laws including the principle legal aspects of ownership, acquisition
and transfer of real property, legal descriptions, contracts, escrow procedures, forms of
trust and foreclosure, liens and restrictions, legal instruments. Lecture. Not offered every
semester. Transfer: (CC RLEST 10)

RLES 384—REAL ESTATE FINANCE 3 Units
Prerequisite: Satisfactory completion of RLES 380 or 381.
Lending regulations, policies and procedures applicable to financing residential, multi-
family, commercial and special purpose properties. Special attention to the money market,
Sources of funds and FHA and VA loans as factors in property financing. Lecture. Not
offered every semester.

RLES 385—REAL ESTATE APPRAISAL, RESIDENTIAL 3 Units
Prerequisite: Satisfactory completion of RLES 380
Examination of appraisal process to determine property value on cost, sales comparison,
and income basis. Consideration of neighborhood and site analysis, residential style
and functional utility, three approaches to value, reconciliation of value indicators, and Uniform
Standards of Professional Practice. Field trips may be required. Lecture.

RLES 392—BASIC ESCROW PROCEDURES 3 Units
Prerequisite: Satisfactory completion of RLES 380 or 381.
Basic escrow elements and practices. Terms, phraseology, and documents. Preparation
of instructions and statements and their use; legal descriptions; vesting of title,
balancing, debits and credits, loan payoffs and dispensing funds. Lecture. Not offered
every semester.

REC (Recreation)

REC 110—SOCIAL RECREATION LEADERSHIP 2 Units
Also offered as CLDY 110.
Introduction to and application of recreation and leisure leadership techniques in group
situations including social recreation. Field trips may be required. Lecture. Not offered
every semester. Transfer: CSU (CAN REC 4)

RSCR (Respiratory Care)

RSCR 220—INTRODUCTION TO RESPIRATORY CARE PRINCIPLES 5 Units
Prerequisite: Satisfactory completion of CHEM 143 with a grade of "C" or
Covers basic physical principles necessary for the practice of respiratory care to include the
following: medical terminology, fundamentals of general bedside patient care skills,
underlying physical principles of respiratory care equipment, indications for the use of
oxygen and aerosol therapy and related equipment. Field trips may be required. Lecture/
Laboratory. Materials fee required. (A-F Only) (Spring) Transfer: CSU

Continued
RSCR 222—BASIC CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Units
Prerequisites: Satisfactory completion of AP 150 or (ANAT 125 and PHYS 101.) Formerly listed as RSCR 202. Structure and functions of the pulmonary and cardiovascular systems. Application of laws of gas and fluid physics to the cardiopulmonary system. Field trips may be required. Lecture. (A-F Only) (Fall) Transfer: CSU

RSCR 224—RESPIRATORY CARE THEORY 2 5 Units
Prerequisites: Satisfactory completion of RSCR 220. Formerly listed as RSCR 203. Theoretical foundation for basic treatment modalities utilized in respiratory care. Topics covered include: hyper-inflation therapies, chest physical therapy, basic airway care and cardiopulmonary pharmacology. Associated equipment will be covered during scheduled labs. Field trips may be required. Lecture/Laboratory. Materials fee required. (Spring) (A-F Only) (Fall) Transfer: CSU

RSCR 230—CLINICAL 1 1 Unit
Concurrent Enrollment: RSCR 220 Formerly listed as RSCR 205. Clinical experience in oxygen therapy, aerosol-humidity therapy and other basic respiratory care modalities used in area hospitals. Two maximum completions. Field trips may be required. Laboratory. Materials fee required (items for infection control and/or malpractice liability insurance). (CR/NC Only) (Spring, Summer: for those students with AP 150 during Spring.) Transfer: CSU

RSCR 232—CLINICAL 2 3½ Units
Prerequisites: Satisfactory completion of RSCR 230. Concurrent Enrollment: RSCR 224 Formerly listed as RSCR 206. Clinical experience in the various routine respiratory care procedures and the equipment used in area hospitals. Attention is paid to the student performing critical evaluations of current therapy and the application of clinical practice guidelines. Field trips may be required. Two maximum completions. Laboratory. (Fall) (CR/NC Only) Transfer: CSU

RSCR 240—ADVANCED CARDIOPULMONARY PHYSIOLOGY AND DIAGNOSTICS 4½ Units
Prerequisites: Satisfactory completion of RSCR 222 and 224. Formerly listed as RSCR 211. Advanced cardiopulmonary physiology and diagnostics for the second year respiratory care student. Includes advanced arterial blood gas analysis, indices of oxygenation, chest x-ray interpretation, hemodynamic monitoring, laboratory testing, cardiology, and ECG interpretation with an emphasis on clinical setting application. Also includes discussion of various pathologies caused by cardiovascular conditions. Field trips may be required. Lecture. (A-F Only) (Spring) Transfer: CSU

RSCR 242—CRITICAL CARE PROCEDURES 4½ Units
Prerequisites: Satisfactory completion of RSCR 222, 224 and MICRO 101. Formerly listed as RSCR 212. Theory and application of critical care procedures for second year respiratory care students. This includes advanced theory and application of mechanical ventilators, associated pathophysiology and pharmacology, microbiological issues in respiratory care; application of ECG interpretation and chest x-ray interpretation. Field trips may be required. Lecture/Laboratory. (Spring) (A-F Only) Transfer: CSU

RSCR 244—NEONATAL-PEDIATRIC RESPIRATORY CARE 2 Units
Prerequisites: Satisfactory completion of RSCR 240 and 242. Formerly listed as RSCR 214. Introduction to respiratory care in the neonatal patient. Topics include fetal and neonatal development, resuscitation, pathophysiology, and neonatal and pediatric respiratory care procedures. Also open to those holding valid Respiratory Care Practitioner or Registered Nurse license. Field trips may be required. Lecture. (Summer) (A-F Only) Transfer: CSU

RSCR 246—CURRENT ISSUES IN RESPIRATORY CARE 3 Units
Prerequisites: Satisfactory completion of RSCR 240 and 242. Formerly listed as RSCR 215. Specially areas in Respiratory Care: home care, skilled nursing facility care, management and administrative issues, pulmonary rehabilitation and education, metabolic studies, nutrition, sleep studies, assisting physicians in procedures, and blood gas analysis. Course also includes a comprehensive review to prepare students for state and national examination. Field trips may be required. Lecture. (A-F Only) (Fall) Transfer: CSU

RSCR 248—SELF-DIRECTED STUDY ½ Unit
Prerequisites: Satisfactory completion of RSCR 242. Formerly listed as RSCR 218. Preparation for therapist level clinical simulation exam. Students spend 1.5 hours per week on a self-directed basis completing computerized clinical teaching and testing simulations. Also open to those possessing a valid RCP license. Three maximum completions. Laboratory. Materials fee required. (CR/NC Only) (Spring) Transfer: CSU

RSCR 250—CLINICAL 3 3½ Units
Prerequisites: Satisfactory completion of RSCR 232. Concurrent Enrollment: RSCR 240 and 242. Formerly listed as RSCR 213. Clinical experience in the various critical care respiratory procedures and the equipment used for these procedures in various area hospitals. Field trips may be required. Two maximum completions. Laboratory. Materials fee required. (CR/NC Only) (Spring) Transfer: CSU

RSCR 251—NEONATAL AND PEDIATRIC CLINICAL PRACTICE 1 ½ Unit
Prerequisites: Satisfactory completion of RSCR 242 Concurrent Enrollment: RSCR 244 Introduction to respiratory care clinical practice in perinatal, neonatal and pediatric care. Field trips may be required. Laboratory. (Summer) (CR/NC Only) Transfer: CSU

RSCR 252—PHYSICIAN ROUNDS FOR RESPIRATORY CARE ½ Unit
Concurrent Enrollment: RSCR 244 and 246. Formerly listed as RSCR 210. Opportunity for interaction between physicians and respiratory care students to determine the appropriateness of a respiratory care plan, includes use of computer instruction in formulating adequate care plans and use of respiratory care protocols. Laboratory. (CR/NC Only) (Fall) Transfer: CSU

RSCR 253—NEONATAL AND PEDIATRIC CLINICAL PRACTICE 2 ½ Unit
Prerequisites: Satisfactory completion of RSCR 242 Concurrent Enrollment: RSCR 246 Formerly listed as RSCR 254. Additional respiratory care clinical practice in perinatal, neonatal and pediatric care. Field trips may be required. Laboratory. (Summer) (CR/NC Only) Transfer: CSU

RSCR 255—CLINICAL 4 4½ Units
Prerequisites: Satisfactory completion of RSCR 244 Concurrent Enrollment: RSCR 246 Formerly listed as RSCR 254. Continued clinical experience in critical care units and introduction to clinical care in the neonatal intensive care unit as well as alternative site respiratory care. Field trips may be required. Laboratory. Materials fee required (items for malpractice liability insurance). (Fall) (CR/NC Only) Transfer: CSU

RSCR 257—CLINICAL PRECEPTORSHIP 2½ Units
Prerequisites: Satisfactory completion of RSCR 244 Concurrent Enrollment: RSCR 246 Formerly listed as RSCR 256. Four week clinical preceptorship in which student must demonstrate proficiency in all areas of clinical respiratory care practice. Field trips may be required. Laboratory. (CR/NC Only) (Fall) Transfer: CSU

Continued Ò

COURSES OFFERED AT MJC 235
SCI (Science)

SCI 201 – CONCEPTS OF EARTH SCIENCE 2 Units
An introduction to the fundamental concepts of Earth science and astronomy. Designed to provide a general knowledge of rock formation, plate tectonics, mountain building, erosion, water cycles, weather, and the solar system. Field trips may be required. Materials fee may be required. Lecture/Discussion. Not offered every semester. Transfer: CSU

SCI 202—CONCEPTS OF LIFE SCIENCE 2 Units
An introduction to the fundamental concepts of Life Science. Designed to provide a general knowledge of the structure and function of living things, ecological principles, and the scientific method. Lecture/Discussion. Field trips may be required. Transfer: CSU

SCI 203—CONCEPTS OF PHYSICAL SCIENCE 2 Units
An introduction to the fundamental concepts of Physical Science. Designed to provide a general knowledge of electricity, magnetism, thermal energy, and the structure and classification of matter. Lecture/Discussion. Field trips may be required. Transfer: CSU

SCI 310A,B,C,D—WORK EXPERIENCE 1, 2, 3, 4 Units
NATURAL HISTORY AND SCIENCE – SUPERVISED PRACTICE
Prerequisite: Enrollment in a minimum of 6 units, which may include Cooperative Vocational Work Experience and previous completion or concurrent enrollment in a total of 6 units of science courses.
Designed for science majors who wish to combine classroom experience with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Work must directly relate to the student’s area of study. Maximum of 4 units may be earned per semester. May be repeated to a maximum of 16 units Work Experience credit. (Cooperative General Work Experience is included in this maximum.) Also offered during May, June and July. Field trips may be required. Lecture.

SIGN (Sign Language)

SIGN 125—ASL: BEGINNING COMMUNICATION WITH THE DEAF 3 Units
Introduction to the American Manual Alphabet and American Sign Language, designed to provide basic conversational skill in the language used among most deaf people in the United States. Equivalent to the first two years of high school ASL. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2)

SIGN 126—ASL: INTERMEDIATE COMMUNICATION WITH THE DEAF 3 Units
Prerequisite: SIGN 125 or two years of high school ASL

SIGN 127—ASL: ADVANCED COMMUNICATION WITH THE DEAF 3 Units
Prerequisite: SIGN 126 or equivalent.
Use of the American Manual Alphabet and American Sign Language for those who would like to interpret for the deaf or for those who are or plan to become professional workers with the deaf. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

SM (Sheet Metal)

The Vocational Sheet Metal courses teach layout, measurement, forming, and installation as well as the mathematics required for sheet metal fabrication. Curriculum is developed and closely monitored in consultation with local air conditioning and heating contractors.

SM 331—VOCATIONAL SHEET METAL AND INSTALLATION 1 3 Units
Formerly listed as SM 31.
Tools and machinery used by sheet metal trades. Training in the procedures using patterns, cutting, making seams and riveting metals. Safety in sheet metal shop. Basic mathematical application. Opportunities in the trade. Field trips may be required. Lecture. (A-F Only)

SM 332—VOCATIONAL SHEET METAL AND INSTALLATION 2 3 Units
Prerequisite: Satisfactory completion of SM 331
Formerly listed as SM 32.
Techniques perfected in turning, burning, raising, forming, crimping, and beading: short method of pattern development. Parallel line and radial line development. Linear and geometric measure. Field trips may be required. (A-F Only)

SM 333—VOCATIONAL SHEET METAL AND INSTALLATION 3 3 Units
Prerequisite: Satisfactory completion of SM 332
Formerly listed as SM 33.

