



**MODESTO JUNIOR COLLEGE  
CATALOG ADDENDUM  
VERSION 2  
SUMMER 2017 - SPRING 2018**

435 College Avenue,  
Modesto, California 95350  
[www.mjc.edu](http://www.mjc.edu)

Modesto Junior College is a college of the  
Yosemite Community College District, and accredited by the  
Accrediting Commission for Community and Junior Colleges (ACCJC)  
of the Western Association of Schools and Colleges (WASC)  
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ACCJC/WASC is an institutional accrediting body recognized by the Commission on  
Recognition of Postsecondary Accreditation and the U.S. Department of Education.

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Addendum Version 2 to the 2017-2018 Modesto Junior College Catalog contains important changes and additions.  
This addendum was updated after the 2017-2018 Modesto Junior College Catalog went to press in April.*

**2017-2018 Catalog Page: 4**  
**Comments: Revised Administrators**

**FREQUENTLY CALLED NUMBERS**

*Area code 209*

<i>ASMJC (Student Government) .....</i>	<i>575-6700</i>	<i>Counseling Center.....</i>	<i>575-6080</i>	<i>Library &amp; Learning Center .....</i>	<i>575-6346 (East)</i>
<i>Athletics .....</i>	<i>575-6269</i>	<i>Disability Services .....</i>	<i>575-6225</i>		<i>575-6676 (West)</i>
<i>Bookstore .....</i>	<i>575-6840</i>	<i>Enrollment Services .....</i>	<i>575-6853</i>	<i>President's Office.....</i>	<i>575-6067</i>
<i>Business Services.....</i>	<i>575-6829</i>	<i>Financial Aid.....</i>	<i>575-7700</i>	<i>Testing .....</i>	<i>575-7728</i>
<i>Campus Safety .....</i>	<i>575-6351</i>	<i>Health Services.....</i>	<i>575-6037 (East)</i>	<i>Veterans Office .....</i>	<i>575-6017</i>
<i>Career Development &amp; Transfer Center.....</i>	<i>575-6239</i>		<i>575-6360 (West)</i>	<i>VP of Student Services .....</i>	<i>575-6060</i>
<i>Community Education .....</i>	<i>575-6063</i>	<i>Helpdesk (PIRATES NET).....</i>	<i>575-7900</i>	<i>VP of Instruction .....</i>	<i>575-6058</i>



**YOSEMITE COMMUNITY COLLEGE DISTRICT  
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Executive Vice Chancellor, Fiscal Services
- Gina Leguria  
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- Jennifer Hamilton, Ph.D.  
Vice President, Instruction
- James Todd, Ph.D.  
Vice President, Student Services
- Albert Alt, Ed.D.  
Vice President, College & Administrative Services

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## **INSTITUTIONAL LEARNING OUTCOMES (ILO'S)**

Modesto Junior College has five broad Institutional Learning Outcomes with distinct characteristics:

### **COMMUNICATION**

Students will generate and develop capabilities for creative expression and effective communication. Students will be able to:

- Articulate ideas through written, spoken, and visual forms appropriately and effectively in relation to a given audience and social context.
- Utilize interpersonal and group communication skills, especially those that promote collaborative problem-solving, mutual understanding, and teamwork.
- Mindfully and respectfully listen to, engage with and formally respond to the ideas of others in meaningful ways.
- Plan, design, and produce creative forms of expression through music, speech, and the visual and performing arts.

### **INFORMATION AND TECHNOLOGY LITERACY**

Students will develop skills to effectively search for, critically evaluate, and utilize relevant information while demonstrating technological literacy. Students will be able to:

- Effectively access information and critically evaluate sources of information.
- Analyze, synthesize and apply information practically and ethically within personal, professional and academic contexts.
- Identify, utilize and evaluate the value of a variety of technologies relevant to academic and workplace settings.

### **PERSONAL AND PROFESSIONAL DEVELOPMENT**

Students will develop skills that aid in lifelong personal growth and success in the workplace. Students will be able to:

- Identify and assess individual values, knowledge, skills, and abilities in order to set and achieve lifelong personal, educational, and professional goals.
- Practice decision-making that builds self-awareness, fosters self-reliance, and nourishes physical, mental, and social health.

- Apply skills of cooperation, collaboration, negotiation, and group decision-making.
- Exhibit quality judgment, dependability, and accountability while maintaining flexibility in an ever-changing world.

### **CREATIVE, CRITICAL AND ANALYTICAL THINKING**

Students will develop critical and analytical thinking abilities, cultivate creative faculties that lead to innovative ideas, and employ pragmatic problem-solving skills. Students will be able to:

- Analyze differences and make connections among intellectual ideas, academic bodies of knowledge and disciplinary fields of study.
- Develop and expand upon innovative ideas by analyzing current evidence and praxis, employing historical and cultural knowledge, engaging in theoretical inquiry, and utilizing methods of rational inference.
- Utilize the scientific method and solve problems using qualitative and quantitative data.
- Demonstrate the ability to make well-considered aesthetic judgments.

### **CULTURAL LITERACY AND SOCIAL RESPONSIBILITY**

Students will be prepared to engage a global world while exhibiting a broad sense of diversity, cultural awareness, social responsibility and stewardship. Students will be able to:

- Interpret and analyze ideas of value and meaning exhibited in literature, religious practices, philosophical perspectives, art, architecture, music, language, performance and other cultural forms.
- Describe the historical and cultural complexities of the human condition in its global context, including the emergence and perpetuation of inequalities and the interplay of social, political, economic and physical geographies.
- Analyze and evaluate the value of diversity, especially by collaborating with people of different physical abilities and those with distinct linguistic, cultural, religious, lifestyle, national, and political backgrounds.
- Demonstrate a pragmatics of ethical principles, effective citizenship, and social responsibility through cross-cultural interactions, volunteerism, and civic engagement.

## **BACHELOR'S DEGREE PROGRAM OFFERED**

Modesto Junior College is one of fifteen California Community Colleges that will offer a bachelor's degree program. Beginning in fall 2017, MJC will offer its first Respiratory Care Bachelor's Degree Program. The annual application period is February 1-28. A new cohort will begin every fall through 2021. See page 239 of the 2017-2018 catalog for program requirements.

The goal of the Respiratory Care Bachelor's Degree program is to enhance the professional expertise of respiratory care practitioners. Students will acquire advanced knowledge and skills in neonatal, pediatric and adult critical care and will be prepared to serve in leadership, educational, and case management roles related to patient care in the field of respiratory care. The program graduates will also be prepared to participate as multidisciplinary team members in healthcare settings serving the community's diverse patient population.

## Degrees, Certificates, and Skills Recognitions Offered at MJC

TITLE OF AWARD	AWARD TYPE	PG.	TITLE OF AWARD	AWARD TYPE	PG.	TITLE OF AWARD	AWARD TYPE	PG.	
Accounting	C AS	153	Communication Studies	C AA AAT	181	Kinesiology (Formerly Physical Education)	AA AAT	228	
Accounting Clerk	C	153	Computer Applications Specialist	C	183	Landscape and Park Maintenance	C	194	
Administration of Justice	AS	154	Computer Electronics	C AS	183	Landscape Design	C	195	
Adv. Heavy Equipment Technician	C	158	Computer Graphics Applications	C AS	184	Language and Rationality	AA/GSE	200	
Agricultural Environmental Science	C AS	-	Computer Information Systems	AS	185	Language Studies	AA/UPE	207	
Agriculture Animal Sciences		AST	Computer Network Administration	C	218	Logistics and Supply Chain Management	SR C AS	208	
Agriculture Business	AS	155	Computer Network Technician	C	218	Logistics Associate	SR	209	
Agriculture Plant Science		AST	Computer Programming Specialist	C	185	Machine Tool Technology	AS	210	
Agriculture-Sales, Service (C: Tech)	C AS	157	Computer Science	AS	186	Machine Tool Technology 1	C	210	
Agriculture/Agricultural Science	AS AS/UPE	161	Crop Science	AS	230	Maintenance Machinist 1	SR	211	
Animal Science	AS	162	CSU-GE Transfer Pattern	C	198	Maintenance Machinist 2	C	211	
Anthropology		AAT	Dairy Science	AS	162	Marketing	AS	212	
Art	AA	168	Dance	AA	187	Mathematics		AST	
Art: History		AAT	Earth Science		188	Mechanized Agriculture	C AS	158	
Art: Studio Arts		AAT	Electrical Installer	SR	190	Medical Assisting	C AS	213	
Artificial Insemination Technician	C	164	Electrician	C	189	Music	AA AAT	215	
Athletic Training/Sports Medicine	AS	169	Elementary Teacher Ed		AAT	190	Natural Sciences	AA/GSE	200
Autobody/Collision Repair	C	169	Emergency Medical Technician(EMT)	SR	191	Nursery Production	C	195	
Autobody/Refinishing	SR AS	169	English		AAT	192	Nurse Assistant	SR	223
Automation Technician	SR	190	English for Life & Work: Elementary	CC	-	Nursing (RN)	AS	218	
Automotive Brakes & Suspension	C	170	English for Life & Work: Proficient	CC	-	Nursing, LVN to ADN (RN) Advanced Placement Pathway	AS	218	
Automotive Diagnosis	C	171	Environmental Horticultural Science	AS	193	Office Administration	C AS	224	
Automotive Engines & Transmissions	C	171	Equine Science	C	164	Office Computer Applications	C	225	
Automotive Service	C	171	Ethnic Studies	SR	195	Office Support	C	226	
Automotive Technician	AS	170	Fire Science	C AS	196	Philosophy		AAT	
Basic Heavy Equipment Technician	C	158	Fire Science (Fire Academy)	SR	196	Photography	AA	168	
Biological Sciences	AS/UPE	172	Fruit Science	AS	231	Physics		AST	
Bookkeeping	C AS	172	Geography		AAT	202	Political Science		AAT
Business Administration	AS	173	Geology		AST	203	Poultry Science	AS	163
Business Operations: Management	AS	175	Gerontology	SR	204	Professional Selling	C	233	
Chemistry	AS/UPE	AST	Heavy Machinery Management	C	159	Psychology		AAT	
Chemical Dependency Counseling	C AA	177	History		AAT	204	Psychosocial Rehabilitation	SR	234
Child Development	AS	178	Humanities		AA/UPE	199	Real Estate (C: Real Estate Broker SR: Real Estate Salesperson)	SR C AS	235
Child Devt. Assoc. Teacher	C	179			AA/GSE	206	Recording Arts	SR	236
Child Devt. Teacher	C	181	Human Services	C AA	205	Records Management/Data-Entry	C	226	
Child Devt. Master Teacher	C	180	IGETC Transfer Pattern	C	198	Respiratory Care	AS	BS	
Child Devt. Site Supervisor	C	180	Industrial Electronics	C AS	189	Retail Management (WAFC)	C	240	
Child Devt. Early Childhood Edu		AST	International Business	C	207	Social and Behavioral Sciences	AA/GSE	201	
Child Devt. Early Interventionist	C	179	Irrigation Construction & Installation	C	159	Sociology		AAT	
Clerical	C AS	224	Irrigation Design	C	159	Soil Science	AS	231	
CNC Operator	SR	210	Irrigation Management	C	160	Spanish		AAT	
CNC Programmer	SR	211	Irrigation Technology	C AS	157	Supervisory Management	C AS	242	
Commercial Floristry Technician	C	194							

Continued...

