



Outcomes Assessment Work Group

AGENDA

February 6, 2015

1:00 - 2:30pm

Founders' Hall 116A

View the agenda and attachments at:

http://www.mjc.edu/instruction/outcomesassessment/oawagendas_minutes.php

I. APPROVAL OF MINUTES

December 5, 2014

II. NOTIFICATION ITEMS

None.

III. CLOs Originating Through Course Updates or Revisions

A. Status Reports

1. CLOs Pulled for Revision at Previous OAW Meetings – Updates on Status of Revisions

AUTEC – 311: Basic Automotive Systems

AUTEC – 317: Auto Heating & Air Conditioning

AUTEC – 319: A8: Engine Performance

AUTEC – 320: L1: Advanced Engine Performance

AUTEC – 321: A5: Brakes Systems

AUTEC – 322: A4: Steering, Suspension and Alignment

AUTEC – 323: A2: Automatic Transmission & Transaxles

AUTEC – 324: A3: Manual Transmissions & Drive Axles

AUTEC – 368: A6: Automotive Electricity/Electronic Systems 1

AUTEC – 369: A6: Automotive Electricity 2

B. CLOs for Approval (includes revisions from previous meetings and new submissions through course updates)

1. Revised CLOs Pulled Previously – Ready for Approval

PHILO 130: Political Philosophy

1. Explain different theoretical orientations to politics.
2. Compare different political issues in terms of different theoretical orientations.
3. Construct and evaluate arguments in support of, and in opposition to, different theoretical orientations in politics.
4. Describe the historical context and development of different political theoretical orientations.

MUST 141

1. Identify landmark works from the canon of traditional western art music at an introductory level
2. Build introductory level musicianship skills by means of computer assisted technology
3. Utilize introductory level musical terminology to write essays about music



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MUST 142

1. Identify landmark works from the canon of traditional western art music at a basic level
2. Build basic level musicianship skills by means of computer assisted technology
3. Utilize basic level musical terminology to write essays about music

MUST 14

1. Identify landmark works from the canon of traditional western art music at an intermediate level.
2. Build intermediate level musicianship skills by means of computer assisted technology
3. Utilize intermediate level musical terminology to write essays about music

MUST 144

1. Identify landmark works from the canon of traditional western art music at an advanced level
2. Build advanced level musicianship skills by means of computer assisted technology
3. Utilize advanced level musical terminology to write essays about music

2. **NEW CLOs for Approval** (12.3, 1/20 and 2/3/15, Curriculum Committee Meetings)

ADJU - 236: Correctional Law

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

1. Discuss the evolving Constitutional rights of the incarcerated.
2. Identify landmark decisions from which correctional policies and practices are derived.
3. Understand the balance between legitimate governmental interest and prisoners' rights.

AG - 101: Leadership in Agriculture

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

1. Describe and compare different leadership styles.
2. Create and participate in group presentations on agricultural topics.

ART - 120: Basic Drawing 1

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

1. Create drawings that demonstrate understanding of the role of balance in two-dimensional composition, including both symmetrical balance and asymmetrical balance, and that fully address both positive and negative space.
2. Use various drawing media and demonstrate ability to draw representationally with chosen medium.
3. Use contour line to accurately depict form on a flat surface, and demonstrate technique and understanding through the act of drawing using contour lines.



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4. Create drawings that demonstrate proper technique and understanding of the laws of one-point linear perspective.
5. Create drawings that demonstrate understanding of value (relative lightness or darkness) through observation of light source and the effect of light upon objects, using distinct value levels to create the illusion of form on a flat surface
6. Create drawings that demonstrate understanding of the basic strategies of two-dimensional composition, including both open compositions and closed compositions, and that fully address both positive and negative space, scale and cropping where appropriate.

ART - 121: Basic Drawing 2

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

1. Create color portraiture, which demonstrates technique, understanding of proportion, value structure, and color-use.
2. Use various drawing media and demonstrate ability to draw either representationally or expressively with each medium.
3. Make drawings that demonstrate the significance of light and shadow in creating volume while depicting still-lives, through works that identify the levels of the value structure created by the lighting situation.