SM 334—VOCATIONAL SHEET METAL AND INSTALLATION 4 3 Units
Prerequisite: Satisfactory completion of SM 333
Formerly listed as SM 34.

SM 335—VOCATIONAL SHEET METAL AND INSTALLATION 5 3 Units
Prerequisite: Satisfactory completion of SM 334
Formerly listed as SM 35.
Sheet metal pattern development and pattern drafting. Continued study of mathematics for sheet metal fabrication. Field trips may be required. Lecture. (A-F Only)

SM 336—VOCATIONAL SHEET METAL AND INSTALLATION 6 3 Units
Prerequisite: Satisfactory completion of SM 335
Formerly listed as SM 36.
Continuation of mathematics for sheet metal fabrication, pattern development and pattern drafting. Field trips may be required. Lecture. (A-F Only)

SM 337—VOCATIONAL SHEET METAL AND INSTALLATION 7 3 Units
Prerequisite: Satisfactory completion of SM 336
Formerly listed as SM 37.
Advanced study of mathematics for sheet metal fabrication, sheet metal pattern development and pattern drafting. Field trips may be required. Lecture. (A-F Only)

SM 338—VOCATIONAL SHEET METAL AND INSTALLATION 8 3 Units
Prerequisite: Satisfactory completion of SM 337
Formerly listed as SM 38.
Advanced training in conjunction with the manipulation skills acquired in daily work, to develop well qualified sheet metal workers. Field trips may be required. Lecture. (A-F Only)

Continued...
SOPIO (Sociology)

SOPIO 101—INTRODUCTION TO SOCIOLOGY 3 Units
The study of human social interaction, groups and societies with emphasis upon culture, social differences, institutions and change. Field trips may be required. Lecture. Transfer: CSU, UC (CAN SOC 2, CSU, UC) (CC SOCIO 1) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4)

SOPIO 102—SOCIAL PROBLEMS IN THE UNITED STATES 3 Units
The study of contemporary social problems within the American society emphasizing, among other topics, alcohol and drugs, crime and violence, family problems, power, race, and gender inequalities. Construction of possible solutions to social problems will also be discussed. Field trips may be required. Lecture. Transfer: CSU, UC (CAN SOC 4) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4)

SOPIO 125—SOCIOLOGY OF THE FAMILY 3 Units
Comparative and historical treatment of the family. Analysis of kinship and family structure, roles and relationships within the family. Assessment of contemporary society on the family in America. Lecture. Transfer: CSU, UC (CC SOCIO 12) General Education: (MJC-GE: D0) (IGETC: 4)

SOPIO 131—SOCIOLOGY OF MEDICINE: CROSS-CULTURAL PERSPECTIVES 3 Units
The experiences of caregivers and patients from several ethnic minority groups (Hispanic, African American and Southeast Asian) provide access to an understanding of some of the meanings and traditions of health in the U.S. Definitions of health and strategies of healing as well as the distribution of illness in our stratified, multicultural society are examined. The influence of Western biomedicine, its network of roles and relationships and the effects of economics and bioethics on health care delivery are evaluated. Field trips may be required. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: B)

SOPIO 150—ETHNICITY AND CULTURE IN AMERICA 3 Units
A multidisciplinary study of ethnic and racial groups in the United States including Asian-Americans, African-Americans, Hispanics, among others. Emphasizes emergence, change, marginality, and integration of major ethnic groups in the United States. Field trips may be required. Lecture. Transfer: CSU, UC (CC SOCIO 5) General Education: (MJC-GE: B) (CSU-GE: D0, D.3) (IGETC: 4)

SOPIO 154—AFRICAN-AMERICAN CULTURES AND COMMUNITIES 3 Units
A sociological exploration of the social and historical forces shaping contemporary African-American experiences and their multiple statuses in American society. Effects of stratification, conflict and change as well as the historical and current roles of the family within dynamic communities are emphasized. Lecture. One completion allowed. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D0, D.3) (IGETC: 4)

SOPIO 156—MEXICAN CULTURE IN THE UNITED STATES 3 Units
Contemporary Mexican-American Culture, problems and contributions, origins and nature, Intergroup contacts and conflicts. Field projects concern Mexican-American assimilation within the region. Lecture. Once completion allowed. Transfer: CSU, UC General Education: (MJC-GE: B) (CSU-GE: D0, D.3) (IGETC: 4)

SOPIO 105—WOMEN’S STUDIES 3 Units
Recommended for Success: ENGL 101; INDIS 55 or 105
A multidisciplinary introduction to the origins, purpose, subject matter, and methods of feminist theory in the social sciences. This course explores political, economic, social, cultural and historical issues from a feminist perspective. The focus is on classic feminist texts: how they have changed gender roles in society, how feminism politics have evolved, and how they have shaped contemporary world views. Lecture. Transfer: CSU, UC. General Education: (MJC-GE: B, C) (CSU-GE: D4) (IGETC: 4)

SOPIO 109—INTRODUCTION TO EDUCATION - PRACTICUM IN TUTORING 2 Units
Orientation to the teaching profession. Designed for prospective elementary, secondary or college teachers but open to all. Students are required to observe and tutor in an appropriate educational setting. Partially meets field experience requirement for teaching credential program at CSU Stanislaus. Fingerprint clearance and TB clearance is required. Lecture. Transfer: CSU (CC INDIS 10)

SOPIO 110—INTRODUCTION TO EDUCATION 3 Units
Orientation to the teaching profession. Designed for prospective elementary, secondary or college teachers but open to all students. Students are required to observe and participate in community classrooms. Meets field experience requirements for teaching credential program. Fingerprint clearance and TB clearance is required. Lecture. Transfer: CSU, UC (CC INDIS 12) General Education: (MJC-GE: B)

SOPIO 120A, 120B, 120C—COMPUTER APPLICATIONS IN THE SOCIAL SCIENCES 1, 2, 3 Units
Application of computers to social sciences activities. Writing, research, data collection, simulations, survey and laboratory research. Field trips may be required. May be repeated to six units maximum. Lecture or Laboratory. Transfer: CSU

SOPIO 154—MOVIES WITH A MESSAGE: SOCIAL TOPICS IN FILM 3 Units
Also offered as FILM 154.
A thematic film course aimed at using the medium of film to broaden the awareness of current societal and global issues, focusing on different topics semester to semester. Selected sequences of feature films, documentaries, unusual foreign and domestic releases will explore how filmmakers depict aspects of history, culture, religion, race, gender, class, ideology and other issues in a global perspective. Course will cover related elements of film style and theory, such as the relationship of subject to style, form and function. Field trips may be required. Lecture. Transfer: CSU, UC

SPAN (Spanish)

SPAN 45, A, B, C—PRACTICAL SPANISH FOR THE PROFESSIONS ⅔, 1, 2, 3 Units
Non-degree course.
Conversational Spanish for people working with the Spanish-speaking in the following areas: health, education, law enforcement, social work, agriculture, construction, public safety, and business. Occupational topics vary from semester to semester. May be repeated for credit as topic changes. Field trips may be required. Lecture. Multiple completions not to exceed 9 units in any combination.

SPAN 51—INTRODUCTORY SPANISH 1 3 Units
Formerly listed as "SPAN 51 - Introduction to Practical Spanish"
Slow-paced, non-transferable course designed for people who have never studied a foreign language, especially Spanish. Basic Spanish grammar and pronunciation. Field trips may be required. Lecture/Laboratory. Transfer: (CC SPAN 10A) General Education (MJC-GE: C)

SPAN 52—INTRODUCTORY SPANISH 2 3 Units
Formerly listed as "SPAN 52 - Introduction to Practical Spanish 2"
Prerequisite: Satisfactory completion of SPAN 51 or equivalent introductory course. Slow-paced, non-transferable course designed for people who wish to continue SPAN 51. Basic Spanish grammar and pronunciation. Field trips may be required. Lecture/ Laboratory. One completion allowed. General Education: (MJC-GE: C)
SPCOM (Speech Communication)

The Speech Communication Program at Modesto Junior College offers students a variety of courses which incorporate both theory and performance instruction. These include public speaking, argumentation and debate, organizational communication, intercultural and interpersonal communication, contest speaking and forensics competition which includes debate and individual events. The MJC Forensics Team has captured a number of state and national championships. The program also offers courses in practical speech communication and voice improvement. Most courses are available to students in both day and evening hours.

SPCOM 100—FUNDAMENTALS OF PUBLIC SPEAKING 3 Units

SPCOM 101—BASIC VOICE AND ARTICULATION 3 Units
Formerly listed as “Basic Voice Improvement” Also offered as RATV 101 and THETR 101. Training program in basic voice and articulation. Emphasis on critical listening, self-analysis and self-improvement in tone production and control, voice quality, articulation and pronunciation. Introduction to the International Phonetic Alphabet. This is not a class for persons with a major speech or language delay or disorder. (A-F or CR/NC) One completion allowed. Lecture. (MJC Activities) Transfer: CSU, UC (CAN DRAM 6, CSU, UC, Fall)

SPCOM 102—INTRODUCTION TO HUMAN COMMUNICATION 3 Units
Study of human communication including verbal, nonverbal and listening skills. Focus on effective oral participation in informal encounters, group discussion, and individual presentations in public settings. Field trip required. Lecture/Laboratory. Transfer: CSU, UC (CC SPCOM 4) General Education: (MJC-GE: D2) (CSU-GE: A1) (IGETC: 1C)

SPCOM 103—INTERPERSONAL COMMUNICATION 3 Units
The study of interpersonal communication including perceptual, verbal and nonverbal elements. The course focuses on the concepts and skills regarding interpersonal relationships as applied to various interaction, such as the male/female relationship, the family, the workplace. Lecture. (Spring) Transfer: CSU, UC (CAN SPCH 8)

SPCOM 104—ARGUMENTATION 3 Units
Prerequisite: ENGL 101 Primary emphasis on argumentation as the study of analysis, evidence, reasoning, refutation and rebuttal, etc., in oral and written communication. Significant component of instruction in written argumentation, with special attention to the essay form. “Critical Thinking” approaches to commercial, legal, political, and academic argumentation and persuasion. Field trips may be required. Lecture. Transfer: CSU, UC (CAN SPCH 6) (CC SPCOM 2) General Education: (MJC-GE: D2) (CSU-GE: A3) (IGETC: 1B)

SPCOM 105—FORENSICS WORKSHOP 2 Units
Recommended for Success: Satisfactory completion of SPCOM 100 or 102. Principles of applied speech communication through participation in competitive speech performances. Students will participate in intercollegiate forensics. Competitive events include debate, individual speaking and interpretive performances. Four maximum completions. Field trips required. Lecture/Laboratory. (MJC Activities) Transfer: CSU
SPCOM 106—ORGANIZATIONAL COMMUNICATION 3 Units
Formerly listed as "SPCOM 106 - Group & Organizational Communication". Also offered as SUPR 106.
Communication within and between groups and organizations while enhancing relevant individual communication skills. Emphasis on communication and organizational theory as basis for focus on such communication processes as interviewing, task-oriented discussion, problem solving, leadership, conflict resolution and negotiation, communication climate, and organizational culture. One completion required. (A-F or CR/NC) Lecture. Transfer: CSU (CAN SPCH 10) General Education: (MJC-GE: D2)

SPCOM 107—INTRODUCTION TO DEBATE 3 Units
Argumentation principles and the debate format. Emphasis on case construction, methods of attack and defense, communication strategies, and various forms of debate. Field trips required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-GE: A3)

SPCOM 109—COMMUNICATION AND LEADERSHIP SKILLS FOR WOMEN IN MANAGEMENT 3 Units
Communication and leadership skills for effective business management in the workplace. Designed to study the women's movement into management positions. Emphasis on common strategies, supervising employees, interpersonal skills, motivational methods, assertiveness and decision-making. Lecture. (Spring) Transfer: CSU

SPCOM 110—PERSUASION 3 Units
Development of abilities to plan and deliver persuasive presentations through a combination of methods involving the study of "real" communicative events; i.e., trials, sales presentations, political campaigns, sermons, etc., and the preparation and presentation of own works. Survey of recent research in attitude change and persuasive communication. Field trips may be required. Lecture. (MJC Activities) Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-GE: A1)