## Degrees, Certificates, and Skills Recognitions Offered at MJC

<b>TITLE OF AWARD</b>	<b>AWARD TYPE</b>	<b>PG.</b>
Supervisory Mgmt in Public Safety	SR	155
Theatre	AA	243
Theatre Arts	AAT	243
Theatre: Design and Technical	SR	244
Theatre: Performance	SR	245
Veterinary Technician	C	165
Veterinary Technician (Large Animal)	C	165
Veterinary Technology	AS	163
Welding	AS	245
Welding: Design & Fabrication	SR	246
Welding: Gas Metal Arc Welding and Gas Tungsten Arc Welding	SR	246
Welding: Manufacturing Technology (Interdisciplinary)	C	246
Welding: Pipe Welding	SR	247

<b>LEGEND</b>	
AA:	Associate in Arts Degree
AAT:	Associate in Arts Degree for Transfer
AS:	Associate in Science Degree
AST:	Associate in Science Degree for Transfer
BS:	Bachelor of Science
GSE:	General Studies Emphasis (Non-transfer)
UPE:	University Preparation Emphasis (for Transfer)
C:	Certificate of Achievement
CC:	Certificate of Completion (Non-Credit)
SR:	Skills Recognition

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**Comments: Updated Associate Degrees for Transfer at MJC Table**

### ASSOCIATE DEGREES FOR TRANSFER AT MJC\*

ADMINISTRATION OF JUSTICE (A.S.-T)	KINESIOLOGY (A.A.-T)
Agriculture Animal Sciences (A.S.-T)	MATHEMATICS (A.S.-T)
Agriculture Business (A.S.-T)	MUSIC (A.A.-T)
Agriculture Plant Science (A.S.-T)	PHILOSOPHY (A.A.-T)
ANTHROPOLOGY (A.A.-T)	PHYSICS (A.S.-T)
ART HISTORY (A.A.-T)	POLITICAL SCIENCE (A.A.-T)
BUSINESS ADMINISTRATION (A.S.-T)	PSYCHOLOGY (A.A.-T)
CHEMISTRY (A.S.-T)	SOCIOLOGY (A.A.-T)
COMMUNICATION STUDIES (A.A.-T)	SPANISH (A.A.-T)
COMPUTER SCIENCE (A.S.-T)	STUDIO ARTS (A.A.-T)
EARLY CHILDHOOD EDUCATION (A.S.-T)	THEATRE ARTS (A.A.-T)
ELEMENTARY TEACHER EDUCATION (A.A.-T)	
ENGLISH (A.A.-T)	
GEOGRAPHY (A.A.-T)	
GEOLOGY (A.S.-T)	
HISTORY (A.A.-T)	

*\*Reflects CCCC approved degrees as of 8/17/2017*



# CSU-GE Transfer Pattern 2017-2018

MJC's General Education Pattern for Transfer to the California State University System

The CSU-GE pattern allows California community college transfer students to fulfill lower-division general education requirements for all California State University (CSU) campuses. The 39-unit curricular pattern has five areas of concentration (Areas A-E). The CSU History, Constitution, and American Ideals requirement may also be completed at MJC prior to transfer. Courses in Area A1, A2, A3 and B4 must be passed with a grade of "C" or higher, "P" or "CR". Students are encouraged to meet with a counselor or enroll in a Guidance class to ensure educational goals are being met. To request complete or partial area CSU-GE Certification, visit the Transcript Request page, or the Records Office, Student Services Bldg., Rm. 102. Also, students should review important information on CSU Upper Division Admissions Requirements on p. 92, and information on Certification of general education, page 102.\*

## AREA A English Language, Communication, and Critical Thinking

Complete one course in each category for a total of nine (9) units.

### A.1 ORAL COMMUNICATION

- COMM 100 Fund of Public Speaking (3)(SU14)
- COMM 102 Intro to Human Comm (3)(SU14)
- COMM 110 Persuasion (3)(SU14)

### A.2 WRITTEN COMMUNICATION

- ENGL 100 Intnsv Rdng, Wrting, & Rsnng (5)(SU17)
- ENGL 101 Comp & Reading (3)

### A.3 CRITICAL THINKING

- COMM 104 Argumentation (3)(SU14)
- COMM 107 Intro to Debate (3)(SU14)
- CSCI 203 Symbolic Logic (3)(SU14)
- ENGL 103 Adv Comp & Crit Thinking (3)
- PHILO 103 Symbolic Logic (3)
- PHILO 105 Critical Reas & Analytic Writing (3)
- PHILO 107 Philo of Sci (3)(F93)
- READ 184 Critical Reading (3)(SU17)

## AREA B Scientific Inquiry and Quantitative Reasoning

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.

### B.1 PHYSICAL SCIENCE

- ASTRO 160 Intro to Modern Astro (3)
- ASTRO 160-151\* Intro to Mod Astro/Lab (3,1)
- CHEM 101\* Gen Chemistry 1 (5)
- CHEM 102\* Gen Chemistry 2 (5)
- CHEM 112\* Org Chemistry 1 (5)(F91)
- CHEM 113\* Org Chemistry 2 (5)(F91)
- CHEM 122\* Struct & React: Organic Chem 1 (4)(SU15)
- CHEM 123\* Struct & React: Organic Chem 2 (4)(SU15)
- CHEM 142 Pre-Gen Chemistry (3)
- CHEM 143\* Intro College Chmstry (4)
- CHEM 144\* Fund of Org & Biochem (4)
- CHEM 150 Explor Our Chem Environ (3)
- CHEM 150-164\* Explor Our Chem Environ/Lab(3,1)(F07)
- EASCI 161\* Earth Sci (4)
- EASCI 162\* Intro to Oceanography (4)(SU08)
- GEOG 101/111 Physical Geography/Lab (3,1)(F95)
- GEOL 160 Intro to Geology (3)(F95)
- GEOL 161\* Physical Geology (4)(F90)
- GEOL 165 Geology of California (3)
- GEOL 166\* Historical Geology (4)(F90)
- METEO 161\* Intro to Meteorology (4)(SU08)
- NR 200\* Soils (3)(F02)(\*F04)
- PHSCI 180\* Concept Phys Sci: Hands on Appr. (4)(SU15)
- PHYS 101\* Gen Phys: Mechanics (4)
- PHYS 102\* Gen Phys: Waves, Therm., Optics (4)
- PHYS 103\* Gen Phys: Elect, Mag & Mod Phys (4)
- PHYS 142\* Mech, Heat & Waves (4)
- PHYS 143\* Elect, Mag, Opt, Atm, & Nuclr (4)
- PHYS 160 Descrip Intro to Phys (3)
- PHYS 165\* Intro Phys (4)(SU16)
- PHYS 180\* Cncptl Phys: Hands-on (4)(SU08)

### B.2 LIFE SCIENCE

- ANAT 125\* Human Anatomy (4)
- ANSC 200 Intro to Animal Sci (3)(S06)
- ANTHR 101\* Biological Anthro (3)(F90)
- ANTHR 101-105\*\* Biol Anthro w/Lab (3,1)(F90, F98)
- AP 150\* Integrative Anat and Physio(5)(F96)
- BIO 101\* Biological Principles (4)(SU15)
- BIO 111\* Gen Biology (4)
- BIO 114\* Gen Ecology (4)(SU10)
- BIO 115 Genetics, Evolution & Society (3)(F97)
- BIO 116\* Bio: A Human Prspctv (4)(SU10)
- BIO 140\* Intro to Marine Bio (4)
- BIO 145\* Intro to Freshwater Bio (4)
- BOT 101\* Gen Botany (4)
- BOT 110\* Plant Biology (3)(F15)
- ENSCI 108 Environ Conservation (3)(F97)
- MICRO 101\* Microbiology (4)(F94)
- PHYSO 101\* Intro Human Physio (4)
- PHYSO 103 Intro to NeuroSci (3)(SU08)
- PLSC 200 Intro to Plant Sci (3)(SU04)
- PSYCH 103 Intro to NeuroSci (3)(F90)
- ZOOL 101\* Gen Zoology (4)

### B.3 LABORATORY ACTIVITY

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

### B.4 MATHEMATICS AND QUANTITATIVE REASONING

- CSCI 204 Discrete Struct for Comp Sci (3)(SU15)
- MATH 101 Math Ideas & Applications (3)(F90)
- MATH 105 Structure of Mathematics 1 (3)
- MATH 106 Structure of Mathematics 2 (3)(F93)
- MATH 111 Appl College Algebra (3)(F02)
- MATH 121 Pre-Calculus 1 (5)(F98)
- MATH 122 Pre-Calculus 2 (5)(F98)
- MATH 130 Finite Mathematics (3)
- MATH 134 Elementary Statistics (4)
- MATH 138 Calculus for Bus/Soc Sci (3)
- MATH 161 Trigonometry (4)(SU17)
- MATH 162 Precalculus (4)(SU17)
- MATH 171 Calculus: 1st Course (4)
- MATH 172 Calculus: 2nd Course (4)
- MATH 173 Calculus: 3rd Course (4)(SU07)
- MATH 174 Intro to Diff Eqtn & Lnr Alg (5)(S07)
- SOCIO 105 Intro to Stats / Soc & Beh Sci (3)(F15)

## AREA C Arts and Humanities

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.

### C.1 ARTS (ARTS, DANCE, MUSIC, THEATRE)

- ART 102 Intro to Comp Graphics (3)(F95)
- ART 120 Basic Drawing 1(3)
- ART 140 Sculpture 1(3)
- ART 160 Appreciation of Art (3)
- ART 162 Hstry of Renaissance Art (3)(F92)
- ART 163 Hstry of Modern Art (3)(F94)
- ART 164 Hstry of Art 1: Prehist to Gothic (3)
- ART 165 Hstry of Art 2: Ren to Contemp(3)
- ART 168 Hstry of Photography (3)
- ART 169 Surv of Asian Art (3)(F99)
- ART 170 Basic Photography (3)(F89)
- CMPGR 202 Intro to Comp Graphics (3)(F95)

### C.1 ARTS (ARTS, DANCE, MUSIC, THEATRE)

(cont'd)

- COMM 120 Oral Interpretation (3)(SU14)
- COMM 122 Intro to Readers' Thtr (3)(SU14)
- COMM 123 Storytelling (3)(SU14)
- COMM 124 Adv Readers' Thtr (3)(SU14)
- COMM 132\* Intro to Mass Comm (3)(SU16)
- DANCE 102 Intro to World Dance (3)(SU16)
- ENGL 161 Film Appreciation (3)(SU16)
- MUSG 101 Music Appreciation (3)(SU09)
- MUSG 102 Intro to World Music (3)(SU09)
- MUSG 111 Intro to Amer Pop Music (3)(SU09)
- MUSG 121 Hstry of Western Music 1(3)(SU09)
- MUSG 122 Hstry of Western Music 2 (3)(SU09)
- MUST 121 Music Theory 1 (3)(SU09)
- MUST 122 Music Theory 2 (3)(SU09)
- MUST 123 Music Theory 3 (3)(SU09)
- MUST 124 Music Theory 4 (3)(SU09)
- SOCSC 154 Movies with a Message (3)(F07)
- THETR 100 Intro to Thtr Arts (3)
- THETR 122 Intro to Readers' Thetr (3)
- THETR 123 Storytelling (3)(F00)
- THETR 124 Adv Readers' Thtr (3)
- THETR 160 Fund of Acting (3)
- THETR 161 Intrmdt Acting (3)

### C.2 HUMANITIES (LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGES)

- ANTHR 104\* Linguistic Anthro (3)(SU07)
- ENGL 102 Adv Comp & Intro to Lit (3)
- ENGL 105 Creative Writing: Poetry (3)
- ENGL 106 Creative Writing: Short Fiction (3)
- ENGL 112 Intro to Novel & Short Story (3)
- ENGL 114 Intro to Poetry (3)
- ENGL 116 Intro to Drama (3)
- ENGL 131 Intro to World Lit 1 (3)
- ENGL 132 Intro to World Lit 2 (3)
- ENGL 135 Surv Amer Lit to 1850 (3)
- ENGL 136 Surv Amer Lit: 1850 to Prsnt (3)
- ENGL 137 Surv Engl Lit to Late 18th Cntry (3)
- ENGL 138 Surv Engl Lit: Late 18th Cntry-Prsnt (3)
- ENGL 151 Folklore (3)
- ENGL 156 Bible as Lit: Hebrew Canon &... (3)
- ENGL 157 Bible as Lit: New Testament (3)
- ENGL 162 Hstry of Cinema (3)(F03)
- ENGL 163 Intro to Shakespeare (3)
- ENGL 168 Adolescent Lit (3)(F90)
- ENGL 169 Children's Lit (3)
- ENGL 171 Intro African-Amer Lit (3)(F90)
- ENGL 172 Intro to Chicano/a Lit (3)(F93)
- ENGL 173 Intro to Latin Amer Lit (3)(F93)
- ENGL 174 Intro to Mod Asian Lit (3)(S05)

### Legend

- (3) Units earned
- (F97) Students completing this course prior to term (F: Fall, S: Spring, SU: Summer) and year indicated will not be allowed to fulfill this requirement with this course.
- \* Although listed in more than one area, the course may be counted toward only one CSU-GE pattern area.
- \* Denotes a lab science course.
- † At the time of publication the course had approval only for the unit value indicated. See a counselor or ASSIST.org for current approval.