SPCOM 120—ORAL READING AND INTERPRETATION 3 Units
Also offered as THETR 120.
Skills in oral interpretation of literature; choice of material, involvement with material; communication of author’s thought, emotion and language; expanded knowledge of literature and literary forms. Credit given for either THETR 120 or SPCOM 120, but not both. Lecture/Laboratory. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

SPCOM 122—INTRODUCTION TO READERS’ THEATRE 3 Units
Also offered as THETR 122.
Study of oral interpretation principles as they apply to group and choral reading. Emphasis will be placed upon the preparation and performance of Readers’ Theatre productions. Students will be provided with the necessary theory, practice, and criticism to develop skills for organization and oral presentation of Reader’s Theatre materials. Lecture. Field trips may be required. (MJC Activities) Transfer: CSU, UC General Education: (CSU-GE: C1)

SPCOM 123—STORYTELLING 3 Units
Formerly listed as "SPCOM 123 -Storytelling: The Interpretation Of Children’s Literature."
Also offered as THETR 123.
Introduction to the history of storytelling and the techniques of critical listening, preparation and presentation of literature. Emphasis on sources, selection of materials, analysis, preparation and presentation of prose, verse, and drama. Designed to develop the adult reader’s knowledge, critical ability, and appreciation of literature. Field trips may be required. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU General Education: (CSU-GE: C1)

SPCOM 124—ADVANCED READERS’ THEATRE 3 Units
Recommended for Success: Satisfactory completion of (SPCOM 120 or 122) or (THETR 120 or 122.) Also offered as THETR 124.
Continued development of vocal control and expression, emphasis on analysis of reading materials and oral communication of thought and emotion. Emphasis on construction and direction of Readers’ Theatre performances suitable for public presentation. Field trips may be required. Lecture. Materials fees may be required to cover cost of course materials and theatre tickets. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

SPCOM 130—INTERCULTURAL COMMUNICATION 3 Units
Examines the influence of culture on human communication. Students will learn skills to communicate effectively with people from different cultures. Theoretical and practical models are explored. Emphasis on cultural identity, relationships, stereotyping, prejudice, nonverbal and verbal cues, values, beliefs, and norms. Field trips may be required. Lecture. (A-F or CR/NC) Transfer: CSU, UC General Education: (MJC-GE: D2) (CSU-GE: D3 OR D7) (IGETC: 4)

SPCOM 145—PARLIAMENTARY PROCEDURE 1 Unit
Also offered as AGGE 145.
Introduction to Parliamentary Procedure. Preparing for and participating in meetings as a member, officer, and chairperson. Rank and use of motions. Two maximum completions. Lecture/Other. (CR/NC Only) Transfer: CSU

SPELL (Spelling)

SPELL 31—SPELLING: CONSONANT SOUNDS AND SYMBOLS 3 Units
Non-degree course.
Designed for non-native speakers to improve reading and spelling. Sound-symbol relationships in English with emphasis on consonants and consonant clusters. Discrimination between words which are similar in either spelling or sound. Help with spelling and with pronunciation of words encountered in reading. Two maximum completions. Lecture. (A-F Only)

SPELL 32—SPELLING AND PRONUNCIATION 3 Units
Recommended for success: Concurrent enrollment in ENGL 49 or ENGL 50.
Non-degree course.
Course is designed to improve spelling and pronunciation habits by introducing and using the phonetic patterns of English. Two maximum completions not to exceed 6 units. Lecture. (A-F Only)

STSK (Study Skills)

STSK 25—STUDENT SUCCESS STRATEGIES 1 Unit
Designed to increase the student's success in college and to facilitate the transition to the workplace. Practical emphasis on goal setting, time management, study skills and interpersonal communication. This class does not meet guidance requirements for graduation. Lecture.

STSK 70—MIND OVER MATH 1 Unit
Prerequisite: Eligibility for MATH 20 or MATH 70.
Designed for students who experience math anxiety and math avoidance. This course explores the fear of math including common causes, symptoms, past experiences, math myths, and negative thinking that contribute to math anxiety. Students will learn techniques to reduce their anxiety, learn practical math tips and study methods, learn about college resources available to help math students, develop strategies to more effectively learn math, and develop a more positive attitude about math and about their own abilities to do well in math. Lecture. (CR/NC Only)

STSK 78—COLLEGE STUDY SKILLS 3 Units
Recommended for Success: ENGL 50 and READ 82 eligibility
Introduces students to educational, psychological and social factors necessary for college success. Topics include: goal setting, time management, note-taking, textbook reading, test-taking skills, memorization, concentration, motivation, writing and speaking, critical and creative thinking, learning styles, use of technology, diversity, health relationships, finances, educational planning, and career development. Acquaints students with the college, its curriculum, facilities, services, regulations, programs, degree and transfer requirements. Lecture. (MJC Guidance) (A-F Only)
STSK 120—SUCCESS STRATEGIES FOR TRANSFER STUDENTS
3 Units
Recommended for Success: Eligibility for ENGL 101 and a reading score of 10 (35th percentile or higher).
Increases success in college by assisting students in obtaining skills and techniques necessary to reach their educational objectives. Topics include: educational planning, transfer strategies, motivation and learning styles, research strategies, note-taking, subject-specific study techniques, time management and textbook study methods. (A-F or CR/NC) One completion allowed. Lecture. (MJC Guidance) Transfer: CSU, UC

STSK 135—COLLEGE SUCCESS FOR SCIENCE MAJORS
½ Unit
Assists students in the study of scientific materials. Topics include reading and note-taking strategies, preparing for and taking exams in the sciences, and creating effective study groups. Lecture. (CR/NC Only) (Summer) Transfer: CSU

NON-CREDIT COURSES

STSK 850—SUPERVISED TUTORING
Prerequisite: Enrollment in related class and approval of Instructor/Counselor.
Provides for individual learning by students with expressed needs in study skills, learning modes, and developmental materials. Learning experiences will be under instructional supervision. Open entry/open exit. Four maximum completions. Laboratory.

SUPR
(Supervisory Management)

SUPR 106—ORGANIZATIONAL COMMUNICATION
3 Units
Formerly listed as “SUPR 106 - Group and Organizational Communication” Also offered as SPCOM 106.
Communication within and between groups and organizations while enhancing relevant individual communication skills. Emphasis on communication and organizational theory as basis for focus on such communication processes as interviewing, task-oriented discussion, problem solving, leadership, conflict resolution and negotiation, and communication climate, and organizational culture. Lecture. (Evening) Transfer: CSU

SUPR 351—ELEMENTS OF SUPERVISION
3 Units
Nature and function of supervisor’s role in business, industry and government. The skills and techniques of effective management will be examined and applied in terms of attaining maximum results through the cooperative efforts of others. Lecture.

SUPR 364—TOTAL QUALITY MANAGEMENT
3 Units
Recommended for Success: SUPR 351, BUSAD 240. Also offered as BUSAD 364.
This course provides an introduction to W. Edward Deming’s philosophy of Total Quality Management and its implications for improving the competitiveness of American business in the international economy. A variety of related management topics is also presented. Lecture.

RATV
(Television Production)

RATV 101—BASIC VOICE IMPROVEMENT
3 Units
Also offered as SPCOM 101 and THETR 101.
Training program in basic voice improvement. Emphasis on critical listening, self-analysis and self-improvement in tone production and control, voice quality, articulation and pronunciation. Introduction to the International Phonetic Alphabet. Credit given for only one of SPCOM 101, RATV 101, or THETR 101. This is not a class for persons with a major speech or language delay or disorder. Lecture. (Fall) Transfer: CSU, UC (CAN DRAM 6) (CC CAM 18)

RATV 134—TELEVISION STUDIO PRODUCTION
3 Units
Fundamental theory and operation of television control room and studio equipment including TV cameras, video switcher, audio equipment, basic studio lighting, and character generator. Electronic field production and editing will also be covered. Students will participate in group projects and fill the roles of talent, camera operators, technical directors, floor managers, video and audio technicians, as well as producers and directors. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 135—ADVANCED TELEVISION PRODUCTION 1
3 Units
Recommended for Success: Satisfactory completion of RATV 134 and 142.
Practical applications in single and multiple camera television production. Creative use of camera, sound, editing, and production planning. Students will produce, direct, and edit individual features that will be incorporated into a half hour television program. This class will provide expanded responsibilities in producing, directing, and operating video and audio equipment in remote and studio productions. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 136—ADVANCED TELEVISION PRODUCTION 2
3 Units
Recommended for Success: Satisfactory completion of RATV 135 and 142.
Continuation of RATV 135. Development of leadership skills, directing techniques, and the producing process for the television industry. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 137—RADIO AND TELEVISION ANNOUNCING
3 Units
Recommended for Success: Computer/Internet literacy. Performance for the electronic media. Includes announcing, newscasting, interview, and narration. Practical development of radio and television announcing skills through practice and evaluation. Field trips may be required. Lecture/Laboratory. Transfer: CSU

RATV 141—TELEVISION-VIDEO DOCUMENTARY PRODUCTION
3 Units
Recommended for Success: Satisfactory completion of RATV 134 or FILM 150.
Technical and aesthetic elements of producing and directing a television documentary. This course will cover the process from conceptualization to postproduction. Exploration of historical, social, political, and personal concerns that are communicated through the television documentary. Students will participate in the production of a local documentary to be broadcast on cable television. Field trips may be required. Two maximum completions. Lecture/Laboratory. Materials fee required. Not offered every semester. (A-F Only) Transfer: CSU

RATV 142—LIGHT, SOUND, CAMERA AND EDITING WORKSHOP
3 Units
Recommended for Success: Satisfactory completion of FILM 150 and RATV 134.
Fundamental technical and aesthetic principles of lighting, sound, editing, and camera operation. Creative applications are stressed to highlight mood or to produce an effect. Expanded knowledge in the areas of: preproduction planning, lighting and sound design, camera blocking and videotape editing. Field trips may be required. Lecture/Laboratory. Materials fee required. Transfer: CSU

RATV 150—INTRODUCTION TO MASS COMMUNICATION
3 Units
Exploration of the impact of the mass media on American society and culture, within a global perspective, and the importance of being more conscious “consumers” of the mass media. Explores the growing variety of career options. Topics include the origin, development and contemporary structure of the print, electronic and digital media, including the Internet, and how they shape the economic, political and social fabric of society; the impact of technology; legal and ethical issues, and social issues including gender and cultural diversity. Field trips may be required. Lecture. Transfer: CSU

Continued
THETR (Theatre)

THETR 100—INTRODUCTION TO THEATRE ARTS 3 Units
Investigation of process of collective art of theatre, the role of actor, director, playwright, designer, technician and audience. Survey of theatre origins, its development as an art form, and its social, political and cultural implications in history. Attendance at MJC theatre productions required; 25 hours required work on productions or a 10 page term paper. Field trips may be required. Materials fee may be required to cover cost of theatre tickets. Lecture. Transfer: CSU, UC (CAN DRAM 18) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

THETR 101—BASIC VOICE AND ARTICULATION 3 Units
Formerly listed as “Basic Voice Improvement.” Also offered as SPCM 101 and RATV 101.
Training program in basic voice and articulation. Emphasis on critical listening, self-analysis and self-improvement in tone production and control, voice quality, articulation and pronunciation. Introduction to the International Phonetic Alphabet. This is not a class for persons with a major speech or language delay or disorder. (A-F or CR/NC) One completion allowed. Lecture. (MJC Activities) Transfer: CSU, UC (CAN DRAM 6, CSU, UC, Fall)

THETR 102—WORLD THEATRE 3 Units
Survey of world theatre and its development as an art form through social, political and cultural contexts. Investigation of cultural traditions and styles, values, aesthetics will be explored. Field trips required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 120—ORAL READING AND INTERPRETATION 3 Units
Also offered as SPCM 120.
Skills in oral interpretation of literature; choice of material, involvement with material; communication of author’s thought, emotion and language; expanded knowledge of literature and literary forms. Credit given for either THETR 120 or SPCM 120, but not both. Lecture/Laboratory. Transfer: CSU General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 122—INTRODUCTION TO READERS’ THEATRE 3 Units
Also offered as SPCM 122.
Study of oral interpretation principles as they apply to group and choral reading. Emphasis will be placed upon the preparation and performance of Readers’ Theatre productions. Students will be provided with the necessary theory, practice, and criticism to develop skills for organization and oral presentation of Readers’ Theatre materials. Lecture. Field trips may be required. (MJC Activities) Transfer: CSU, UC General Education: (CSU-GE: C1)

THETR 123—STORYTELLING: THE INTERPRETATION OF CHILDREN’S LITERATURE 3 Units
Formerly listed as “SPCM 123 - Storytelling: The Interpretation Of Children’s Literature.” Also offered as SPCM 123.
Introduction to the history of storytelling and the techniques of critical listening to, preparation and presentation of literature. Emphasis on sources, selection of materials, analysis, preparation and presentation of prose, verse, and drama. Designed to develop the adult reader’s knowledge, critical ability, and appreciation of literature. Field trips may be required. Lecture. One completion allowed. (A-F or CR/NC) Transfer: CSU General Education: (CSU-GE: C1)

THETR 124—ADVANCED READERS’ THEATRE 3 Units
Recommended for Success: Satisfactory completion of (SPCM 120 or 122) or (THETR 120 or 122)
Also offered as SPCM 124.
Continued development of vocal control and expression, emphasis on analysis of reading materials and oral communication of thought and emotion. Emphasis on construction and direction of Readers/Theatre performances suitable for public presentation. Field trips may be required. Lecture. Materials fees may be required to cover cost of course materials and theatre tickets. Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 131—FUNDAMENTALS OF CHOREOGRAPHY 1 Unit
Introduction into the creative process involved in composing dance. The knowledge of compositional components will be explored, crafted, and aesthetically analyzed. Exploration of qualities and dynamics, performance qualities will be addressed through technique, improvisation, and compositional studies. Field trips required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC.

THETR 150—ELEMENTS OF PLAYWRITING 3 Units
Recommended for Success: Satisfactory completion of ENGL 101 and THETR 100. Introduction to the writing of dramatic scripts for the stage, culminating in a staged reading of completed drafts with actors before an audience. Field trips required. Two maximum completions. Lecture/Laboratory. Transfer: CSU General Education: (MJC-GE: C) (CSU-GE: C2)

THETR 160—FUNDAMENTALS OF ACTING 3 Units
Survey of the various elements of the actors art leading to an understanding and appreciation of the physical, mental, and emotional basis of performance. Reading plays, analysis of public performances, role analysis and fundamentals of scene playing are included. Required for Theatre Arts majors. Recommended for those who may wish to participate in play production. Lecture/Laboratory. Field trips may be required. (MJC Activities) Transfer: CSU, UC (CC DRAM 42, CAN DRAM 8) General Education: (CSU-GE: C1)

THETR 161—INTERMEDIATE ACTING 3 Units
Prerequisite: Satisfactory completion of THETR 160 or equivalent.
Intensive study of plays through group reading and analysis of theme, content, and character. Scenes from the plays under discussion will be rehearsed and performed with a final public performance culminating the experience. Includes preparation of dramatic material and actor psychology for auditions. Four maximum completions. Field trips may be required. Lecture/Other. (Spring) Transfer: CSU, UC (CAN DRAM 22) General Education: (CSU-GE: C1)

THETR 165—HISTORY OF THE AMERICAN MUSICAL THEATRE 3 Units
The art of the American musical theatre: the role of the performer, director, music director, book writer, composer, lyricist, choreographer, producer, designers, and audience. Survey of the origins of music theatre beginning with “The Black Crook” (1866) through the present, its development as an art form, and its relationship to other art forms and the audience. Attendance at musical theatre productions required. Lecture. Tickets fees are required. (CR/NC Only) Transfer: CSU, UC General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 175—STAGE COSTUMING 3 Units
Principles and practice of theatrical costume. Emphasis on the design of individual costumes and the coordination of an entire theatrical production. Field trips may be required. Lecture/Laboratory/Other. Not offered every semester. (MJC Activities) Transfer: CSU, UC

THETR 178—INTRODUCTION TO SCENERY DESIGN 3 Units
Recommended for Success: Satisfactory completion of THETR 100
Introduction to the art and practice of scenery design for the stage. The process of design, selection of proper materials, safety aspects of scenery, physical, and psychological considerations of designing scenery for the stage. Practical application will include assisting in the design and execution of scenery for an actual production. Field trips may be required. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC (CAN DRAM 12)

THETR 182—PRACTICAL STAGE LIGHTING 3 Units
Recommended for Success: Satisfactory completion of THETR 100
An introduction to the art and practice of lighting design for the stage. Lectures will include: the use and control of stage lighting instruments, choosing color, basic electricity, the physical and psychological properties of light as applied to stage illumination. Practical application in lab work will include assisting in the design of an actual production. Field trips may be required. Lecture/Laboratory. Not offered every semester. Transfer: CSU, UC (CAN DRAM 10)

THETR 183—FUNDAMENTALS OF STAGE MAKE-UP 1 Unit
Design and application of two-dimensional make-up for theater use. Lecture/ Laboratory. (MJC Activities) Transfer: CSU, UC (CAN DRAM 14)
THETR 184—FUNDAMENTALS OF STAGE MAKE-UP 2  1 Unit
Prerequisite: THETR 183
Creation and application of 3-D (dimensional) modeling and molding techniques in make-up for theatrical use. Lecture/Laboratory. Two maximum completions. Not offered every semester. Transfer: CSU, UC (CAN DRAM 14)

THETR 185—BEGINNING MODERN DANCE 1 Unit
Also offered as PEC 122.
Fundamental dance movement, elementary composition components. Dance movement education, exploration and recreation. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 186—INTERMEDIATE MODERN DANCE 1 Unit
Recommended for Success: Satisfactory completion of THETR 185 or PEC 122 or equivalent.
Also offered as PEC 123.
Introduction, exploration and experience in choreography and performance. Movement through space, energy and time and compositional form. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 187—ADVANCED MODERN DANCE 1 Unit
Recommended for Success: Satisfactory completion of THETR 186 or PEC 123 or equivalent.
Also offered as PEC 124.
Emphasis on composition, improvisation, expression, dance history and philosophy; an outlet for expressive movement ideas. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 188—JAZZ DANCE 1 Unit
Also offered as PEC 126.
Technique of Jazz Dance with explorations into contemporary derivations of jazz. Emphasis is given to technical style of this form, and to the interrelationship of music and movement. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 189—BALLET 1  1 Unit
Also offered as PEC 132.
Fundamental ballet techniques and terminology. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 190A,B—THEATRE PRODUCTION WORKSHOP 1,2 Units
Recommended for Success: Satisfactory completion of THETR 100
A repeatable, multi-technical course focusing on the practical aspect of mounting and running a theatrical production. The different areas of construction and run crews involved are: sets, sound, lighting, properties, stage management, publicity, and house management. Four maximum completions. Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 192—REHEARSAL & PERFORMANCE 2 Units
Recommended for Success: Satisfactory completion of THETR 100
Participation and instruction in rehearsal and performance of a role in an MJC production. Required activities may include all aspects involved in the production of plays as well as rehearsal. Field trips required. Four maximum completions. Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 194—INTRODUCTION TO WORLD DANCE 3 Units
Also offered as PE-194.
A survey of dance and its development as an art form through social, political and cultural context. Investigation of cultural traditions and styles, values, aesthetics and mores will be explored. Field trips required. Lecture. Transfer: CSU, UC General Education: (MJC-GE: E) (CSU-GE: C1) (IGETC: 3A)

THETR 195—MOVEMENT FOR THE PERFORMING ARTIST 3 Units
Introduction to the fundamentals of movement as applied to body awareness, motor efficiency, and basic compositional components. Exploration of qualities and dynamics in performance through technique, improvisation, and compositional studies. Field trips required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU, UC

THETR 196—THEATRE MANAGEMENT 1 Unit
Recommended for Success: Satisfactory completion of THETR 100
The principles of theatre management: front-of-house operations; box office management and theatre business procedures; publicity and public relations; budget and organization for school, community and professional theatre. Field trips may be required. Four maximum completions. Lecture/Laboratory. (MJC Activities) Transfer: CSU

THETR 197—BROADWAY/EUROPE THEATRE TRAVEL 1 Unit
Preparation and participation in theatre related trips to New York City and Europe. The trips include theatre performances, backstage tours of theatre facilities, workshop sessions with performers, directors, writers, critics and scholars. Program also includes tours of fine art exhibits, museums and other cultural events. Field trips are required. Four maximum completions. Lecture/Laboratory. Participation fees are paid to travel agencies approved by Yosemite Community College District. Cost for each trip varies. (Spring) (MJC Activities) Transfer: CSU
VOCWE
(Work Experience, Vocational)

Modesto Junior College serves the needs of its students and those of the community through its Work Experience program. A program objective is to provide guidance and opportunity for career planning students in the real laboratory of the communities’ businesses, industries and public agencies. Work experience education results when it encompasses a systematic plan whereby students, while in college, gain realistic employment experiences through work.

Two Work Experience programs are offered: General Work Experience and Vocational Work Experience. Employment may be on a paid or volunteer basis and may be at work sites on or off campus. For General Work Experience, please see WKEX (Work Experience, General).

Designed to provide extended learning opportunities in students’ chosen occupational fields, Vocational Work Experience programs become practical laboratories for reinforcing in-school training. Students should consult their advisors to determine divisional practice on work experience units acceptable toward major requirements.

Vocational work experience classes are available in all discipline areas using the number 349 A,B,C,D (1-4 units) except Nursing (see Nursing Program). With the exception of Administration of Justice, Agriculture, Child Development and Nursing, Vocational Work Experience students must register for and attend VOCWE 349S. During the first lecture meeting, the instructor will assist the student in adding to his or her schedule the appropriate Vocational Work Experience class depending on the student’s academic goals and employment setting.

VOCWE 349S—VOCATIONAL WORK EXCHANGE SEMINAR 0 Units
Designed to accompany vocational work experience courses in all discipline areas (with the exception of Administration of Justice, Agriculture, Child Development and Nursing). Provides an orientation to the structure of cooperative work experience education and develops specific knowledge and skills related to employment situations through the accomplishment of goals. Includes job applications, resumes, interpersonal relationships, career selection, and relevant employment laws, regulations and policies. Lecture. Non graded. Maximum completions as needed to accompany DIV 349 A,B,C, or D.

DIV 349 A,B,C,D—WORK EXPERIENCE 1,2,3,4 Units
Prerequisite: Enrollment in a minimum of 7 units which may include Cooperative Work Experience and completion of or concurrent enrollment in one core or elective course in designated program.

Designed for students who wish to combine classroom experience with an expansion of skills or knowledge acquired at a site of employment on a paid or volunteer basis. Work must directly relate to the student’s area of study. Conversely, student should have a designated area of study demonstrated by completion of or concurrent enrollment in at least a minimal number of courses in that designated program. Sixteen maximum units in any combination of vocational work experience courses. Lecture. Lab. 75 paid hours or sixty unpaid hours of related work experience per semester equals 1 unit.

WELD 200—ARC & GAS WELDING 3 Units
Introduction and basic instruction in theory and techniques in oxyacetylene welding and cutting and shielded metal arc welding. Safety and machine operation in the welding shop will be presented in lecture as well as “hands on” laboratory experiences. Field trips may be required. Welding rod required. Lecture/Laboratory. Transfer: CSU, A-F Only.

WELD 204—GAS METAL ARC (MIG) AND FLUX CORE ARC WELDING (FCAW) 3 Units
Prerequisite: WELD 200
Formerly listed as WELD 202.
Welding stainless steel, aluminum, and ferrous metals using the Metallic Inert Gas (MIG)/ Flux Core Arc Welding (FCAW) processes. Qualification procedures for the American Welding Society (A.W.S.) D1-1 certification for mild steel and aluminum. Field trips may be required. Lecture/Laboratory. Welding rod required. Transfer: CSU.

WELD 206—GAS TUNGSTEN ARC WELDING (TIG) 3 Units
Prerequisite: WELD 200
Formerly listed as WELD 202.
Advanced arc welding procedures for stainless steel, aluminum, and ferrous metals utilizing the gas tungsten arc welding (TIG) process. The American Society of Mechanical Engineers (A.S.M.E.) certification qualification procedure. Field trips may be required. Lecture/Laboratory. Welding rod required. Transfer: CSU.

WELD 300—INTERMEDIATE WELDING 3 Units
Prerequisite: WELD 200
Intermediate level instruction in the application of S.M.A.W. (Shielded Metallic Arc Welding) and oxy-fuel cutting equipment, testing procedures and tolerances to meet A.W.S. (American Welding Society) and A.S.M.E. (American Society of Mechanical Engineers) codes. Course provides additional skill building preparatory to certification coursework. Field trips required. Welding rod required. Lecture/Laboratory.