## C.2 HUMANITIES (LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGES)

(cont'd)

ENGL 175 Intro to Women's Lit (3)  
 ENGL 179 Intro Ntv Amer Lit, Myth, Oral Trdn (3)(F95)  
 FREN 101 French 1 (5)  
 FREN 102 French 2 (5)  
 GERM 101 German 1 (5)  
 GERM 102 German 2 (5)  
 HIST 104<sup>^</sup> Western Civ to 1650 (3)(F10)  
 HIST 105<sup>^</sup> Western Civ Since 1650 (3)(F10)  
 HIST 106<sup>^</sup> World Civ to the 16th Cent (3)(S07)  
 HIST 107<sup>^</sup> World Civ from the 16th Cent (3)(F10)  
 HUMAN 101 Intro to the Humanities (3)  
 HUMAN 105 Early Humanistic Trad (3)(F89)  
 HUMAN 106 Humanities in Modern World (3)(F89)  
 HUMAN 110 East Meets West (3)(F87)  
 HUMAN 130 Intro to Western Religions (3)(F03)  
 HUMAN 140 Intro to World Mythology (3)(S06)  
 ITAL 101 Italian 1 (5)(F07)  
 PHILO 101 Philosophy (3)  
 PHILO 111 Ethics: Theory & Appl (3)  
 PHILO 113 Philo of Art (3)(SU08)  
 PHILO 115 Religion: Philo & Comp Inq (3)  
 PHILO 120 Hstry of Philo: Ancient (3)  
 PHILO 121 Hstry of Philo: Modern (3)  
 PHILO 123 20th Cent Philo (3)(F02)  
 PHILO 135 Enviroanal Ethics (3)(F08)  
 PHILO 140 Philo & Film (3)(F93)  
 SIGN 125 ASL: Begin Comm w/Deaf (3)(F95)  
 SIGN 126 ASL: Interm Comm w/Deaf (3)(F95)  
 SIGN 127 ASL: Adv Comm w/Deaf (3)(F95)  
 SPAN 101 Spanish 1 (5)  
 SPAN 102 Spanish 2 (5)  
 SPAN 103 Spanish 3 (4)  
 SPAN 104 Spanish 4 (4)  
 SPAN 109 Span for Span Spkrs 1 (5)(SU07)  
 SPAN 110 Span for Span Spkrs 2 (5)(S07)  
 SPAN 112 Intro to Chicano/a Lit (3)(F90)  
 SPAN 173 Surv of Latin Amer Lit (3)(S06)

## AREA D Social Sciences

Nine (9) units from at least two subareas (D.0-D.9). Courses marked with <sup>^</sup> may be used in one area only.

### D.0 SOCIOLOGY AND CRIMINOLOGY

ADJU 203 Concepts of Criminal Law (3)(F11)  
 SOCIO 101 Intro to Sociology (3)  
 SOCIO 102 Social Problems in US (3)(F01)  
 SOCIO 125 Sociology of the Family (3)  
 SOCIO 150<sup>^</sup> Ethnic & Cultural in Amer (3)  
 SOCIO 154<sup>^</sup> Afri-Amer Cultural & Communities (3)  
 SOCIO 156<sup>^</sup> Mexican Cultural in the US (3)  
 SOCSC 105<sup>^</sup> Women's Studies (3)(F01)

### D.1 ANTHROPOLOGY & ARCHAEOLOGY

ANTHR 101<sup>^</sup> Biological Anthro (3)(F90)  
 ANTHR 102 Cultural Anthro (3)  
 ANTHR 104<sup>^</sup> Linguistic Anthro (3)(SU07)  
 ANTHR 130 Arch & Cultural Prehstry (3)  
 ANTHR 140 Magic, Witchcraft & Religion (3)(F97)  
 ANTHR 150<sup>^</sup> Native People of N. Amer (3)

### D.2 ECONOMICS

AGEC 210 Elem of Ag Econ (3)(F98)  
 ECON 101 Principles of MacroEcon (3)  
 ECON 102 Principles of MicroEcon (3)  
 ECON 115<sup>^</sup> Econ Hist of the US (3)  
 GEOG 105<sup>^</sup> Economic Geography (3)(F00)  
 HIST 115<sup>^</sup> Econ Hist of the US (3)

## D.3 ETHNIC STUDIES

ANTHR 150<sup>^</sup> Native People of N. Amer (3)(F11)  
 COMM 130<sup>^</sup> Intercultural Comm (3)(SU14)  
 HIST 113<sup>^</sup> Soc/CtrI Hist 20th Cent Amer (3)(F10)  
 HIST 119<sup>^</sup> Soc/CtrI Hist 20th Cent Amer (3)(F10)  
 HIST 125<sup>^</sup> Hist of Mexico (3)(F15)  
 HIST 128<sup>^</sup> The American West (3)(F10)  
 HIST 154<sup>^</sup> Afri Amer thru 19th Cent (3)(F95)  
 HIST 155<sup>^</sup> Afri Amer in 20th/21st Cent (3)(F99)  
 SOCIO 150<sup>^</sup> Ethnic & Cultural in Amer (3)  
 SOCIO 154<sup>^</sup> Afri-Amer Cultural & Communities (3)  
 SOCIO 156<sup>^</sup> Mexican Cultural in the US (3)

## D.4 GENDER STUDIES

HIST 116<sup>^</sup> Women in Amer Hist (3)(F10)  
 PSYCH 111<sup>^</sup> Psych of Gender (3)(S07)  
 SOCSC 105<sup>^</sup> Women's Studies (3)(F01)

## D.5 GEOGRAPHY

GEOG 102 Cultural Geography (3)  
 GEOG 104 California Geography (3)(F08)  
 GEOG 105<sup>^</sup> Economic Geography (3)(F00)  
 GEOG 110 World Regional Geography(3)(F97)

## D.6 HISTORY

ECON 115<sup>^</sup> Econ Hist of the US (3)  
 HIST 101 Hstry of US to 1877 (3)  
 HIST 102 Hstry of US Since 1865 (3)  
 HIST 104<sup>^</sup> Western Civ to 1650 (3)  
 HIST 105<sup>^</sup> Western Civ Since 1650 (3)  
 HIST 106<sup>^</sup> World Civ to the 16th Cent (3)(F02)  
 HIST 107<sup>^</sup> World Civ from the 16th Cent (3)(F02)  
 HIST 112 20th Cent Amer (3)  
 HIST 113<sup>^</sup> Soc/CtrI Hist 20th Cent Amer (3)  
 HIST 115<sup>^</sup> Econ Hist of the US (3)  
 HIST 116<sup>^</sup> Women in Amer Hist (3)  
 HIST 119<sup>^</sup> Soc/CtrI Hist 20th Cent Amer (3)(F00)  
 HIST 125<sup>^</sup> Hist of Mexico (3)  
 HIST 128<sup>^</sup> The American West (3)(F94)  
 HIST 129 Hstry of California (3)  
 HIST 145 Hstry of Latin Amer (3)  
 HIST 154<sup>^</sup> Afri Amer thru 19th Cent (3)(F95)  
 HIST 155<sup>^</sup> Afri Amer in 20th/21st Cent (3)(F99)

## D.7 INTERDISCIPLINARY SOCIAL OR BEHAVIOR SCIENCE

AGGE 146 Ag, Environ & Soc. (3)(F97)  
 CLDDV 103<sup>^</sup> Child Growth & Devt (3)(F09)  
 CLDDV 262 Diversity in Educ Settings (3)(F08)  
 COMM 103 Interpersonal Comm(3)(SU14)  
 COMM 130<sup>^</sup> Intercultural Comm (3)(SU14)  
 COMM 132<sup>^</sup> Intro to Mass Comm (3)(SU16)  
 ENSCI 110 California Water (3)(F98)  
 FAMLF 131<sup>^</sup> Family Relationships (3)(S07)  
 HE 114 Health & Social Justice (3)(SU17)  
 HE 115<sup>^</sup> Drugs, Health, & Society (3)(SU17)\*\*

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

ADJU 201 Intro to Admin of Justice(3)(F11)  
 PHILO 130 Political Theory (3)  
 POLSC 101 Amer Politics (3)  
 POLSC 102 Const & Rights of Pers (3)  
 POLSC 110 International Relations (3)  
 POLSC 111 War/Peace: Lenin to Al Qaeda (3)  
 POLSC 120 Calif Politics & Problems (3)  
 POLSC 130 Political Theory (3)  
 POLSC 131 Amer Political Thought(3)(S07)  
 POLSC 140 Comparative Politics (3)  
 POLSC 180 Human Rights (3)(SU14)

## D.9 PSYCHOLOGY

PSYCH 101 Gen Psych (3)  
 PSYCH 104 Intro to Social Psych (3)(F91)  
 PSYCH 105 Abnormal Psych (3)(S07)  
 PSYCH 111<sup>^</sup> Psych of Gender (3)(S07)

## AREA E: Lifelong Understanding and Self-Development

Veterans or Reservist who submit proof of U.S. Military Basic Training will clear area E for General Education for certified transfer students. File copy of DD214 and other official military documents with MJC Veterans Office.

Complete one course from the following list.

ADJU 217 Substance Abuse (3)(F12)  
 CLDDV 103<sup>^</sup> Child Growth & Devt (3)(F07)  
 COLSK 100 Found for 1st Yr College Succ(3)(SU11)  
 FAMLF 131<sup>^</sup> Family Relationships (3)  
 FDNTR 219 Intro to Nutr Sci (3)(F14)  
 HE 110 Healthful Living (3)  
 HE 111 Women's Health Issues (3)  
 HE 115<sup>^</sup> Drugs, Health, & Society (3)(SU17)  
 PSYCH 110 Human Sexualities (3)  
 PSYCH 130 Personal Adjustment (3)  
 PSYCH 141 Human Lifespan (3)

Total Units required to satisfy  
CSU-GE breadth (Area A - Area E)

**39 units**

## CSU US History, Constitution and American Ideals

An additional 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.

ECON115 Econ Hist of the US (3)(F04)  
 HIST 101 Hstry of US to 1877 (3)(F04)  
 HIST 102 Hstry of US Since 1865 (3)(F04)  
 HIST 112 20th Cent Amer (3)(F04)  
 HIST 113 Soc/CtrI Hist 20th Cent Amer (3)(F04)  
 HIST 115 Econ Hist of the US (3)(F04)  
 HIST 116 Women in Amer Hist (3)(F04)  
 HIST 119 Soc/CtrI Hist 20th Cent Amer (3)(F04)  
 HIST 154 Afri Amer thru 19th Cent (3)(F04)  
 HIST 155 Afri Amer in 20th/21st Cent (3)(F04)

### Group b.

POLSC 101 Amer Politics (3)(F04)  
 POLSC 102 Const & Rights of Pers (3)(F04)  
 POLSC 120 Calif Politics & Problems (3)(F04)

OR

### Group c.

HIST 101 Hstry of US to 1877 (3)(F04)  
 HIST 102 Hstry of US Since 1865 (3)(F04)

\*\*CSU-GE: D7 COURSE APPROVAL RESCINDED BY CSU 2017-18 MID-ACADEMIC YEAR





# IGETC Transfer Pattern 2017-2018

MJC General Education Transfer pattern for California State University or the University of California

IGETC is a general education pattern that, upon full or partial completion (defined as "all but two courses,"), will fulfill some or all lower-division general education requirements at California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out of state universities. IGETC is not the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer. Students should consult with a counselor or complete a Guidance class to ensure educational goals are being met. To request complete or partial IGETC certification visit the Transcript Request page online or the Records Office, Student Services Bldg., Room 102. For more information see "CERTIFICATION OF GENERAL EDUCATION" on 105 in the 2017-2018 MJC catalog. All courses must be passed with a grade of "C" or higher, "P", or "CR"

## AREA 1: English Communication

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.