WELD 325—DESIGN AND FABRICATION PROCESSES 3 Units
Prerequisite: WELD 200 and 204.
Theory of drawing to include techniques of sketching out ideas through the development and layout of final blueprints. Estimating cost including the selection of appropriate materials and fabrication processes. Projects are required. Two maximum completions. Field trips may be required. Lecture/Laboratory. (A-F Only)

WELD 340—PIPE WELDING 3 Units
Prerequisite: WELD 200 and 300.
Introduction to general pipe fitting, welding procedures, applied layout and fit-up techniques. Field trips required. Three maximum completions. Lecture/Laboratory. Welding rod required. Not offered every semester.

WKEX
(Work Experience, General)

Modesto Junior College serves the needs of its students and those of the community through its Work Experience program. A program objective is to provide guidance and opportunity for career planning students in the real laboratory of the communities’ businesses, industries and public agencies. Work experience education results when it encompasses a systematic plan whereby students, while in college, gain realistic employment experiences through work.

Two Work Experience programs are offered: Cooperative General Work Experience and Vocational Work Experience. Employment may be on a paid or volunteer basis and may be at work sites on or off campus. For Vocational Work Experience, please see VOCWE (Work Experience, Vocational).

WKEX 351,352,353—GENERAL WORK EXPERIENCE 1, 2, 3 Units
Concurrent Enrollment: Minimum of 7 units including General Work Experience Supervised employment which assists students in acquiring desirable work habits, attitudes, and career awareness. The work experience need not be related to the student’s educational goals. Maximum of 6 units in any combination of completions. Lecture. Orientation. 2 Student/Coordinator Conferences and 5 one hour seminars. Laboratory: 75 hours paid or 60 hours non-paid work per semester equals 1 unit. One hundred twenty-five hours paid or 120 hours non-paid work per semester equals 2 units. Two hundred twenty-five hours paid or 180 hours non-paid per semester equals 3 units.

Continued
WKFSK
(Workforce Skills)

NON-CREDIT COURSES

WKFSK 801—INTRODUCTION TO WORKFORCE DEVELOPMENT SKILLS
Training for employees on how to achieve success in any career situation. Explores elements of communication, team building, active listening and job retention skills. Open entry/open exit. Lecture. Field trips may be required. Four maximum completions.

WKFSK 802—THE ART OF ACTIVE LISTENING
Training for employees on maximizing the effectiveness of communication in the workplace and elsewhere. Explores helpful listening techniques, dealing with listening problems, and moving from conflict to consensus. Open-entry/open-exit. Lecture. Field trips may be required. Four maximum completions.

WKFSK 803—TROUBLESHOOTING ON THE JOB
Training for employees on efficient and effective problem solving. Topics discussed include problem definition, finding the root cause, creating solutions, implementation of solutions and monitoring for success. Open-entry/open-exit. Lecture. Field trips may be required. Four maximum completions.

WKFSK 804—THE ART OF TEAMWORK
Training for employees on becoming a true “team player.” Topics covered include: team roles, facilitation, team communication, reaching agreements, team goal-setting, and effective leadership. Open-entry/open-exit. Lecture. Field trips may be required. Four maximum completions.

WKFSK 810—SKILLS FOR SUCCEEDING AT A NEW JOB
Intended for those just starting to work who are looking for skills to achieve success as a new employee. Explores in-depth job retention skills including job transition concepts, workplace expectations, customer service, attitude feedback and balancing work and personal life. Field trips may be required. Four maximum completions. Lecture.

ZOOL (Zoology)

ZOOL 101—GENERAL ZOOLOGY
4 Units
Prerequisite: BIO 101
Principles of animal life and classification. Survey of major animal and protozoan phyla with emphasis on evolutionary relationships, structural and physiological adaptations and ecological importance. Field trips required. Lecture/Laboratory. Transfer: (CAN BIOL 4, CAN BIOL SEQ A) CSU, UC (CC BIOL 4) General Education: (CSU-GE: B2) (IGETC:5B)

ZOOL 110—ANIMAL BIOLOGY
3 Units
A phylegetic survey of animal life including structure and function, genetics, ecology, evolution, development and reproduction as they pertain to animals. Not open to students who have completed BIO 101. Not a substitute for ZOOL 101. Field trips may be required. Lecture/Laboratory. Transfer: CSU, UC General Education: (CSU-GE: B2)
Appendix

About MJC Faculty, Administration, and Leadership
Yosemite Community College District

Board of Trustees

Pat Dean
Sonora, Trustee Area 1

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Patterson, Trustee Area 4

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Modesto, Trustee Area 5

Abe Rojas
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Chancellor

Diane Wirth
Vice Chancellor, Human Resources

Maria Baker
Director of Facilities Planning and Operation

Teresa Scott
Executive Vice Chancellor

Nick Stavrianoudakis
Director of External Affairs

Gina Rose
Assistant Chancellor, Information Technology

Modesto Junior College

Administration

Dr. William T. Scroggins
Interim President

Dr. James L. Johnson
Interim Vice President, Instruction

Dr. Robert E. Nadell
Vice President, Student Services

Susie Agostini
Dean of Matriculation, Admission, and Records

Derek Waring
Dean of Student Services

Dr. Tobin Clarke
Interim Dean of Learning Resources

George Railey
Dean of Instructional Services

George Boodrookas
Dean of Community Education and Economic Development
Faculty and Administrators (Date of appointment follows name.)

Adams, Barbara (2005)
Speech
B.A. California State University, Stanislaus
M.A., California State University, Fullerton

Adams Michael (1998)
Mathematics
B.S., M.S., UC Irvine

Adler, Sue (1991)
Library Faculty
B.A., University of Michigan
B.S., Western Michigan University
M.L.S., UC Los Angeles

Aiello, Paul (1991)
Baseball Coach, Physical Education Instructor
A.A., Modesto Junior College
B.S., University of Oregon
M.Ed., Chapman College

Akard, Michael (2001)
Computer Lab Instructor/Coordinator
A.A. Modesto Junior College
B.A., M.A., California State University, Fresno

Alavezos, Kevin (2004)
Office Administration
A.A., Reedley College
B.S., California State University, Stanislaus
M.B.A., California State University, Stanislaus

Alcantra, Daniel (1988)
Mathematics
A.A., Porterville College
B.A., M.A., California State University, Fresno

Amador, Steve (2004)
Agriculture
B.S., California Polytechnic State University
M.S., California Polytechnic State University

Biology
B.A., M.S., University of Southern California
Ph.D., University of California, Santa Barbara

Anelli, Bill (2005)
Philosophy
B.A., University of California, Berkeley
M.A. San Francisco State

Anglin, Mark A. (1997)
Dean, Agriculture, Environmental Sciences & Technical Education
B.S., M.S., California Polytechnic State University, San Luis Obispo

Ard, Gary L. (1971)
Golf Coach
Physical Education Instructor
B.A., M.A., University of Kansas

Aristotelous, Steve (2005)
B.S., St. Mary’s College
M.S., U.S. Sports Academy

Backlund, Nancy (1998)
Office Administration
B.A., California State University, Chico
M.B.A., California State University, Stanislaus

Baggett, David W. (1994)
Ornamental Horticulture/Plant Science
A.A.S., Ohio State University
B.S., University of Arizona
M.Ed. University of Massachusetts, Amherst
Md.D., University of Massachusetts, Amherst

Bailey, Kimberly (2000)
Counselor
A.A., Merced College
B.A., M.S., California State University, Stanislaus

Counselor
A.A., St. Lucy’s Priory
B.A., M.Ed., Northern Arizona University

Barr, Deborah (2004)
Art
A.A. Las Positas Community College
B.A. Mills College
M.A. San Francisco State

Bartels, LeAnne (2002)
Nursing
B.S.N., California State University, Stanislaus
M.S.N., California State University, Dominguez Hills

Beggs, James (1991)
English
B.A., University of Georgia
M.A., Clemson University
Ph.D., University of Tennessee

Berger, Paul (2005)
Art
B.F.A., University of Minnesota, Duluth
M.F.A., California State University, San Diego

Bettencourt, Patrick J. (2001)
English
B.A., M.A., California State University, Fresno

Black, Shawn (2005)
PE/Tennis Coach
A.A., Modesto Junior College
B.S., California State University, Fresno
M.A., California State University, Fresno

Bolley, David B. (1989)
Mathematics
B.A., Sonoma State University
M.S., University of Idaho

Anthropology
B.A., University of California, Santa Cruz
M.A., UC Riverside
M.A., Ph.D., University of California, Santa Cruz

Boodrookas, George (1989)
WorkForce Training Center
B.A., University of California, Berkeley
M.P.A., California State University, Stanislaus

Physical, Recreation, and Health Education, Sports Medicine
B.A., California State University, Fresno

Boyd, Marlies (1992)
Agriculture
B.S., M.Ed., University of California, Davis

Briggs, Christopher (2005)
Reading
B.A., Johns Hopkins University
M.A., Johns Hopkins University

Brogan, Paul (2001)
Physical Education Coach
B.A., M.A., California State University, Stanislaus

Brumley, Gail (2005)
Agriculture
A.A., College of the Sequoias
B.S., Cal Poly San Louis Obispo
Bryhni, Lori (2000)
Performing Arts - Dance
B.A., California State University, Stanislaus
M.A., California State University, Long Beach

Bucknam, Ines C. (1986)
French
A.A., Modesto Junior College
B.A., California State University, Stanislaus
M.A., University of California, Santa Barbara

Buzbee, Shirley (1994)
Medical Assisting
A.A., Modesto Junior College
B.S., University of San Francisco

Caddell, Joseph (2005)
Chemistry
B.S., California State University, Stanislaus
J.D., Golden Gate University
Ph.D. University of California, Davis

Carroll, Iris (2000)
Library Faculty
B.A., Emory University
M.L.S., University of North Texas

Carter, Florine (2001)
Humanities
B.A., M.A, George Washington University
M.A., California State University, Stanislaus

Cavazos, Leticia (2000)
Counseling
A.S., Modesto Junior College
B.S., University of San Francisco
M.A., Chapman University

Chapman, David (2001)
Music
B.A., Sacramento State University
M.A., S.F. Conservatory of Music

Christopherson, Michelle A. (1987)
English
A.A., Modesto Junior College
B.A., University of California, Davis
M.A., Sacramento State University

Cipponeri, Charles J. (2000)
Disability Specialist/Counselor
B.A., San Francisco State University
M.S., San Diego State University

Circle, Shelley (2001)
English
A.A., American River College
B.A., M.A., Sacramento State University

Clarke, James L. (1985)
Distance Education Coordinator
Health, Respiratory Care
A.A., Mt. Hood Community College
B.A., Sonoma State University
M.S., San Francisco State University

Coats, Gloria (1993)
Nursing
B.S.N., California State University, Stanislaus
M.S.N., California State University, Dominguez Hills

Conrado, Todd (2005)
Agriculture
B.S., Cal Poly San Luis Obispo
M.A., Cal Poly San Luis Obispo

Contreras, Marcos A. (1991)
Spanish
B.A., M.A., San Diego State University
M.A., University of California, San Diego
Ph.D., University of California, Santa Barbara

Cooper, Ron (1990)
Automotive Technology
A.A., Bakersfield College
B.A., California State University, Fresno

Costello, Bonnie (1992)
Nursing
A.D.N., Modesto Junior College
B.S.N., California State University, Stanislaus
M.S.N. California State University, Fresno

Articulation Officer
B.A., California State University, Fullerton
M.S., University of San Diego

Cripe, Paul (2001)
Mathematics

Crittenden, Pamela (1990)
Counselor
B.A., University of California, Berkeley
M.S., San Francisco State University

Curl, James C. (1968)
Mathematics
A.A., Modesto Junior College
B.A., San Francisco State University
M.S., University of Santa Clara
Ed.D., University of Northern Colorado

Curl, Sarah J. (1991)
Mathematics
B.S., University of Texas
M.A., University of Texas

Curtis, Teri (1996)
Biology
A.A., Modesto Junior College
B.A., California State University, Fresno
M.S., University of the Pacific

Daly, Jillian K. (1998)
English
B.A., University of California, Berkeley
B.A., M.A., University of California, Irvine

Dambrosio, Ellen (2005)
Library Faculty
B.A., San Francisco State University
M.A., California State University, Stanislaus
M.A., San Jose State University

DeAngelis, Adrian (2005)
Electronics

Dhillon, Hardev (1996)
Mathematics
A.S., Yuba College
B.A., M.A., Sacramento State University

Droual, Robert (1998)
Anatomy
B.A., Queens College, New York
M.A., Fresno State University
Ph.D., City University of New York
D.V.M., Purdue University

Drummond, Frank J. (2000)
Administration of Justice
A.A., Modesto Junior College
B.A., St. Mary’s College
M.A., Chapman University

Duarte, Hector M. (1996)
EOPS Assistant Director
B.S., M.A., College of Notre Dame

Duchscher, Lawrence Thomas (1988)
Art
A.A., Modesto Junior College
B.A., M.A., California State University, Chico
M.F.A., University of Washington

Ennis, Kathleen (1999)
Library Faculty
B.A., California State University, Stanislaus
M.A., University College, Dublin
M.L.S., San Jose State University

Ewing, Charles (1990)
Speech, Communication, Forensics
B.S., M.A., University of Texas, El Paso
Ph.D., Washington State University

Fagin, Mara (1988)
English
B.A., M.A., Humboldt State University
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<td>FE/Water Polo &amp; Swim Coach</td>
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<td>Psychology</td>
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<td>Garcia, Alida (2000)</td>
<td>EOPS Counselor</td>
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<td>English</td>
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<td>Culinary Arts</td>
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<td>B.S., University of California, Davis</td>
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<td>Biology</td>
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<td>Griffiths-Bender, Wendy (2005)</td>
<td>Library Faculty</td>
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<td>Office Administration</td>
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<td>Child Development/FCS</td>
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<td>Gumm, Sonny C.</td>
<td>Welding Technology</td>
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<td>Speech, Organizational</td>
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<td>B.S., Central Michigan University</td>
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<td></td>
<td>Communication</td>
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<td>Human Services</td>
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<td>Business, Computer Graphics</td>
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<td>Nursing</td>
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<td>Geology</td>
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<td>Higginbotham, Richard D. (1968)</td>
<td>History, Political Science</td>
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<td>Hudelson Putnam, Cecelia (1997)</td>
<td>Geography/Economic History</td>
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<td>MSc, London School of Economics</td>
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**Faculty and Administrators**
Hughes, Noah (2005)  
Earth Science  
B.S., University of Colorado  
M.S., University of Montana

Hurst, Rose Lee (1991)  
English  
A.A., Cosumnes River College  
B.A., M.A., Sacramento State University

Hutchison, Bobby L. (1997)  
Psychology  
B.A., University of California, Santa Barbara  
M.A., Sam Houston State University, Texas

Ivory, Eric Anthony (1997)  
Counselor  
A.A., College of Alameda  
B.A., M.S., California State University, Hayward

Jarrett, Elzbieta B. (1992)  
Mathematics  
M.S., Wroclaw University, Poland  
Ph.D, Western Michigan University

Jensen, Barbara (1999)  
English  
B.A., M.A., TESOL Certificate, California State University, Stanislaus

Johnson, James L. (1969)  
Interim Vice President, Instruction  
B.A., M.A., California State University, Hayward  
Ph.D, University of Southern California

Mathematics  
B.S., University of San Francisco  
M.S., Idaho State University

Dean, Physical, Recreation and Health Education  
B.S., West Virginia University  
M.A., University of Northern Colorado  
Ed.D., Temple University

Keach, Robert M. (1991)  
Dental Assisting  
B.A., Chapman College  
R.D.A., Registered Dental Assistant/State of California  
C.D.A., Certified Dental Assistant/National Certification Examination

Keller, Daniel (1996)  
Music  
B.M., Northern Arizona University  
M.M., University of Oklahoma

Kennard-Lyke, Kimberly (2001)  
Human Services  
B.A., University of California, Davis  
M.S., Long Island University, C.W. Post Campus  
D.S.W., City University of New York-Graduate School & University Ctr.

Keriotis, Dimitri (2000)  
English  
B.A., University of California, Santa Cruz  
M.A., University of Nevada, Reno  
M.F.A., California State University, Chico

Keriotis, Ingrid (2001)  
English  
B.A., The Evergreen State College  
M.F.A., Eastern Washington University

Accounting, Business  
B.S., San Francisco State University  
M.B.A., California State University, Stanislaus

Kropp, Jon (2000)  
Industrial Technology  
B.S., California State University, Chico

Lafranchini, Deborah (2001)  
Child Development  
B.A., Humboldt State University  
M.A., San Francisco State University

LaMont, Rose Marie (1992)  
Economics  
A.A., Cabrillo College  
B.A., M.S., University of California, Santa Cruz

Lancaster Mingus, Carol (1994)  
Telecommunications  
A.A., Pima Community College  
B.A., University of Arizona  
Vocational experience 18 years

Lanigan, Elizabeth (1994)  
Nursing  
B.S.N., California State University, Stanislaus  
M.S.N., California State University, Dominguez Hills

Larson, Brian (1994)  
Computer Science  
B.S., California State University, Stanislaus  
M.S., Sacramento State University

Layne, Alan (1992)  
Graphics Technology  
B.S., California Polytechnic State University, San Luis Obispo

Llewellyn, Sharon (1997)  
Music  
B.A, Grand Canyon University  
M.A. Arizona State University  
D.M.A. Arizona State University

Louie, Donna (2005)  
Counselor

Louie, Hanna (1999)  
Counselor  
A.A., San Joaquin Delta College  
B.A., California State University, Stanislaus  
M.S., Sacramento State University

Counselor  
A.A., Modesto Junior College  
B.A., UC Santa Barbara  
M.A., Sacramento State University

Lowry-Perez, Ann (2003)  
Interior Design  
B.S., University of the Pacific  
M.A., California State University, Stanislaus

Astronomy, Physical Science  
M.S., University of Chicago  
B.A., Ed.D., UC Berkeley

Luman, Ruth (1999)  
English as a Second Language  
B.A., M.A., TESOL Certificate, Biola University

Lyle, Terry (1983)  
Program Director, Respiratory Care Program  
B.A., Sonoma State University  
M.A., California State University, Long Beach

Lynch, Michael (1992)  
Theatre  
B.A., California State University, Fresno  
M.A., Northwestern University, Chicago

Madden, Derek (1990)  
Biology  
B.A./B.A., M.A. California State University, Fresno

Madriaga, Charles (2000)  
Counselor/Study Skills  
A.A., Hartnell College  
B.A., M.A., California State University, Stanislaus
Maki, Erik (2005)  
Music  
B.A., California State University, Fresno  
M.A., University of Illinois

Maki, Laura (1996)  
Chemistry  
B.S., California State University, Fresno  
Ph.D., University of California, Davis

Malsam, Emily (2005)  
English  
B.S. North Dakota State University  
M.A. North Dakota State University

Manner, Kimberly E. (1998)  
English  
B.A., University of Southern California  
M.A., University of Southern California  
Ph.D., University of Southern California

Manzo, Laura (2005)  
Spanish  
B.A. San Diego State University  
M.A., University of California, San Diego

Martin, Anne (2001)  
Music  
A.S., Santa Fe Community College  
B.M., New School of Music  
M.M., Yale University

Martin, G. Daniel (1981)  
English as a Second Language  
B.A., UC Santa Barbara  
M.A., University of Illinois

Martin, Harold Curtis (2000)  
History  
B.A., UC Berkeley  
M.A., ABD, University of California, San Diego

Martinez, Desdemona (1989)  
High Tech Specialist, DSP&S  
A.A., Modesto Junior College  
B.A., California State University, Stanislaus  
M.A., San Francisco State University

Martinez, John (2004)  
Dean for Special Programs; DSPS, EOPS  
A.A., Cosumnes River College  
B.A., Sacramento State University  
M.A., Sacramento State University

Business  
B.A., St. Joseph’s College, New York  
Graduate Certif. Philosophy/Theology  
Gregorian University, Rome, Italy  
M.A., Georgia State Univ., Atlanta  
M.A., Indiana University  
M.B.A., California State University, Stanislaus  
L.L.M., Golden Gate University  
J.D., University of Southern California

McInnes, Elizabeth (2005)  
Biology

McKenzie, Ross John (2001)  
Math  
B.S., California Polytechnic State University, San Luis Obispo  
M.A., U.C. San Diego

McKissick, Allan D. (1981)  
Speech Communication  
A.A., Glendale Community College  
B.A., M.A. California State University, Los Angeles

Meidl, Kenneth (1998)  
Physics  
B.S., California Polytechnic State University, San Luis Obispo  
M.S., California State University, Fresno

Mendes, John A. (1991)  
Agriculture  
A.A., Modesto Junior College  
B.S., M.S. California Polytechnic University San Luis Obispo

Mendez, Pedro (1994)  
Director of Technical Education  
B.A., California State University, Stanislaus  
M.A., George Washington University

Merchant, Lee (1988)  
Psychology  
A.A., Modesto Junior College  
B.A., M.A., M.F.T., California State University, Stanislaus

Metcalfe, Evelyn Elaine (1980)  
English as a Second Language  
B.A., University of California, Berkeley  
M.A., University of Hawaii  
Certificate, UC Los Angeles

Michelena, Jaymes (2001)  
Math  
B.S., California State University, Stanislaus  
M.A., California Polytechnic State University, San Luis Obispo

Miller, Steven (2005)  
Political Science  
B.A., Haverford College  
M.A., University of California, Berkeley  
Ph.D., University of California, Berkeley

Mo, Eva (1999)  
History  
A.A., Chabot College  
B.A., University of California, Berkeley  
M.A., San Francisco State University

Monast, Joseph H (2001)  
Philosophy  
B.A., M.A., Ph.D., Tulane University

Monlux, Michele (2001)  
Biology  
A.A., Chabot College  
B.A., M.A., University of California, Berkeley

Morales, Michael  
Agriculture  
A.S. Kings River College  
B.S. California State University, Fresno

Motroni, Milan (2001)  
Health, Adaptive Physical Education  
B.A., University of California, Davis  
M.A., University of the Pacific

Mulder, Cheryl (1996)  
Health, Physical Education, Coach  
B.A., California State University, Stanislaus  
M.S., U.S. Sports Academy

Nadell, Robert (2005)  
Vice President of Student Services  
B.S., Cal Poly Pomona  
M.A., California State University, Los Angeles  
Ed.D., Argosy University

Nanez, Estella (1988)  
Counselor  
B.A., M.A., San Jose State University  
CCC Counselor Credential  
CCC Limited Teaching Credential

Nelson-Hollis, Vicki (1992)  
Nursing  
A.A., L.V.N., Golden West Community College  
B.S.N., M.S.N., California State University, Fresno

Netto, Jeffrey A. (1999)  
English  
Ph.D., University of California, Santa Barbara
Netto, Jenny Tashjian (2001)
English
B.A., B.A., University of California, Santa Barbara
M.A., California State University, Fullerton

History
A.A., Bellevue Community College
B.A., Washington State University
M.A., Ph.D., University of Idaho

Nicewonger, John (1979)
Agriculture
B.S., California State University, Chico

Niemeyer, Bronda (2005)
Dental Assisting

Agriculture & Environmental Sciences
B.S., M.A., California Polytechnic State University, San Luis Obispo

Nomof, Thomas (2000)
Physics
B.A., University of California, Berkeley
M.S., San Jose State University

Nordin, David (2001)
Respiratory Care
B.A., University of North Dakota

Olson, Kurt (2004)
PE Coach
B.A., University of California, Davis
M.A., National University

Onorato, Daniel S. (1969)
English, Spanish
B.A., St. Patrick’s College
M.A., University of California, Berkeley

Onorato, Mary Alice
Nursing
A.A., A.S., Modesto Junior College
R.N. State of California
Certification in Gerontology, American Nurses Credentialing Center
D.S.D., Dept. of Health Services, Sacramento

One, Optimism (2005)
English
B.A., Modesto Junior College
B.A., University of California, Berkeley
M.A., California State University, Stanislaus

Paul, Laura (1995)
Journalism
B.A., Vassar College
M.A., Stanford University

Payvar, Kamran (1997)
Mathematics
B.S., Teachers Training University
M.S., California State University, Fresno

Peek, Adrienne (2005)
English
B.A., M.A, California State University, Fresno

Petersen, John Walter (1983)
Auto Body
Teacher Training, University of California, Berkeley
Vocational Experience, 15 years
I-Car Certified
Automotive Service Excellence Certified

Peterson, John (1997)
Automotive Technology
Vocational Experience, 18 years
p/t Chabot/Las Positas 2 years

Pham, Le-Huong (1981)
Library Faculty
LL.B., University of Saigon, Vietnam
M.L.S., Emporia State University

Phillips, Dale (2005)
Computer Science
A.A., Modesto Junior College
B.A., Western Illinois University
M.B.A., University of LaVerne

Pierstorff, Samuel (2000)
English/Creative Writing
A.A., Orange Coast College
B.A., M.F.A., California State University, Long Beach

Pinckney, Jan (1994)
Auto Tech
A.A., Fresno City College
B.V.E., California State University, Fresno
National University Credential Program
Teacher Training - University of California, Berkeley