### Group 1A: English Composition

One course, or three (3) semester units

ENGL 101 Comp & Reading (3)

### Group 1B: Critical Thinking/English Composition

One course, or three (3) semester units

COMM 104 Argumentation (3)(SU14)  
ENGL 103 Adv. Comp & Critical Thinking (3)  
PHILO 105 Critical Reas & Analytic Writing (3)  
PHILO 107 Philo of Sci (3)(F93)

### Group 1C: Oral Communication (CSU ONLY)

One course, or three (3) semester units

COMM 100 Fund of Public Speaking (3)(SU14)  
COMM 102 Intro to Human Comm (3)(SU14)  
COMM 110 Persuasion (3)(SU14)

## AREA 2A: Mathematical Concepts and Quantitative Reasoning

One course, or three (3) semester units

CSCI 204 Discrete Struct for Comp Sci (3)(SU15)  
MATH 101 Math Ideas & Application (3)  
MATH 111 Appl College Algebra (3)(F02)\*\*  
MATH 121 Pre-Calculus 1 (5)(F98)\*\*  
MATH 122 Pre-Calculus 2 (5)(F98)\*\*  
MATH 130 Finite Mathematics (3)  
MATH 134 Elementary Statistics (4)  
MATH 138 Calculus for Bus/Soc Sci (3)\*\*  
MATH 162 Precalculus (4)(SU17)  
MATH 171 Calculus: 1st Course (4)\*\*  
MATH 172 Calculus: 2nd Course (4)  
MATH 173 Calculus: 3rd Course (4)(SU07)  
MATH 174 Intro to Diff Eqtn & Lnr Alg (5)(S07)  
SOCIO 105 Intro to Stats/Soc & Beh Sci (3)(F15)

## AREA 3: Arts and Humanities

For UC and CSU, choose at least three (3) courses/nine (9) semester units. One course must be from 3A and one from 3B, & one additional course from either 3A or 3B.

### Group 3A. Arts

ART 160 Appreciation of Art (3)  
ART 162 Hstry of Renaissance Art (3)(F95)  
ART 163 Hstry of Modern Art (3)(F95)  
ART 164 Hstry of Art 1: Prehist to Gothic (3)  
ART 165 Hstry of Art 2: Ren to Contemp(3)  
ART 168 Hstry of Photography (3)(F12)  
ART 169 Surv of Asian Art (3)(F99)  
COMM 132^ Intro to Mass Comm (3)(SU16)  
DANCE 102 Intro to World Dance (3)(SU16)  
ENGL 161 Film Appreciation (3)(SU16)  
MUSG 101 Music Appreciation (3)(SU09)  
MUSG 102 Intro to World Music (3)(SU09)  
MUSG 111 Intro to Amer Pop Music (3)(SU09)  
MUSG 121 Hstry of Western Music 1(3)(SU09)  
MUSG 122 Hstry of Western Music 2 (3)(SU09)  
MUST 121 Music Theory 1 (3)(SU09)  
MUST 122 Music Theory 2 (3)(SU09)  
MUST 123 Music Theory 3 (3)(SU09)

**IGETC IS NOT RECOMMENDED FOR CERTAIN COLLEGES AND MAJORS. PLEASE SEE "IGETC CONSIDERATIONS" ON PAGE 100 OF THE 2017-2018 CATALOG.**

MUST 124 Music Theory 4 (3)(SU09)  
THETR 100 Intro to Thtr Arts (3)

### Group 3B. Humanities

ANTHR 104^ Linguistic Anthro (3)(SU07)  
ENGL 102 Adv Comp & Intro to Lit (3)(S07)  
ENGL 112 Intro to Novel & Short Story (3)  
ENGL 114 Intro to Poetry (3)  
ENGL 116 Intro to Drama (3)  
ENGL 131 Intro to World Lit 1 (3)  
ENGL 132 Intro to World Lit 2 (3)  
ENGL 135 Surv Amer Lit to 1850 (3)  
ENGL 136 Surv Amer Lit: 1850 to Prsnt (3)  
ENGL 137 Surv Engl Lit to Late 18th Cntry (3)  
ENGL 138 Surv Engl Lit: Late 18th Cntry-Prsnt (3)  
ENGL 151 Folklore (3)(F01)  
ENGL 156 Bible as Lit: Hebrew Canon &... (3)  
ENGL 157 Bible as Lit: New Testament (3)  
ENGL 162 Hstry of Cinema (3)(F03)  
ENGL 163 Intro to Shakespeare (3)  
ENGL 168 Adolescent Lit (3)(S07)  
ENGL 169 Children's Lit (3)(S07)  
ENGL 171 Intro African-Amer Lit (3)  
ENGL 172 Intro to Chicano/a Lit (3)(F95)  
ENGL 173 Intro to Latin Amer Lit (3)(F95)  
ENGL 174 Intro to Mod Asian Lit (3)(S05)  
ENGL 175 Intro to Women's Lit (3)  
ENGL 179 Intro Ntv Amr Lit, Myth, Oral Trdtn (3)(F99)  
FREN 102 French 2 (5)(S07)  
GERM 102 German 2 (5)(S07)  
HIST 104 ^ Western Civ to 1650 (3)(F10)  
HIST 105 ^ Western Civ Since 1650 (3)(F10)  
HIST 106^ World Civ to the 16th Cent (3)(S07)  
HIST 107 ^ World Civ from the 16th Cent (3)(F10)  
HUMAN 101 Intro to the Humanities (3)  
HUMAN 105 Early Humanistic Trad (3)  
HUMAN 106 Humanities in Modern World (3)  
HUMAN 110 East Meets West (3)  
HUMAN 130 Intro to Western Religions (3)(S03)  
HUMAN 140 Intro to World Mythology (3)(S06)  
PHILO 101 Philosophy (3)  
PHILO 111 Ethics: Theory & Appl (3)  
PHILO 113 Philo of Art (3)(SU08)  
PHILO 115 Religion: Philo & Comp Inq (3)  
PHILO 120 Hstry of Philo: Ancient (3)  
PHILO 121 Hstry of Philo: Modern (3)  
PHILO 123 20th Cent Philo (3)(F02)  
PHILO 135 Environl Ethics (3)(F09)  
PHILO 140 Philo & Film (3)(S07)  
SIGN 126 ASL: Interm Comm w/Deaf (3)(F97)  
SIGN 127 ASL: Adv Comm w/Deaf (3)(F97)  
SPAN 102 Spanish 2 (5) (F08)\*\*  
SPAN 103 Spanish 3 (4)(F92)  
SPAN 104 Spanish 4 (4)(F92)  
SPAN 112 Intro to Chicano/a Lit (3)  
SPAN 173 Surv of Latin Amer Lit (3)(S06)

ANTHR 104^ Linguistic Anthro (3)(SU07)  
ANTHR 130 Arch & Cultural Prehstry (3)  
ANTHR 140 Magic, Witchcraft & Religion (3)(S07)  
ANTHR 150 ^ Native People of N. Amer (3)

### Group 4B. Economics

AGEC 210 Elem of Ag Econ (3)(F11)  
ECON 101 Principles of MacroEcon (3)  
ECON 102 Principles of MicroEcon (3)  
ECON 115^ Econ Hist of the US (3)  
GEOG 105^ Econ Geography (3)(F14)  
HIST 115^ Econ Hist of the US (3)

### Group 4C. Ethnic Studies

ANTHR 150^ Native People of N. Amer (3)(F11)  
COMM 130^ Intercultural Comm (3)(SU14)  
HIST 113^ Soc/Ctrl Hist 20th Cent Amer (3)(F10)  
HIST 119^ Soc/Ctrl Hist 20th Cent Amer (3)(F10)  
HIST 125^ Hist of Mexico (3)(F15)  
HIST 128^ The American West (3)(F10)  
HIST 154^ Afri Amer thru 19th Cent (3)(F10)  
HIST 155^ Afri Amer in 20th/21st Cent (3)(F02)

### Group 4D. Gender Studies

HIST 116 ^ Women in Amer Hist (3)(F10)  
PSYCH 111^ Psych of Gender (3)(S07)  
SOCSC 105^ Women's Studies (3)(F12)

### Group 4E. Geography

GEOG 102 Cultural Geography (3)  
GEOG 104 California Geography (3)(F08)  
GEOG 105^ Economic Geography (3)(S00)  
GEOG 110 World Regional Geography (3)(S07)

### Group 4F. History

ECON 115^ Econ Hist of the US (3)  
HIST 101 Hstry of US to 1877 (3)  
HIST 102 Hstry of US Since 1865 (3)  
HIST 104^ Western Civ to 1650 (3)  
HIST 105^ Western Civ Since 1650(3)  
HIST 106^ World Civ to the 16th Cent (3)(F02)  
HIST 107^ World Civ from the 16th Cent (3)(F02)  
HIST 112 20th Cent Amer (3)  
HIST 113^ Soc/Ctrl Hist 20th Cent Amer (3)  
HIST 115^ Econ Hist of the US (3)  
HIST 116^ Women in Amer Hist (3)  
HIST 119^ Soc/Ctrl Hist 20th Cent Amer (3)(F00)  
HIST 125^ Hstry of Mexico (3)  
HIST 128^ The American West (3)(F95)  
HIST 129 Hstry of California (3)  
HIST 145 Hstry of Latin Amer (3)  
HIST 154^ Afri Amer thru 19th Cent (3)(F99)  
HIST 155^ Afri Amer in 20th/21st Cent (3)(F02)

### Group 4G. Interdisciplinary, Social & Behavioral Sciences

CLDDV 103 Child Growth & Devt (3)(F09)  
COMM 103 Interpersonal Comm (3)(SU14)  
COMM 130^ Intercultural Comm(3)(SU14)  
COMM 132^ Intro to Mass Comm (3)(SU16)  
ENSCI 110 California Water (3)(F98)  
FAMLF 131 Family Relationships (3)(S07)

### Group 4H. Political Science, Government & Legal Institutions

ADJU 201 Intro to Admin of Justice (3)(F11)  
PHILO 130 Political Theory (3)  
POLSC 101 Amer Politics (3)  
POLSC 102 Const & Rights of Pers (3)  
POLSC 110 International Relations (3)  
POLSC 111 War/Peace: Lenin to Al Qaeda (3)  
POLSC 120 Calif Politics & Problems (3)

## AREA 4: Social and Behavioral Sciences

At least three courses/nine (9) semester units in a minimum of two disciplines.

### Group 4A. Anthropology & Archaeology

ANTHR 101^ Biological Anthro (3)(F13)  
ANTHR 102 Cultural Anthro (3)

## Group 4H. Political Science, Government & Legal Institutions (continued)

POLSC 130 Political Theory (3)  
POLSC 131 Amer Political Thought (3)(S07)  
POLSC 140 Comparative Politics (3)  
POLSC 180 Human Rights (3)(SU14)

## Group 4I. Psychology

PSYCH 101 Gen Psych (3)  
PSYCH 104 Intro to Social Psych (3)  
PSYCH 105 Abnormal Psych (3)(S07)  
PSYCH 110 Human Sexualities (3)  
PSYCH 111^ Psych of Gender (3)(S07)  
PSYCH 141 Human Lifespan (3)

## Group 4J. Sociology & Criminology

ADJU 203 Concepts of Criminal Law (3)(F11)  
SOCIO 101 Intro to Sociology (3)  
SOCIO 102 Social Problems in US (3)(F99)  
SOCIO 125 Sociology of the Family (3)  
SOCIO 150 Ethnic & Cultural in Amer (3)  
SOCIO 154 Afri-Amer Cultural & Communities (3)  
SOCIO 156 Mexican Cultural in the US (3)  
SOCSC 105^ Women's Studies (3)(S01)

## AREA 5: Physical and Biological Sciences

Select at least two courses (7-9 semester units). Choose two courses, one from 5A and one from 5B. In order to fulfill 5C, one course from 5A or 5B must be taken as a laboratory (courses indicated with an asterisk (\*)).

### 5A. Physical Science

ASTRO 160 Intro to Modern Astro (3)  
ASTRO 160/151\*Intro to Mod Astro w/Lab (3,1)  
CHEM 101\* Gen Chemistry 1 (5)  
CHEM 102\* Gen Chemistry 2 (5)  
CHEM 112\* Org Chemistry 1 (5)  
CHEM 113\* Org Chemistry 2 (5)  
CHEM 122\* Struct & React: Organic Chem 1 (4)(SU15)  
CHEM 123\* Struct & React: Organic Chem 2 (4)(SU15)  
CHEM 142 Pre-Gen Chemistry (3)  
CHEM 143\* Intro College Chemistry (4)  
CHEM 144\* Fund of Org & Biochem (4)  
CHEM 150 Explor Our Chem Environ (3)(F09)  
CHEM 150/164\*Explor Our Chem Environ/Lab (3,2)(F09, F07)  
EASCI 161\* Earth Sci (4)  
EASCI 162\* Intro to Oceanography (4)(SU08)  
GEOG 101/111 Physical Geography/Lab (3,1)  
GEOL 160 Intro to Geology (3)(F99)  
GEOL 161\* Physical Geology (4)  
GEOL 165 Geology of California (3)  
GEOL 166\* Historical Geology (4)  
METEO 161\* Intro to Meteorology (4)(SU09)  
NR 200\* Soils (3)(F09)  
PHSCI 180\* Concept Phys Sci: Hands on Appr. (4)(SU15)  
PHYS 101\* Gen Phys: Mechanics (4)  
PHYS 102\* Gen Phys: Waves, Therm, Optics (4)  
PHYS 103\* Gen Phys: Elect, Mag & Mod Phys (4)  
PHYS 142\* Mech, Heat & Waves (4)  
PHYS 143\* Elect, Mag, Opt, Atm, & Nuclr (4)(SU16)  
PHYS 160 Descrip Intro to Phys (3)  
PHYS 165\* Intro Phys (4) (SU16)  
PHYS 180\* Cncptl Phys: Hands-on (4)(SU08)

### 5B. Biological Sciences

ANAT 125\* Human Anatomy(4)(SU16)  
ANSC 200 Intro to Animal Sci (3)(S06)  
ANTHR 101\* Biological Anthro (3)  
ANTHR 101/105\* Biological Anthro w/ Lab (3,1)(F91,F98)  
AP 150\* Integrative Anat and Physio (5)(S07)  
BIO 101\* Biological Principles (4)(SU15)  
BIO 111\* Gen Biology (4)  
BIO 114\* Gen Ecology(4)(F10)  
BIO 115 Genetics, Evolution & Society (3)(S07)  
BIO 116\* Bio: A Human Prspctv (4)(F10)  
BIO 140\* Intro to Marine Bio (4)  
BIO 145\* Intro to Freshwater Bio (4)

BOT 101\* Gen Botany (4)  
BOT 110\* Plant Biology (3)(F15)  
ENSCI 108 Environ Conservation (3)(F97)  
MICRO 101\* Microbiology (4)(F95)  
PHYSO 101\*Intro Human Physio (4)  
PHYSO 103 Intro to NeuroSci (3)(SU08)  
PLSC 200 Intro to Plant Sci (3)(F11)  
PSYCH 103 Intro to NeuroSci (3)(F91)  
ZOO 101\* Gen Zoology (4)

## 5C. Laboratory Activity

Take one course from 5A or 5B with a lab as indicated by a single asterisk (\*).

## AREA 6A (UC Only) Languages Other than English

Students transferring to UC are required to demonstrate competence (proficiency) in a language other than English equal to two years of high school study. Competence may be demonstrated through one of the following mechanisms:

- 1) Completion of two years of high school coursework (US high school or high school in a country where the language instruction is in English) in a language other than English, with a grade of C minus or better in each course. The two years must be in the same language.
- 2) Complete one of the following MJC courses with a grade of C or better. The more advanced courses can also be used to satisfy IGETC: 3B requirement.

FREN 101 French 1 (5)  
FREN 102 French 2 (5)(F05)  
GERM 101 German 1 (5)  
GERM 102 German 2 (5)(F05)  
ITAL 101 Italian 1 (5)(F07)  
SIGN 125 ASL: Begin Comm w/Deaf (3)(F97)  
SIGN 126 ASL: Interm Comm w/Deaf (3)(F05)  
SIGN 127 ASL: Adv Comm w/Deaf (3)(F05)  
SPAN 101 Spanish 1 (5)  
SPAN 102 Spanish 2 (5)(F05)  
SPAN 103 Spanish 3 (5)(F05)  
SPAN 104 Spanish 4 (5)(F05)  
SPAN 109 Span for Span Spkrs 1 (5)(F10)  
SPAN 110 Span for Span Spkrs 2 (5)(S07)  
SPAN 112 Intro to Chicano/a Lit (3)(F98)  
SPAN 173 Surv of Latin Amer Lit (3)(S06)

- 3) Satisfactory completion of course(s) at a college or university with a grade of C or better in each course. For the purpose of IGETC Area 6, the appropriate course(s) that can be used to satisfy Area 6 is indicated on the approved IGETC list for each college.
- 4) Satisfactory completion, with grades of C or better, of two years of formal schooling at the 6th grade level or higher in an institution where the language of instruction is not English. Appropriate documentation must be presented to substantiate that the required coursework was completed. If an official sealed transcript cannot be obtained from a foreign institution an unofficial transcript may be used to verify proficiency. Students who cannot provide documentation should either pass one of the examinations or tests listed below in 5 through 12 or satisfactorily complete an appropriate language course at their college as outlined in 2 above.
- 5) Achieve a satisfactory score on the SAT Subject Test in languages other than English. If the test was taken before May 1995, the first score is the minimum; if the test was taken after May 1995, use the second score.

Chinese with Listening: 500/520  
French/French with Listening: 500/540  
German/German with Listening: 500/510  
Hebrew (Modern): 500/470  
Italian: 500/520  
Japanese with Listening: 500/510  
Korean/Korean with Listening: /500  
Lit: 500/530  
Spanish/Spanish with Listening: 500/520

- 6) Achieve a score of 3 or better on a College Board Advanced Placement (AP) Examination in a language other than English.
- 7) Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher Level Examination in a language other than English.
- 8) Satisfactory completion of achievement test (credit by exam) administered by a community college, university or other college in a language

other than English. The test must assess the student proficiency at a level equivalent to at least two years of high school language. This conclusion must be posted on a transcript indicating unit, course title, and grade; or on a document with letterhead of the institution granting proficiency stating that the student has mastered proficiency in the language equivalent to two years of high school language.

- 9) If an achievement test (credit by exam) is not available, a faculty member associated with a United States accredited institution of higher learning can verify a student's competency. The institution must provide a document on letterhead asserting that the student has mastered proficiency in the language equivalent to two years of high school study.
- 10) Language other than English "O" level exam with grade of A, B, or C. (Exams in British and former British Colonies.)
- 11) Language other than English International "A" level exam with a score of 5, 6, or 7. (Exams in British and former British colonies.)
- 12) A Defense Language Institute language other than English course which is indicated as "passed" with a C or higher on the official transcript.

## US History, Constitution and American Ideals (AI) Requirement (CSU Only)

### For CSU

The CSU US History, Constitution, and American Ideals (AI) graduation requirement is not part of IGETC. Courses used to satisfy this requirement may also be listed in Areas 3B and/or 4F. However, CSU campuses have the discretion whether to allow courses used to satisfy the CSU AI graduation requirement to count in both Area 3B/4F and to meet the AI graduation requirement. In the absence of specific knowledge of a CSU campus policy for double-counting, MJC will certify IGETC using the courses in areas 3B/4F and the CSU AI graduation requirement.

**Complete six (6) units prior to transfer. Three (3) units from Group a. and three units from Group b, OR six (6) units from Group c.**

- a. ECON 115 Econ Hist of the US (3)(F04)  
HIST 101 Hstry of US to 1877 (3)(F04)  
HIST 102 Hstry of US since 1865 (3)(F04)  
HIST 112 20th Cent Amer (3)(F04)  
HIST 113 Soc/Citrl Hist 20th Cent Amer (3)(F04)  
HIST 115 Econ Hist of the US (3)(F04)  
HIST 116 Women in Amer Hist (3)(F04)  
HIST 119 Soc/Citrl Hist 20th Cent Amer (3)(F04)  
HIST 154 Afri Amer thru 19th Cent (3)(F04)  
HIST 155 Afri Amer in 20th/21st Cent (3)(F04)
- b. POLSC 101 Amer Politics (3)(F04)  
POLSC 102 Const & Rights of Pers (3)(F04)  
POLSC 120 Calif Politics & Problems (3)(F04)

### OR

- c. HIST 101 Hstry of US to 1877(3)(F04)  
HIST 102 Hstry of US Since 1865 (3)(F04)

## Legend

- (3) Units earned
- (F97) Students completing this course prior to term (F: Fall, S: Spring, SU: Summer) and year indicated will not be allowed to fulfill this requirement with this course.
- \* Denotes a lab course.
- \*\* Indicates that transfer credit may be limited on specific course sequences at the UC. Please consult the UC Transfer Course Agreement available in Student Services, 226 or in the MJC Transfer Center.
- ^ Although listed in more than one area, the course may be counted toward only one IGETC pattern area
- † At the time of publication the course had approval only for the unit value indicated. See a counselor or ASSIST.org for current approval.

# Allied Health

## **Martha Robles, Dean**

West Campus Glacier Hall, Room 169  
(209) 575-6361  
[www.mjc.edu/alliedhealth](http://www.mjc.edu/alliedhealth)

## **ADMINISTRATIVE SUPPORT STAFF:**

Kendis Bettencourt, Administrative Assistant/Program Specialist  
Donna Blagg, Administrative Assistant  
Martha Lee, Administrative Specialist  
Elaine Schuber, Administrative Secretary

## **INSTRUCTIONAL SUPPORT STAFF:**

Josh Brown, Instructional Support Technician  
Juan Garcia, Instructional Support Specialist  
Dorothy Peek, Instructional Support Assistant  
Vacant, Instructional Support Specialist

## **INSTRUCTORS:**

Anntoinette (Tania) Adkins	Suzanne Fondse
Sandra Brunn	Kimberly Hester
Kelly Butler	Bonnie Hunt
Shirley Buzbee	Leta Love
Sally Chaffee	Jennifer Macias
Anita Chowdhary	Krista McCullough
Gloria Coats	Jill Ramsey
Chelsea Coulson	Danise Rapetti
Laura DeFreitas	Catherine Rasmussen
Amy Duffy	Lisa Riggs
Richard Dyer	Tonya Robinson
Janet Fantazia	

## **INSTRUCTION IN:**

Home Health Aide (NURSE)  
Medical Assisting (MDAST)  
Nurse Assistant, Nursing (NURSE)  
Nurse Work Experience (NURWE)  
Nursing Skills (NURSK)  
Respiratory Care (RSCR)

## **AWARDS IN:**

AS, CERT: Medical Assisting (CMA)  
SR: Nurse Assistant (CNA)  
AS: Nursing: Associate Degree Nursing Program (RN)  
PATHWAY: Nursing/LVN to ADN Advanced Placement Pathway (LVN to RN)  
AS, BS: Respiratory Care (CRT, RRT)

# Behavioral & Social Sciences

**Nancy Sill, Ed.D., CPA, Dean**  
East Campus Founders Hall, Room 100  
(209) 575-6129  
[www.mjc.edu/instruction/bbss](http://www.mjc.edu/instruction/bbss)

**ADMINISTRATIVE SUPPORT STAFF:**  
Ranai Carlton, Administrative Secretary  
Clorinda Otte, Administrative Specialist

**INSTRUCTIONAL SUPPORT STAFF:**  
Adam Bava, Instructional Support Assistant  
Vacant, Instructional Support Aide  
Todd Mathias, Instructional Support Aide  
Tish Walker, Instructional Support Assistant  
Mayra Martinez, Program Technician

**INSTRUCTORS:**

Bill Anelli  
Melanie Berru  
Debra Bolter, Ph.D.  
Lisa Carlstrom, Ph.D.  
Stephen Choi, JD  
Shelly Fichtenkort, Ph.D.  
Rebecca Ganes  
Tristin Hassell, Ph.D.  
Greg Hausmann  
Andrew Hayes  
Cecelia Hudelson  
Bobby Hutchison  
Eileen Kerr  
Susan Kerr, Ph.D.  
Lee Kooler  
Curtis Martin  
Steve Miller, Ph.D.  
Eva Mo  
Bill Newell, Ph.D.  
Kurt Olson  
J. Douglas Penn, Ph.D.  
Erick Peterson, Ph.D.  
Bryan Silva, Ph.D.  
Al Smith  
Kerri Stephens, Ph.D.