Pollack, Dana (2005)
Counselor
B.A. University of California, Davis
M.A., Sonoma State University

Pollard, Dale (1999)
A.S., Modesto Junior College
B.S., M.S., California Polytechnic University, San Luis Obispo

Prusso, Laurie (2001)
Child Development
B.A., M.S., California State University, Hayward

Rajagopal, Nivedita (2004)
English

Ramsey, Jill D (2000)
Nursing
A.A., Modesto Junior College
B.S., Psychology, University of California, Davis
B.S., Nursing, Loyola Univ. of Chicago
M.S., University of California, San Francisco

Rapetti, Dione (2005)
Nursing
A.D.N., Rancho Santiago College
B.S., San Jose State University

Ray, Michael (2005)
Computer Science
B.A., Northeastern Illinois University
M.S., DePaul University

Redwing, Chad (2005)
Humanities
B.A., Arizona State University
M.A., University of Chicago

Nursing
B.S.N., California State University, Stanislaus
M.S.N., California State University, Dominguez Hills

Robert, Brenda J. (1997)
Dean, Literature and Language Arts
B.A., M.A., Kansas State University,
Manhattan, KS
Ph.D., George Mason University,
Fairfax, VA

Rosliane, Mary (2001)
Chemistry

Sabre, Alejandro
Music
D.M.A., Eastman School of Music,
Rochester, NY

Sahlman, James (1999)
Speech
A.A., Modesto Junior College
B.A., California State University,
Stanislaus
M.A., University of the Pacific
Ph.D., Ohio University
Salazar, Roman S. (1973)
Business
A.A., Eastern Arizona Junior College
B.S., Northern Arizona University
M.S., Utah State University

Sanders, Brian K. (1995)
Mathematics
B.S., University of California, Santa Barbara
M.A., University of Oregon

Scheg, Lawrence (2000)
Reading
B.A., Niagara University
M.A., Western Connecticut State College

Schmidt, Cynthia D. (1996)
Nursing
B.S.N., California State University, Fresno
M.S.N., Sacramento State University

Interim President
B.S., University of California, Los Angeles
Ph.D., UC Riverside

Scully, Dorothy L. (1980)
Reading
B.A., UC Los Angeles
M.S., California State University, Fullerton

Art History
A.A., Modesto Junior College
B.A., PhD., UC Santa Barbara

Shea, Mary (2001)
Health, Physical Education
Coach, Cross Country, Track & Field
B.S., Michigan State University
M.S., Eastern Michigan University

Short, Kathy (1977)
Computer Graphics/Computer Science
B.A., California State University, Fresno

Shrock, David L. (1997)
Health Education
B.A., M.A., San Jose State University

Sielicki, Hilda M. Cagigas (1992)
Health Services Coordinator
A.D.N., East Los Angeles College
B.S.N., P.H.N., California State University, Dominguez Hills
M.S.N., P.N.P., University of California, San Francisco

Sill, Nancy (2000)
Accounting
B.S., California State University, Stanislaus
Certified Public Accountant
MAOL, Chapman University

Silva, M. Kathleen (2002)
Director, College Research & Planning
B.A., San Jose State
M.A., California State University, Stanislaus
Ph.D., The Pennsylvania State University

Silva, Mary (1997)
Counseling
B.Ed., St. Patrick’s College, Dublin, Ireland
M.A., California State University, Chico
J.D., Cal Northern School of Law, Chico

Sinclair, Brian (2005)
Computer Graphics
A.A., Modesto Junior College
B.F.A. Art Center College of Design
M.A., Chapman University

Smedshammer, Michael (2000)
English
A.A., Santa Rosa Junior College
B.A., University of California, Berkeley
M.A., M.A., Ph.D. University of New Mexico

Smith, Ann (2000)
English
B.S., Univ. of Wisconsin, Milwaukee
M.A., University of Hawaii

Smith, Al (1994)
History
A.A., Fresno City College
B.A., M.A., California State University, Fresno

Smith, Del William (1999)
Biology/Botany/Natural History
B.S., Southern Utah University
M.S., Ph.D., Brigham Young University

Smith, Denise (1992)
English
A.A., Modesto Junior College
B.A., M.A., California State University, Stanislaus

Photography
B.A., University of California, Davis
M.F.A., California College of Arts & Crafts

Sola, John (2003)
Fire Science

Spector, Stanley J. (1986)
Philosophy
B.A., M.Ed., Loyola College, Baltimore
M.A., Ph.D., University of Colorado

St. Urbain, Barbara (1998)
Counselor
B.G.S., M.A., University of Iowa

Steiner, Gabriele (1991)
German / ESL
Literature & Language Arts
B.A., University of Klagenfurt, Austria
M.A., UC Irvine

Stevens, Jim (2000)
Physical Education; Football Coach
A.A., American River College
B.S., M.S., California State University, Hayward

Stevenson, Robert (2001)
Art
B.A., University of California, Berkeley
M.F.A., S.F. Art Institute

Strangio, Michael (1981)
English as a Second Language
B.A., College of Notre Dame
Certificate in TESOL, University of California, Los Angeles
M.A., University of San Francisco

Stroud, Stephen (1980)
Music
A.A., Modesto Junior College
B.A., University of California, Los Angeles
M.S., Ed.D., University of Illinois, Urbana-Champaign

Sundquist, Michael (1988)
Interim Dean, Arts Humanities and Communications
A.A., Crafton Hills College
B.A., M.F.A., UC Irvine

Sweeney, Richard A. (1967)
Sociology
B.A., M.A., San Jose State University

Tingley, Ronald R. (1971)
Counselor
A.A., Modesto Junior College
B.A., M.S., San Jose State University

Thorpe, Dennis (2005)
Architecture
B.S. California Polytechnic State University
P.E., Civil Engineer
P.E., Structural Engineer

Torok, Michael L. (1999)
Dean, Science, Math & Engineering
B.A., B.S., University of California, Santa Barbara
M.S., Moss Landing Marine Laboratories California State University, Stanislaus

Tsuruda, Dean Y. (1975)
Counselor
B.A., Occidental College
M.S., California State University, Los Angeles
Upton, Pamela (1990)
Anatomy and Physiology
A.A., A.S., Merced Community College
B.A., University of California, Davis
M.A., California State University, Fresno

Uyeshiro, Sandra (1981)
Anatomy and Physiology
B.A., Bellarmine University, Louisville, Ky
M.S., Purdue University, West Lafayette, Indiana

Vallee, Lillian (1991)
English
A.A., College of San Mateo
B.A., M.A., Ph.D. University of California, Berkeley

Vaughn, Christopher (1999)
Computer Science
B.S., California State University, Stanislaus

Vaughn, Timothy (1996)
Industrial Electronics
B.S., California State University, Stanislaus

Vaught, Lloyd C. (1982)
Computer Science
B.A., Missouri Valley College
M.S., Central Missouri State University
M.S., University of California, Berkeley

Wall, J. Patrick (2001)
Director of Basic Skills
B.S., U.C. Davis
M.A., California Polytechnic State University, San Luis Obispo
Ph.D., University of Las Vegas

Ward, David G. (1992)
Anatomy and Physiology
B.A., California State University, Stanislaus
Ph.D., University of Oklahoma Health Sciences Center
Postdoctoral Certificate, The Johns Hopkins University School of Medicine

Nursing
Nursing Diploma, Providence College of Nursing
B.S.N., California State University, Stanislaus
M.S.N., California State University, Dominguez Hills

Waring, Derek (1995)
Counseling, Dean of Student Services
A.A., Modesto Junior College
B.A., California State University, Stanislaus
M.A., University of San Francisco

Weaver, Jeffery L. (1989)
Machine Tool Technology
A.A., Modesto Junior College
B.V.E., California State University, Stanislaus

Weese, Larry R. (1972)
Architecture
B.A., California Polytechnic State University, San Luis Obispo
M.S., Rensselaer Polytechnic Institute

Wells, Barbara (1981)
Disability Services
A.A., Modesto Junior College
B.A., California State University, Stanislaus
M.A., California State University, Fresno

Wells, Barbara (B.J.) (2001)
ESL
B.A., University of Connecticut
M.Sc., Aston University, Birmingham, U.K.

Wesley-Hartman, Charmaine (1990)
Counselor
B.S., M.S., University of Oregon
Ph.D., Oregon State University

West, Thomas (2001)
English
A.A., Fresno City College
B.A., M.A., California State University, Fresno
M.F.A., Western Michigan University

Westrope, Theron K. (1999)
English
B.A. University of the Pacific
M.A. University of the Pacific
Ph.D. University of Louisiana at Lafayette

White, Kenneth B. (1996)
History
A.A., Merritt College
B.A., California State University, Chico
M.A., Florida State University
Ph.D., University of Arizona

Williams, Robert C. (1975)
Counselor
B.S., University of Wisconsin
M.S., Indiana University

Williams-Jackson, Cheryl (2005)
Child Development
A.A., Hartnell College
B.A., California State University, San Jose
M.A., California State University, San Jose

Wilson, Jeremy I. (2005)
Engineering
B.S., California State University, Fresno
M.S., California State University, Davis

Wilson, Lynda L. (1983)
Nursing
A.A., College of San Mateo
B.S., California State University, Stanislaus

Woodside, Sandra (2000)
Sociology
B.A., University of Maryland
M.S., Drake University

Wray, Gerald (2006)
Technical Education
M.S.C., The Queens University of Belfast, Northern Ireland

Ye, Xiang-Dong (2001)
Mathematics
M.S., Ph.D., University of Iowa

Young, Sam C. (1996)
Physical Education
B.A., University of California, Davis
M.S., Sacramento State University

Zamora, John A. (2001)
Computer Science
A.S., College of the Sequoias
B.S., California State University, Fresno
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<th>Name</th>
<th>Years</th>
<th>Department/Field</th>
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<td>Adams, Shirlee D.</td>
<td>1971-2003</td>
<td>Art</td>
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<td>1969-2004</td>
<td>Earth Science, Meteorology</td>
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<td>Albani, Jack P.</td>
<td>1969-1997</td>
<td>Physical Education Coach</td>
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<td>Allen, Kenneth L.</td>
<td>1969-2000</td>
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<td>1971-2004</td>
<td>Counseling, Dean of Student Services</td>
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<td>1974-2004</td>
<td>Agriculture</td>
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<td>1975-1985</td>
<td>Automotive</td>
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<td>1971-2004</td>
<td>Physical Education, Math</td>
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<td>1992-2004</td>
<td>Public Safety</td>
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<td>1970-1999</td>
<td>Biology</td>
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<td>Geology</td>
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<td>1971-1999</td>
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<td>Dean, Agriculture, Biological Sciences</td>
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<td>1969-2004</td>
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<td>1965-2002</td>
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<td>1974-2000</td>
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<td>1955-1972</td>
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<td>1965-1993</td>
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<td>1979-1999</td>
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<td>1989-2003</td>
<td>Physical Education</td>
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<td>1975-1993</td>
<td>Allied Health</td>
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<td>1974-2001</td>
<td>Dean, Business, Behavioral &amp; Social Sciences</td>
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<td>Ekker, Richard C.</td>
<td>1981-2001</td>
<td>English</td>
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<td>Elam, Robert V.</td>
<td>1969-1998</td>
<td>History, Anthropology</td>
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<td>Elms, Stan W.</td>
<td>1962-1992</td>
<td>Zoology, Biology, Senior Curator, Great Valley Museum</td>
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<td>Espinola, Frank Jr.</td>
<td>1960-1976</td>
<td>Agriculture</td>
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<td>Faukner, Lloyd E.</td>
<td>1968-1981</td>
<td>Dean, Arts, Humanities and Communication Division</td>
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<td>Fernandez, Horacio</td>
<td>1962-1987</td>
<td>Spanish</td>
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<td>Fischer, Harry L.</td>
<td>1947-1972</td>
<td>Engineering, Department Chairman</td>
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<tr>
<td>Fisher, Charles E.</td>
<td>1960-1990</td>
<td>Counselor</td>
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<td>Fisher, Pamela</td>
<td>1979-2004</td>
<td>Chancellor, Yosemite Community College District</td>
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<td>Freeman, Darlene L.</td>
<td>1965-2003</td>
<td>Business</td>
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<td>Gallaway, Julia</td>
<td>1982-1996</td>
<td>Foods and Nutrition</td>
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<td>Gauvreau, Bob</td>
<td>1974-2002</td>
<td>Dean of Instructional Services</td>
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<td>Gonsalves, Clare</td>
<td>1964-1985</td>
<td>Nursing</td>
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<td>Goodrow, Marvin H.</td>
<td>1968-1991</td>
<td>Chemistry</td>
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<td>Green, Jack Byron</td>
<td>1961-1991</td>
<td>Spanish</td>
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<tr>
<td>Mary Ann Greenwood</td>
<td>1975-2004</td>
<td>Coordinator of CETA Education Programs</td>
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<tr>
<td>Hanna, Jean G.</td>
<td>1958-1984</td>
<td>Business</td>
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<td>Hansen, Lynn M.</td>
<td>1968-2001</td>
<td>Biology</td>
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<td>Havens, Richard A.</td>
<td>1964-1980</td>
<td>Agriculture</td>
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<td>Heinsius, John J.</td>
<td>1979-2004</td>
<td>Business</td>
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<td>Henline, Horace</td>
<td>1973-1985</td>
<td>Assistant Dean, Admissions and Records</td>
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<tr>
<td>Hertert, Patricia C.</td>
<td>1961-1979</td>
<td>Instructional Resources Consultant</td>
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<tr>
<td>Hickman, Richard</td>
<td>1990-2003</td>
<td>Mathematics</td>
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<td>Hilabeck, Robert L.</td>
<td>1968-1993</td>
<td>Auto Body</td>
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<td>Hinchev, Gwendolyn</td>
<td>1966-1988</td>
<td>Nursing</td>
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<td>Hodge, Douglas</td>
<td>1975-1996</td>
<td>Dean, Physical, Recreational and Health Education</td>
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<tr>
<td>Hodges, Stanley L.</td>
<td>1965-1995</td>
<td>President</td>
</tr>
<tr>
<td>Hoehg, Bob</td>
<td>1961-1990</td>
<td>Physical Education</td>
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<tr>
<td>Kline, Roberta</td>
<td>1988-2004</td>
<td>Child Development</td>
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<td>Knes, Donald</td>
<td>1976-1991</td>
<td>Counselor</td>
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<td>Kreger, Gerald</td>
<td>1965-1992</td>
<td>Reading</td>
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<td>Lab, Walter F.</td>
<td>1965-1987</td>
<td>Art</td>
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<tr>
<td>Lafaille, Leon L.</td>
<td>1948-1980</td>
<td>Physical, Recreation and Health Education</td>
</tr>
</tbody>
</table>
Faculty Emeriti

Lafon, Diana 1959-1978
Home Economics

La Mothe, Harry 1965-1983
Trade and Technical

Lane, Ronald W. 1969-1999
English

Lavaggi, Nita 1953-1974
Assistant Librarian

Lawrence, Dorothy J. 1954-1974
Home Economics

Lea, Ugo P. 1963-1990
Dean of Student Services

Cinematography/Television

Lenkeit, Don 1972-2004
Anthropology

Lenkeit, Roberta 1976-2004
Anthropology

Lippert, Roy H. 1950-1970
Agriculture

Loeffler, Roland 1954-1985
Physical Science

Lomax, Brian 1986-2004
Electronics

Loyd, Richard 1966-1996
Physical Education

Ludlow, Jim 1955-1978
Speech

Lundberg, Donald L. V. 1965-1976
Counselor

Mace, Joy D. 1974-2004
Family and Consumer Sciences

Manha, Vivian 1959-1985
Dean of Instruction

Manrique, Julius C. 1973-1997
Assistant Dean, Student Services

Manzoni, Ronald D. 1968-1996
Vice President of Instruction

Mayhew, Lewis B. Jr. 1973-2004
Counseling

McAllister, Alice D. 1953-1968
Nursing

McArthur, Jack 1961-1993
Behavioral and Social Sciences

McCallum, William J. 1956-1965
Science; Counselor

McClarty, Edward L. 1956-1965
Science; Counselor

Mace, Joy D. 1961-1992
Computer Science

Morris, Bernard E. 1972-2003
English

Morrow, Marilyn M. 1955-1979
Physical Education

Mortensen, Barbara 1967-2002
Health, Physical Education

Mudie, John 1963-1996
Physics

Medical Assisting

Murov, Steven L. 1979-2006
Chemistry/MAPS

Murray, Maurine N. 1950-1964
Business

Nash, John D. 1965-1993
History

Neumann, Paul R. 1968-1997
English

Nicholas, Dorothy F. 1965-1977
Reading and Study Skills

Nicholson, Coley 1965-1997
English

Nylander, Selma 1969-1977
Dental Assisting

O'Bosky, Julia 1983-1990
Dean, Health Occupations

O'Connor, Michael 1977-2005
Chemistry

Ogawa, Sayuri E. 1979-2002
Family and Consumer Sciences

Olmstead, Mrs. Helen E.L. 1946-1964
English

Ortega, Augusto 1972-1997
Auto Technology

Ortega, Jose F. 1977-1999
Business

Ottohoni, Lorraine 1965-1992
Business

Overgaard, Nels, Jr. 1973-1993
Dean, Business

Palnie, B. Jeanne 1966-1989
Dean, Home Economics/Trade & Technical

Parsons, Mark C. 1955-1975
Physical, Recreation, Health Education

Learning Disabilities

Pederson, Evelyn 1962-1974
Counseling

Pehl, Sue 1977-2004
Office Technologies

Person, Pauline M. 1962-1974
Nursing

Peteresen, Carole 1989-2004
Counselor

Peteresen, Daniel W. 1967-2003
Art

English

Business

Raduechel, Robert D. 1983-2004
Automotive Technology

Raleigh, Peter 1971-2004
English

Ralph, Helen 1965-1985
Home Economics

Reaves, William 1965-1997
Counseling

Reilly, Jerry M. 1968-2003
Art

Rensing, Joseph Gary 1971-2004
Art

Reynolds, Leo 1970-1988
Music

Rhodes, Richard 1973-2003
Behavioral Social Sciences

Richina, Richard R. 1968-1990
Automotive Technology

Rissi, Doris D. 1964-1987
Nursing

Assistant Dean of College Services

Shaffer, Joseph A. 1975-1999
Assistant Librarian

Scheuber, Pius J. 1968-1993
Agriculture

Schwark, Louis 1956-1981
Work Experience

Sensenbaugh, Dean 1956-1985
Physical Education; Coach

Shannon, Almetta 1989-2004
Nursing

Shaw, Kathleen G. 1982-2002
English

Shepton, Mary Rose 1985-1995
Health Services Coordinator

Shuler, Dorothy I. 1957-1970
English

Sieffkin, Randolph R. 1970-2001
Political Science

Sigmund, Patricia E. 1974-2001
Nursing

Simms, Odette P. 1962-1993
English; Folklore

Smith, Ron 1970-1996
Biology

Smith, Wilma 1947-1984
Counseling

Smykal, Anthony, Jr. 1960-1993
Learning Skills/Counseling

Counselor

Stanley, Elaine S. 1946-1948; 1959-1975
Arts

Starr, Benjamin S. 1970-2002
Philosophy

Mathematics

Welding

Sternberg, Morris 1946-1963
Science

Stone, Duane 1978-2004
Architecture

Streeter, Gerald 1964-1991
Physical Education, Coach

Swanson, Carol 1991-2002
Nursing

Talbot, Carl 1971-1988
Speech

Thompson, A. Lance 1974-1999
Dean, Science, Math & Engineering

Thompson, Lucille 1969-1985
Nursing

Thorson, Larry 1966-1989
History, Political Science

Top, Darrell 1968-2003
Mathematics

Trimble, William C. 1968-2000
English as a Second Language

Turner, N. Edmund 1965-1984
Electronics

Tye, Elizabeth 1960-1985
Home Economics

Valaas, Geraldine 1969-1985
Dental Assisting
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<td>Van Dyken, Marian J.</td>
<td>1967-1988</td>
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<td>1957-1979</td>
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<td>1966-1983</td>
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<td>Wilson, Marian</td>
<td>1976-1991</td>
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<td>Wilson, E. William</td>
<td>1980-2005</td>
<td>Computer Science</td>
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<td>Wiinikka, Peter G.</td>
<td>1976-2000</td>
<td>Physics</td>
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<td>Wood, Edward D.</td>
<td>1947-1971</td>
<td>Science</td>
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<td>Woodward, Lewis</td>
<td>1974-1997</td>
<td>Music</td>
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<td>Woodward, Pauline E.</td>
<td>1963-1990</td>
<td>Nursing</td>
</tr>
<tr>
<td>Zehnder, John F.</td>
<td>1968-1993</td>
<td>Learning Skills</td>
</tr>
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</table>
GLOSSARY OF COLLEGE TERMS

A.A.: ASSOCIATE IN ARTS: General degree granted by California Community Colleges. See Instructional Programs for requirements.

A.S.: ASSOCIATE IN SCIENCES: General degree granted by California Community Colleges having more emphasis on two-year vocational training than the A.A. degree. See Instructional Programs for requirements.

ADVISOR: An instructor who assists students in developing a program of study within a major. Contact major division office for advisor assignment.

ADVANCED STANDING: Classification of student who has had previous college work.

BACHELOR'S DEGREE: Degree granted by four-year colleges. Usually the Bachelor of Arts (B.A.) or the Bachelor of Science (B.S.).

CALIFORNIA ARTICULATION NUMBER (CAN): The CAN system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus.

CLASS SCHEDULE: The listing of courses including hours, instructors, and room assignments to be offered each semester.

COMMUNITY EDUCATION CLASSES: Fully fee-funded avocational and recreational classes. These classes carry no credit value.

COUNSELOR: A person qualified to assist students with personal, career, avocational and educational planning and development.

CREDIT (graded) COURSE: Course for which units are granted. At MJC, any course numbered 1 through 399.

CREDIT-NO CREDIT GRADING: A grading system allowing a course to be taken for a grade of Credit or No Credit rather than for a letter grade of A, B, C, D, F. See Academic Regulations for details.

ELECTIVES: Courses elected by the student which do not fulfill any specific requirement but provide units toward the degree.

GENERAL EDUCATION OR BREADTH: Courses required of all degree candidates regardless of their major to assure a broad education. These differ for the A.A. and A.S. degrees and for transfer. See Instructional Programs for specific requirements.


LOWER DIVISION: The first two years of college work, i.e., freshman and sophomore years, for a bachelor's degree. By law only lower division work can be offered at MJC.

MAJOR: The major field of study a student plans to pursue, e.g., biology, nursing, etc.

MINOR: The field of study a student plans to pursue in addition to the major but with less emphasis. A minor is not usually required.

NON-CREDIT (ungraded) COURSE: Course for which no units are given. At MJC, any course numbered 800-999.

PREREQUISITE: A requirement which must be completed prior to enrollment in a course. If required, it is listed in the course description. See section on Courses.

SEMESTER UNIT: In general, a semester unit represents 1 hour of lecture or 3 hours of laboratory per week for a semester. Graduation requires 62 semester units. One semester unit is equivalent to one and a half quarter units.

TRANSCRIPT (of record): Copy of student's college record prepared by the Record's Office.

UPPER DIVISION: The last two years of college work, i.e., junior and senior years and/or courses. Upper division work is not offered, and upon evaluation request may be accepted for credit at MJC.
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LEGEND

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6. Yosemite Hall
7. Sierra Hall
8. Ansel Adams Hall
9. John Muir Hall
10. MWk U Child Development Lab
11. Wawona Childcare Center
12. Mary Stuart Rogers Student Learning Center
13. Regional Fire Training Center
14. Tenaya Complex
15. El Capitan Center
16. Handball Court
17. Crafts Center- W 6000
18. Receiving- W 6100
19. Wildlife Productions
20. Facilities Operations- W 7000
21. Beef Pasture
22. Togo Complex
23. Transportation- W 8100
24. Maintenance Shops- W 8200
25. Farm Supervisor Residence
26. Farm Shop
27. Farm Storage
28. Sheep Unit
29. Dairy Beef Unit

East Campus

LEGEND

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2. Auditorium
3. Art
4. Art Gallery
5. Music
6. Great Valley Museum
7. Buildings & Grounds
8. Electronics/Computer Science
9. Founders Hall
10. Journalism
11. Classroom Annex
12. Forum
13. Student Center
14. Learning Resource Center/Library
15. Physical Education Men
16. Physical Education Offices
17. Physical Education Women
18. Gymnasium
19. Science
20. Agriculture
21. Athletic Field #1
22. Athletic Field #2
23. Swimming Pool
24. Stadium
25. Tennis Courts
26. Champion Building

Security Call Box
Parking
Parking Dispenser
Handicapped Parking
Reserved Parking
Visitor Parking
Telephone
Bike Parking