**INSTRUCTION IN:**

Administration of Justice (ADJU)  
Anthropology (ANTHR)  
Economics (ECON)  
Geography (GEOG)  
Gerontology (GERON)  
Human Services (HUMSR)  
History (HIST)  
Philosophy (PHILO)  
Political Science (POLSC)  
Psychology (PSYCH)  
Sociology (SOCIO)  
Social Science (SOCSC)

**AWARDS IN:**

AST, AS: Administration of Justice  
AAT: Anthropology  
AA, CERT: Chemical Dependency Counseling  
AAT: Elementary Teacher Education  
SR: Ethnic Studies  
AAT: Geography  
SR: Gerontology  
AAT: History  
AA, CERT: Human Services  
AAT: Philosophy  
AAT: Political Science  
AAT: Psychology  
SR: Psychosocial Rehabilitation  
AAT: Sociology  
AS, CERT, SR: Supervisory Management

# Business

## **Nancy Sill, Ed.D., CPA, Dean**

East Campus Founders Hall 100  
(209) 575-6129  
[www.mjc.edu/instruction/bbss](http://www.mjc.edu/instruction/bbss)

### **ADMINISTRATIVE SUPPORT STAFF:**

Ranai Carlton, Administrative Secretary  
Clorinda Otte, Administrative Specialist

### **INSTRUCTIONAL SUPPORT STAFF:**

Adam Bava, Instructional Support Assistant  
Vacant, Instructional Support Aide  
Todd Mathias, Instructional Support Aide  
Tish Walker, Instructional Support Assistant  
Mayra Martinez, Program Technician

### **INSTRUCTORS:**

Shelly Akiona	Barbara Salerno
Kevin Alavezos	Brian Sinclair
Nancy Backlund	Chris Vaughn
Kwei-Yu Chu	Patricia Wall
Nadia Isho	Brent Wedge
Linda Kropp	John Zamora
Dale Phillips	

### **INSTRUCTION IN:**

Accounting (BUSAD)  
Bookkeeping (BUSAD)  
Business Administration (BUSAD)  
Clerical (OFADM)  
Computer Graphics (CMPGR)  
Computer Science (CSCI formerly CMPSC)  
Marketing (BUSAD)  
Office Administration (OFADM)  
Real Estate (RLES)  
Supervisory Management (SUPR)

### **AWARDS IN:**

AS, CERT: Accounting  
CERT: Accounting Clerk  
AS, CERT: Bookkeeping  
AS, AST: Business Administration  
AS: Business Operations Management  
AS, CERT: Clerical  
CERT: Computer Applications Specialist  
AS, CERT: Computer Graphics Applications  
AA: Computer Information Systems  
CERT: Computer Network Administration  
CERT: Computer Network Technician  
CERT: Computer Programming Specialist  
AS, AST: Computer Science  
CERT: International Business  
AS: Marketing  
CERT, AS: Office Administration  
CERT: Office Computer Applications  
CERT: Office Support  
CERT: Professional Selling  
AS, CERT, SR: Real Estate, Real Estate Broker  
CERT: Records Management/ Data-Entry Specialist  
CERT: Retail Management  
AS, CERT: Supervisory Management

# Family & Consumer Sciences

## **Martha Robles, Dean**

West Campus Glacier Hall, Room 169  
(209) 575-6343  
[www.mjc.edu/instruction/fcs](http://www.mjc.edu/instruction/fcs)

## **ADMINISTRATIVE SUPPORT STAFF:**

Sarah Ford, Child Development Specialist  
Vacant, Administrative Specialist

## **INSTRUCTORS:**

Amy Carnahan-Cook  
Gisele Flores  
Deborah Laffranchini  
Brandi Snider  
Linda Stephan

## **INSTRUCTION IN:**

Child Development (CLDDV)  
Foods & Nutrition (FDNTR)  
Family Life (FAMLF)

## **AWARDS IN:**

CERT: Associate Teacher  
AS: Child Development  
AST: Early Childhood Education  
CERT: Early Interventionist  
CERT: Master Teacher  
CERT: Site Supervisor  
CERT: Teacher



# Physical, Recreation, and Health Education

**Nick Stavrianoudakis, Dean/Athletic Director**

East Campus PE Office, Room 106  
(209) 575-6269  
[www.mjc.edu/instruction/physicaleducation/](http://www.mjc.edu/instruction/physicaleducation/)  
[www.mjc.edu/athletics/](http://www.mjc.edu/athletics/)

**ADMINISTRATIVE SUPPORT STAFF:**

Colleen Lemburg, Administrative Secretary  
Shamiran Pourelyas, Administrative Specialist

**INSTRUCTIONAL SUPPORT STAFF:**

Mary Jo Brasil, Women's Athletic Equipment Technician  
Ron McGuire, Men's Athletic Equipment Technician

**INSTRUCTORS:**

Steve Aristotelous	Milan Motroni
Shawn Black	Cheryl Mulder
Zeb Brayton	Mary Shea
Paul Brogan	David Shrock, Ed.D.
Jamie DeRollo	Demitrius Snaer
Eric Fischer	Jim Stevens
Michael Girardi	Rusty Stivers

**AWARDS IN:**

AS:	Athletic Training/Sports Medicine
AA, AAT:	Kinesiology

**INSTRUCTION IN:**

Health Education (HE)  
Recreation (REC)  
Athletics (PE)  
Physical Education (PE, PEA, PEC, PEM, PEW, PEVM, PEVW)

# PROGRAM ADOPTIONS

## Agricultural Environmental Science PROGRAM (209) 575-6200

This program will develop job skills and knowledge in environmental science as it relates to agriculture. The student will demonstrate skills in sustainable resource management in agriculture to obtain employment or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

### A.S. DEGREE: AGRICULTURAL ENVIRONMENTAL SCIENCE (Formerly Forestry)

#### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve agricultural problems.*
2. *Perform environmental practices necessary to be successful in the agriculture industry.*
3. *Apply environmental principles to sustainable resource management problems.*
4. *Demonstrate the effective, safe work habits and inter-personal communication skills required by employers in the Agriculture industry.*

#### PROGRAM REQUIREMENTS

To earn an Associate in Science Degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

#### I. ENVIRONMENTAL CAREER COURSES - COMPLETE 5 UNITS

AG 115 *	[NP]	Introduction to Agricultural Education & Careers .....	1
AG 249 **	[NP]	Agriculture Internship .....	2
AG 259ABCD	[NP]	Agricultural Work Experience .....	1 - 4

#### II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

PLSC 200	[NP]	Introduction to Plant Science .....	3
NR 200	[NP]	Soils .....	3
AGM 200	[NP]	Introduction to Mechanical Technology .....	3
AGEC 225	[NP]	Agriculture Computer Applications .....	3
AGEC 210	[NP]	Elements of Agricultural Economics .....	3
AGEC 200	[NP]	Agricultural Accounting and Analysis .....	3

#### III. AGRICULTURAL ENVIRONMENTAL MAJOR COURSES - COMPLETE 15 UNITS

NR 222	[3]	Native Tree and Shrub Identification .....	3
ENSCI 108	[NP]	Environmental Conservation .....	3
ENSCI 110	[2]	California Water .....	3
AGGE 146	[1]	Agriculture, Environment and Society .....	3
PHILO 135	[NP]	Environmental Ethics .....	3

#### IV. MAJOR ELECTIVES - COMPLETE 2-3 UNITS

AGM 230	[NP]	Field Surveying .....	2
AG 285	[4]	Agricultural Communications .....	3
AGGE 150	[NP]	Sustainable Production Systems .....	3
EHS 201	[3]	Plant Identification & Usage 1 .....	3

**TOTAL UNITS IN AS MAJOR ..... 31 - 32**

### CERTIFICATE OF ACHIEVEMENT: AGRICULTURAL ENVIRONMENTAL SCIENCE (Formerly Forestry)

#### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. *Practice safe work habits in an employment setting, including handling and storage of hazardous materials and operation of basic tools and equipment.*
2. *Apply sustainable resource management skills for technical employment in the natural resource management.*
3. *Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.*

#### PROGRAM REQUIREMENTS

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 *	[NP]	Introduction to Agricultural Education & Careers .....	1
AG 249 **	[NP]	Agriculture Internship .....	2
AG 259ABCD	[NP]	Agricultural Work Experience .....	1 - 4

#### II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 6 UNITS

PLSC 200	[NP]	Introduction to Plant Science .....	3
NR 200	[NP]	Soils .....	3
AGM 200	[NP]	Introduction to Mechanical Technology .....	3
AGEC 225	[NP]	Agriculture Computer Applications .....	3

#### III. AGRICULTURE MAJOR COURSES - COMPLETE 9 UNITS

ENSCI 108	[NP]	Environmental Conservation .....	3
NR 222	[3]	Native Tree and Shrub Identification .....	3
ENSCI 110	[2]	California Water .....	3
AGGE 150	[1]	Sustainable Production Systems .....	3

#### IV. AGRICULTURE MAJOR ELECTIVES - COMPLETE 2-3 UNITS

AGM 230	[NP]	Field Surveying .....	2
AGM 215	[4]	Machinery Management.....	3
EHS 276	[NP]	Landscape Maintenance.....	3

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .....22-23**

# Agriculture Business PROGRAM (209) 575-6200

## A.S.-T DEGREE: AGRICULTURE BUSINESS

The Associate in Science in Agriculture Business for Transfer Degree (AS-T in Agriculture Business) will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Agriculture Business. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Potential careers in the Agriculture Business field include: Potential careers in the Agriculture Business field include: farm and ranch management, farm appraisal, agricultural accountant, employment with agricultural lenders and banks as loan officers, work with governmental agencies involved in loan supervision and agricultural lending.

The Associate in Science in Agriculture Business for Transfer Degree (AS-T in Agriculture Business) is intended for students who plan to complete a bachelor's degree in Agriculture Business at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

The Associate in Science in Agriculture Business for Transfer Degree (AS-T in Agriculture Business) may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Analyze financial records and develop financial documents required by agricultural lenders and commercial banks.
2. Describe the scope and economic significance of agriculture in the state of California.
3. Utilize the computer to create graphs, databases and to access information relevant to agricultural business.
4. Explain farm management concepts and practices utilized in agri-business including developing budgets, farm record analysis, profit and loss analysis.
5. Use knowledge of economic laws in order to facilitate and improve overall business operation.

### PROGRAM REQUIREMENTS

The following is required for the Associate in Science in Agriculture Business for Transfer Degree (AS-T in Agriculture Business):

- 60 semester or 90 quarter CSU-transferable units.
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of "C or better" or a "P" in all courses required for the major or area of emphasis

### REQUIRED CORE: 13-15 UNITS

NR 200	[NP]	Soils	.....3
<b>OR</b>			
CHEM 143	[NP]	Introductory College Chemistry	.....4
<b>OR</b>			
CHEM 101	[NP]	General Chemistry 1	.....5
AGEC 210	[NP]	Elements of Agricultural Economics	.....3
MATH 134	[NP]	Elementary Statistics	.....4
ECON 101	[NP]	Principles of Macroeconomics	.....3

### LIST A: SELECT THREE COURSES

AGEC 220	[NP]	Introduction to Agribusiness Management	.....3
AGEC 225	[NP]	Agriculture Computer Applications	.....3
ANSC 200	[NP]	Introduction to Animal Science	.....3
<b>OR</b>			
PLSC 200	[NP]	Introduction to Plant Science	.....3
AGEC 200	[NP]	Agricultural Accounting and Analysis	.....3
AGEC 280	[NP]	Agricultural Sales and Service	.....3

### LIST B: SELECT 0-9 UNITS

BUSAD 218	[NP]	Business Law	.....4
ANSC 230	[NP]	Poultry Science	.....3
ANSC 220	[NP]	Dairy Industry/Dairy Science	.....3
PLSC 230	[NP]	Fruit Science	.....3
EHS 210	[NP]	Introduction to Environmental Horticulture Science	.....3
AGM 235	[NP]	Irrigation and Drainage	.....3

### TOTAL UNITS REQUIRED IN A.S.-T MAJOR .....22-33

UNITS REQUIRED FOR IGETC/CSU BREADTH	.....37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED)	.....0-17
DOUBLE-COUNTED UNITS	.....12-16

### TOTAL UNITS REQUIRED FOR A.S.-T DEGREE ..... 60

\* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for the Associate in Science in Agriculture Business for Transfer degree.

# Animal Science

## PROGRAM

(209) 575-6200

## A.S.-T DEGREE: AGRICULTURE ANIMAL SCIENCES

The Associate in Science in Agriculture Animal Sciences degree (AS-T in Agriculture Animal Sciences) is designed to prepare students who wish to transfer to a CSU and major in Agriculture Animal Sciences. This program will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Agriculture Animal Sciences. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate practical skills in animal husbandry in the areas of management, production, breeding, nutrition, health, safety and handling.
2. Explain and demonstrate techniques used in preparing animals for marketing, shows and exhibitions.
3. Identify and explain production parameters associated with efficient livestock and animal management (i.e. feed conversion rates, normal rates of gain, growth rates, reproduction rates etc.).
4. Explain the role of government agencies in regulating and monitoring various factors associated with livestock and animal production.

### PROGRAM REQUIREMENTS

The following is required for the Associate in Science in Agriculture Animal Sciences for Transfer (AS-T in Agriculture Animal Sciences) degree:

- 60 semester or 90 quarter CSU-transferable units.
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- attainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of "C or better" or a "P" for pass/no pass in all courses required for the major or area of emphasis

### REQUIRED CORE: 14-15 UNITS

CHEM 101	[NP]	General Chemistry 1	.....5
<b>OR</b>			
CHEM 143	[NP]	Introductory College Chemistry	.....4
AGEC 210	[NP]	Elements of Agricultural Economics	.....3
<b>OR</b>			

ECON 102	[NP]	Principles of Microeconomics	.....3
ANSC 200	[NP]	Introduction to Animal Science	.....3
MATH 134	[NP]	Elementary Statistics	.....4

### LIST A: SELECT ONE FROM EACH AREA

#### AREA 1: ANIMAL PRODUCTION (3 UNITS)

ANSC 201	[NP]	Beef Cattle Science	.....3
ANSC 220	[NP]	Dairy Industry/Dairy Science	.....3
ANSC 207	[NP]	Equine Science	.....3
ANSC 230	[NP]	Poultry Science	.....3
ANSC 202	[NP]	Swine Science	.....3

#### AREA 2: ANIMAL HEALTH (3-5 UNITS)

ANSC 214	[NP]	Livestock Feeding and Nutrition	.....3
ANSC 215	[NP]	Animal Health and Sanitation	.....3
CHEM 112	[NP]	Organic Chemistry 1	.....5

### LIST B: SELECT 0-8 UNITS

AGEC 200	[NP]	Agricultural Accounting and Analysis	.....3
ANSC 224	[NP]	Dairy Feeds & Feeding	.....3
ANSC 221	[NP]	Dairy Cattle Selection & Evaluation	.....3
PLSC 205	[NP]	Field Crops	.....3
AGM 235	[NP]	Irrigation and Drainage	.....3

### TOTAL UNITS REQUIRED IN A.S.-T MAJOR .....20-32

UNITS REQUIRED FOR IGETC/CSU BREADTH	.....37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED)	.....2-16
DOUBLE-COUNTED UNITS	.....13

### TOTAL UNITS REQUIRED FOR A.S.-T DEGREE ..... 60

\* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for the Associate in Science in Agriculture Animal Sciences for Transfer degree.

# English for Life and Work

## NON-CREDIT PROGRAM

(209) 575-6159

## CERTIFICATE OF COMPLETION: ENGLISH FOR LIFE AND WORK: ELEMENTARY

With a Career Development and College Preparation (CDCP) certificate in English for Life and Work: Elementary, a student possesses basic interpersonal communication skills and understanding and use of the English language at the elementary level and demonstrates the ability to read, write, listen, and speak in a variety of common everyday life and work situations at this level.

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Apply and use correct word order, grammar, and vocabulary encountered at the upper-elementary level to construct original sentences in guided exercises.
2. Recite and improvise dialogues demonstrating major social functions of language with increasing fluency and clear pronunciation.
3. Read and respond to short reading selections about everyday social and personal business comprehending expressions and vocabulary encountered in class using basic academic reading skills.
4. Write original sentences, short notes, and letters as well as familiar sentences accurately from dictation and complete forms and applications correctly.

### PROGRAM REQUIREMENTS

To receive a CDCP certificate in English for Life and Work: Elementary, students must complete courses culminating in the successful completion of ELW 903.

#### REQUIRED COURSES: ALL NON-CREDIT

ELW 901	[ 1 ]	Beginning English for Life and Work .....	0
ELW 902	[ 1 ]	Elementary English for Life and Work .....	0
ELW 903	[ 1 ]	Higher Elementary English for Life and Work .....	0

**TOTAL UNITS REQUIRED IN CERTIFICATE OF COMPLETION .....** 0

## CERTIFICATE OF COMPLETION: ENGLISH FOR LIFE AND WORK: PROFICIENT

With a Career Development and College Preparation (CDCP) certificate in English for Life and Work: Proficient, a student possesses basic interpersonal communication skills and understanding and use of the English language at the low-advanced level and demonstrates the ability to read, write, listen, and speak in a variety of everyday life and work situations at this level.

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Possess accurate understanding of, apply, and use most English grammatical structures to meet most needs and demands in a variety of life and workplace situations using vocabulary at the low-advanced level.
2. Respond confidently, fluently, and accurately to a wide variety of social, personal, and professional situations at the low-advanced level.
3. Read, respond, summarize, and interpret low-advanced reading passages and authentic documentation in varying modes and formats using a wide range of academic reading skills and reading strategies.
4. Compose resumes, summaries, reports, evaluations, business letters, e-mails, memos, instructions, and multi-paragraph compositions using academic vocabulary and accurate use of grammar at the low-advanced level.

### PROGRAM REQUIREMENTS

To receive a CDCP certificate in English for Life and Work: Proficient, students must complete courses culminating in the successful completion of ELW 906.

#### REQUIRED COURSES: ALL NON-CREDIT

ELW 904	[ 1 ]	Intermediate English for Life and Work .....	0
ELW 905	[ 1 ]	High Intermediate English for Life and Work .....	0
ELW 906	[ 1 ]	Low Advanced English for Life and Work .....	0

**TOTAL UNITS REQUIRED IN CERTIFICATE OF COMPLETION .....** 0

## Plant Science PROGRAM (209) 575-6200

## A.S.-T DEGREE: AGRICULTURE PLANT SCIENCE

The Associate in Science in Agriculture Plant Science for Transfer Degree (AS-T in Agriculture Plant Science) will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Agriculture Plant Science. Potential careers in the Agriculture Plant Science field include: Pest Control Advisor (PCA), crop production specialist, farm management positions, landscape design, quality control manager, county and governmental compliance inspector, sales and marketing of seed and other crop protecting agents. The Associate in Science in Agriculture Plant Science for Transfer Degree (AS-T in Agriculture Plant Science) is intended for students who plan to complete a bachelor's degree in Agriculture Plant Science at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

### PROGRAM REQUIREMENTS

The following is required for the Associate in Science in Agriculture Plant Science for Transfer Degree (AS-T in Agriculture Plant Science): 60 semester or 90 quarter CSU-transferable units.

- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better or "P" for pass in all courses required for the major or area of emphasis

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate practical skills in plant science in the areas of management and production of crops and horticultural plants commonly grown in California.
2. Identify major soil types and classes found in the primary growing areas of California and describe characteristics of these soil types.
3. Recognize crops produced in California and explain management techniques for each specific crop.
4. Explain the role of government agencies in regulating and monitoring various factors associated with crop production.
5. Identify and explain the use of various types of irrigation systems used in California.

**PROGRAM REQUIREMENTS**

The following is required for the Associate in Science in Agriculture Plant Science for Transfer (AS-T in Agriculture Plant Science) degree:

- 60 semester or 90 quarter CSU-transferable units.
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of "C or better" or a "P" for pass/no pass in all courses required for the major or area of emphasis

**REQUIRED CORE: 17-18 UNITS**

NR 200	[NP]	Soils	.....3
CHEM 143	[NP]	Introductory College Chemistry	.....4
<b>OR</b>			
CHEM 101	[NP]	General Chemistry 1	.....5
AGEC 210	[NP]	Elements of Agricultural Economics	.....3
<b>OR</b>			
ECON 102	[NP]	Principles of Microeconomics	.....3
MATH 134	[NP]	Elementary Statistics	.....4
PLSC 200	[NP]	Introduction to Plant Science	.....3

**LIST A: SELECT 3-5 UNITS**

EHS 235	[NP]	Plant Propagation/Production	.....3
PLSC 235	[NP]	Plant Propagation	.....3
EHS 201	[NP]	Plant Identification & Usage 1	.....3
EHS 202	[NP]	Plant Identification & Usage 2	.....3
CHEM 112	[NP]	Organic Chemistry 1	.....5

**LIST B: SELECT 0-9 UNITS**

PLSC 250	[NP]	Plant Nutrition and Fertilizer	.....3
AGM 220	[NP]	Industrial/Agricultural Machinery	.....3
AGM 215	[NP]	Machinery Management	.....3
AGM 235	[NP]	Irrigation and Drainage	.....3
AGEC 200	[NP]	Agricultural Accounting and Analysis	.....3

**TOTAL UNITS REQUIRED IN A.S.-T MAJOR .....20-32**

UNITS REQUIRED FOR IGETC/CSU BREADTH	..... 37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED)	..... 2-16
DOUBLE-COUNTED UNITS	..... 13

**TOTAL UNITS REQUIRED FOR A.S.-T DEGREE ..... 60**

\* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for the Associate in Science in Agriculture Plant Science for Transfer degree.



# PROGRAM REVISIONS

## Anthropology PROGRAM (209) 575-6129

### A.A.-T DEGREE: ANTHROPOLOGY

#### ABOUT THIS AWARD

The Associate in Arts in Anthropology for Transfer degree includes lower division coursework that is required for transfer. Anthropology examines the broad conditions and experiences of becoming and being human through a myriad of lenses: genetics and evolution, comparative primate anatomy and behavior, the bioarchaeological record, language forms, and culture. The Associate in Arts in Anthropology for Transfer degree will provide foundational training for students in anthropological concepts, methods of inquiry, and theories of human variation, change and adaptation. All academic subfields of anthropology are emphasized at MJC, including biological anthropology, cultural anthropology, linguistic anthropology and archaeology. Students will learn how to utilize and apply anthropology and its scientific and humanistic modalities. Across broad coursework, students will discover the uniqueness of being biologically human and engage the role of culture and language in the histories and politics of an interconnected, global world.

The Associate in Arts in Anthropology for Transfer degree is intended for students who plan to complete a bachelor's degree in Anthropology at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or Anthropology. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

#### THE FOLLOWING IS REQUIRED FOR THE A.A. DEGREE IN ANTHROPOLOGY FOR TRANSFER:

1. A minimum of 18 semester units or 27 quarter units in the major with a grade of C or better or "P" (Pass) while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
2. Completion of 60 semester or 90 quarter CSU-transferable units using the CSU-GE Breadth or the IGETC pattern.
3. Exactly 60 semester units or 90 quarter units are required for the degree.

#### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the basic concepts, methods of inquiry, and the theories of biological, cultural, linguistic and archaeological anthropology.

2. Explain how the scientific method serves as a foundation for understanding the observed variation, change and adaptation of humans and their environments.
3. Use anthropological perspectives to interpret evolutionary, historical and contemporary issues.

#### REQUIRED CORE: 9 UNITS

ANTHR 101	[NP]	Biological Anthropology.....	3
ANTHR 102	[NP]	Cultural Anthropology.....	3
ANTHR 130	[NP]	Archaeology & Cultural Prehistory.....	3

#### LIST A: 4 UNITS

ANTHR 104	[NP]	Linguistic Anthropology.....	3 AND
ANTHR 105	[NP]	Biological Anthropology Lab.....	1
MATH 134	[NP]	Elementary Statistics.....	4

#### LIST B: SELECT ONE TO TWO (3-4 UNITS)

ANY LIST A COURSE NOT ALREADY USED .....	3-4
<b>AREA 1: SCIENCE METHODS</b>	
PHILO 107 [NP] Philosophy of Science .....	3
PSYCH 102 [NP] Research Methods.....	3
<b>AREA 2: SCIENCES</b>	
ANAT 125 [NP] Human Anatomy.....	4
EASCI 161 [NP] Earth Science .....	4
GEOL 161 [NP] Physical Geology .....	4

#### LIST C: 3-4 UNITS

ANY LIST A OR B COURSE NOT ALREADY USED .....	3-4
ANTHR 107 [NP] Forensic Anthropology Introduction .....	3
ANTHR 140 [NP] Magic, Witchcraft, and Religion.....	3
ANTHR 150 [NP] Native People of North America .....	3
ANTHR 174 [NP] Anthropology Summer Field Studies.....	3

#### TOTAL UNITS REQUIRED IN A.A.-T MAJOR .....19-25

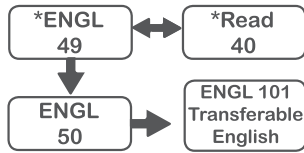
TOTAL UNITS THAT MAY BE DOUBLE-COUNTED .....	12-22
UNITS REQUIRED FOR IGETC/CSU BREADTH .....	37-39
ELECTIVES (AS NEEDED) .....	8-26

#### TOTAL UNITS REQUIRED FOR A.A.-T DEGREE ..... 60

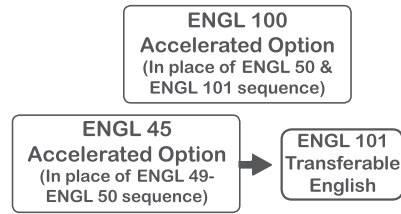
\*Note: Double counting courses in GE and the major is permitted. MJC Guidance and Activities requirements are not required for this degree.

2017-2018 Catalog Page: 192  
 Comments: Updated English 100 Accelerated Option

\* Concurrent Enrollment or Assess out through MJC Placement Test.



OR



### Associates in Arts in English for Transfer

**Required Core: 6 Units**

ENGL 102	ENGL 103
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**List A: 6 units/Select Two Courses**

ENGL 131	ENGL 132	ENGL 135	ENGL 136	ENGL 137	ENGL 138
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**List B: 3 units/Select One Course from list below or any course not used from List A**

ENGL 105	ENGL 106	ENGL 111	ENGL 112	ENGL 114	
ENGL 116	ENGL 151	ENGL 163	ENGL 171	ENGL 176	ENGL 179

**List C: 3 units/Select One Course from list below or any course not used from List A or B**

ENGL 156	ENGL 157	ENGL 161	ENGL 162	ENGL 168
ENGL 169	ENGL 172	ENGL 173	ENGL 174	ENGL 175

### 2-YEAR PLAN

<b>1<sup>ST</sup> SEMESTER</b> 3 units from Eng 101	>3 units total	+ GENERAL EDUCATION 12 units
<b>2<sup>ND</sup> SEMESTER</b> 3 units from Core 3 units from List A	>6 units total	+ GENERAL EDUCATION 9 units
<b>3<sup>RD</sup> SEMESTER</b> 3 units from Core 3 units from List A	>6 units total	+ GENERAL EDUCATION 9 units
<b>4<sup>TH</sup> SEMESTER</b> 3 units from List B (or A) 3 units from List C (or A or B)	>6 units total	+ GENERAL EDUCATION 9 units

2017-2018 Catalog Page: 193, 225  
 Comments: Updated Program Learning Outcomes

# Environmental Horticulture Science PROGRAM

(209) 575-6200

# Office Administration PROGRAM

(209) 575-6129

## A.S. DEGREE: ENVIRONMENTAL HORTICULTURAL SCIENCE

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify and appraise the educational requirements for career opportunities in the horticulture industry.
2. Perform nursery practices necessary to be successful in the horticulture industry.
3. Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, and growth habits, for each.
4. Demonstrate the effective work habits and inter-personal communication skills required by employers in the horticulture industry.

## CERTIFICATE: OFFICE ADMINISTRATION

### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.
2. Competently communicate in support of a business office, including production and design of complex electronic and paper based correspondence and documents.
3. Use the Internet and a wide variety of computer applications to compute, to analyze, and to solve business problems.
4. Use the Internet, a wide variety of computer applications and standard business procedures to compute, analyze business performance and solve problems.
5. Efficiently perform office-related duties utilizing prioritization and necessary communication skills.

# COURSE ADOPTIONS

## ART

### ART 151—SURVEY OF ISLAMIC ART

3 UNITS

54 Lecture Hours

A survey of the art and architecture of the Islamic world including the Middle East, North Africa, Europe, and Central, South, and Southeast Asia, from the 7th to the 21st centuries CE. Works of art from Muslim countries and regions will be examined with comparison to local religions and artistic traditions that have proven influential. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU) **General Education:** (MJC-GE: C)

## CSCI (COMPUTER SCIENCE)

### CSCI 295—INTERNSHIP IN COMPUTER SCIENCE DISCUSSION

1 UNIT

18 Disc Hours

*Corequisite: Concurrent enrollment in CSCI 296ABC.*

Examines computer science internship experiences of students concurrently enrolled in CSCI 296A or CSCI 296B or CSCI 296C. Class meetings are for sharing learning experiences, analyzing issues related to computer science, and collectively addressing issues associated with the internships. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU)

### CSCI 296ABC—INTERNSHIP IN COMPUTER SCIENCE

1-3 UNITS

*A= 54 Lab Hours B= 108 Lab Hours C= 162 Lab Hours*

*Corequisite: Concurrent enrollment in CSCI 295.*

Supervised internship in computer science. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU)

# COURSE REVISIONS

## ENGL (ENGLISH)

2017-2018 Catalog Page: 293  
Comments: Added CSU-GE Area 2

### ENGL 100—INTENSIVE READING, WRITING, AND REASONING 5 UNITS

90 Lecture Hours

**Prerequisite:** Satisfactory completion of ENGL 45 or ENGL 49 or qualification by the MJC assessment process.

An accelerated alternative to the ENGL 50 and ENGL 101 sequence that focuses on development of reading, writing, and critical thinking skills necessary to demonstrate competency in college-level composition. Provides a highly structured, intensive, and supportive learning framework with a focus on academic texts and the use of a variety of sources to write a college-level research paper. Includes an 8,000 word writing requirement, at least 6,000 of which must be in essays with a developed thesis. 2,000-3,000 of the 8,000 must be research-based writing with proper MLA formatting and documentation. Field trips might be required. Not repeatable. (A-F Only) **Transfer:** (CSU,) (C-ID: ENGL 100) **General Education:** (MJC-GE: D1) (CSU-GE: A2)

## HE (HEALTH EDUCATION)

2017-2018 Catalog Page: 306  
Comments: Added UC Transferability

### HE 112—INTRODUCTION TO PUBLIC HEALTH 3 UNITS

54 Lecture Hours

An introduction to the discipline of Public Health including basic concepts, terminologies, history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an examination of core public health disciplines. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of disease, illness and health disparities; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) (CID: PHS 101) **General Education:** (MJC-GE: B, E)

2017-2018 Catalog Page: 306  
Comments: Added CSU-GE Area D7

### HE 114—HEALTH AND SOCIAL JUSTICE 3 UNITS

54 Lecture Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50.

This course provides an introduction to health inequities in the United States that stem from unequal living conditions. Students will explore how education, socioeconomic status, racism and gender influence health epidemics and health policy. In addition, basic skills necessary for advocating for health and social justice will be addressed. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU,UC) (C-ID: PHS 102) **General Education:** (MJC-GE: B ) (CSU-GE: D7)

2017-2018 Catalog Page: 306  
Comments: CSU-GE Area  
Removed D7\*\*, Added E

### HE 115—DRUGS, HEALTH, AND SOCIETY 3 UNITS

54 Lecture Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 45 or satisfactorily complete ENGL 50.

This course provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. The concepts of substance abuse and dependence, licit and illicit drugs, and the pharmacologic, neurologic, and physiologic effects of selected substances on the human brain will be introduced. Factors involved in the supply and demand for drugs will be discussed. Data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Recovery options and local resources will be reviewed. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) **General Education:** (MJC-GE: B, E ) (CSU-GE: D7, E)

\*\*CSU-GE: D7 COURSE APPROVAL RESCINDED BY CSU 2017-18 MID-ACADEMIC YEAR

## MATH (MATHEMATICS)

2017-2018 Catalog Page: 319  
Comments: Updated Prerequisite

### MATH 138—CALCULUS FOR BUSINESS & SOCIAL SCIENCES 3 UNITS

54 Lecture Hours

*Prerequisite:* Satisfactory completion of MATH 90 or qualification by the MJC assessment process.

Concepts of functions and limits; applied calculus emphasizing techniques of differentiation and integration with applications directed primarily to business and the social sciences; partial derivatives. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) (C-ID: MATH 140) **General Education:** (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

2017-2018 Catalog Page: 319  
Comments: Removed UC Transferability and Added CSU-GE Area B4

### MATH 161—TRIGONOMETRY 4 UNITS

72 Lecture Hours

*Prerequisite:* Satisfactory completion of MATH 90 or qualification by the MJC assessment process.

A comprehensive course in analytic geometry and trigonometry. Topics include: trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors. This serves as a one semester trigonometry course, or together with MATH 162, a two-semester Precalculus course sequence. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU) (C-ID: MATH 851) (CC MATH 8) **General Education:** (MJC-GE: D2)(CSU-GE: B4)

2017-2018 Catalog Page: 319  
Comments: Added CSU-GE Area B4 and IGETC Area 2A

### MATH 162—PRECALCULUS 4UNITS

72 Lecture Hours

*Prerequisite:* Satisfactory completion of MATH 161.

A comprehensive course in college algebra with integrated review of trigonometry topics in preparation for calculus. Topics include: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) **General Education:** (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

## PEVM (PHYSICAL EDUCATION: VARSITY MEN'S ACTIVITIES)

2017-2018 Catalog Page: 341  
Comments: Revised Hours

### PEVM 115—VARSITY FOOTBALL 3 UNITS

162 Lab Hours

Instruction, training, and competition in intercollegiate football. Four completions allowed. Field trips might be required.(A-F or P/NP) **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

## PEVW (PHYSICAL EDUCATION: VARSITY WOMEN'S ACTIVITIES)

2017-2018 Catalog Page: 344  
Comments: Added UC Transferability

### PEVW 147XABC—TRAINING & CONDITIONING FOR ATHLETICS 0.5-3 UNITS

X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours

*Limitations on Enrollment:* Enrollment limited to students who successfully pass a tryout.

Prepares the collegiate athlete physically and mentally for competitive play and reduced risk of injury. Includes collegiate level skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only) **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

## READ (READING)

2017-2018 Catalog Page: 351  
Comments: Added CSU-GE Area 3

### READ 184—CRITICAL READING 3 UNITS

54 Lecture Hours

*Recommended for Success:* Before enrolling in this course, students are strongly advised to satisfactorily complete READ 82.

Reading for inferred ideas, critical evaluation of ideas, tone, mood, and style. Discussion of application of reader's knowledge to reading material. Field trips are not required. Not repeatable. (A-F Only) **Transfer:** (CSU) **General Education:** (MJC-GE: D2) (CSU-GE: A3)