ART - 123: Figure Drawing

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

1. Understand human anatomy on the surface, muscular and skeletal levels, as well as the body's kinetic and static possibilities.
2. Identify the kinetic and static possibilities of the human body and employ the skills for representing those poses through the act of gesture drawing.
3. Understand the significance of light and shadow in human figure drawing.
4. Create drawings of the human form with or without models.

ART - 124: Color and 2-D Foundation Design

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

1. Create works that demonstrate an understanding of symmetrical balance, asymmetrical balance, and radial balance and demonstrate their ability to apply these strategies to solve specific visual problems.
2. Creating a twelve-hue color wheel mixing with only the primary colors, that demonstrates knowledge of the subtractive process of color theory.
3. Utilize four different line techniques, and demonstrate their ability to apply contour line, parallel line hatching, scribble and stipple to specific drawing problems.
4. Create a design project that demonstrates an understanding invented texture through the execution of a collage portrait using found text that corresponds to the value and shapes.
5. Apply the proper vocabulary terms of compositional and color theory, and use these term in analyzing works of art.



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ART - 125: Color and 3-D Foundation Design

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

1. Apply the technical method of subtraction for creating three-dimensional forms.
2. Create physical and visual depth when solving a design related problem.
3. Utilize methods for soldering wire and integrating space in a unified form.

ART - 129: Figure Drawing 2

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

1. Understand human anatomy on the surface, muscular and skeletal levels, as well as the body's kinetic and static possibilities.
2. Understand the significance of light and shadow in human figure drawing.
3. Create drawings of the human form with or without models.

AUTEC - 211: Introduction to Alternative Fuels and Advanced Technology Vehicles

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

1. Evaluate the viability of various alternative fuels based on demographic information and make appropriate recommendations to the user.
2. Evaluate various alternative fuel types and the efficiency of each.
3. Compare the sources, uses, advantages and disadvantages of compressed natural gas, propane, biodiesel, ethanol, hydrogen and synthetic fuels.

AUTEC - 315: Engine Rebuilding

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

1. Evaluate serviceability of engine components using appropriate measurement equipment and techniques.
2. Set up and operate engine machining equipment.

BIO - 101: Biological Principles

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

1. Apply the scientific method while utilizing laboratory equipment to explore the structure and function of biologically important molecules.
2. Explain how cellular organization and function contribute to the development, maintenance, and reproduction of adult organisms.
3. Perform techniques used in biotechnology for giving cells and organisms new traits and describe how recombinant DNA techniques are used to solve problems and improve human health.

BIO - 128: Sierra Nevada Natural History

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

1. Apply knowledge acquired to real world settings in the Sierra Nevada and Central Valley foothills.



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2. Recognize and describe key features of each major habitat in the Sierra Mountain Range.
3. Discuss and collaborate with students on various current issues in the Sierra Nevada ecosystem.

CHEM - 112: Organic Chemistry 1

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

1. Solve abstract and complex chemical problems using organic chemistry ideas (bonding, reactions and/or mechanisms) and theories.
2. Understand key events in the development of chemistry (bonding, reactions and/or mechanisms) and recognize that science is an evolving body of knowledge.
3. Identify and use chemical laboratory equipment and instrumentation to quantitatively and/or qualitatively determine an unknown.

CHEM - 113: Organic Chemistry 2

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

1. Solve abstract and complex problems using organic chemistry ideas (bonding, reactions, and mechanisms) and theories.
2. Understand key events in the development of chemistry (bonding, reactions, and/or mechanisms) and recognize that chemistry is an evolving body of knowledge.
3. Identify and use chemical laboratory equipment and instrumentation to quantitatively and/or qualitatively determine an unknown.
4. Extract pertinent information from an appropriate chemical database and report the information in a written narrative with chemical structures.

HE - 101: Emergency Medical Response; CPR PRO/Healthcare Provider

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

1. Evaluate emergency situations and select and provide the appropriate care to sustain life or minimize the consequences of the situation.
2. Analyze the various aspects of a scene to determine scene safety issues and ensure the safety of yourself and bystanders.
3. Analyze the information attained during the initial assessment and develop an emergency action plan.

HIST - 115: Economic History of the United States

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

1. Identify and evaluate a leader in American history whose work stimulated economic development.
2. Describe the significance of the American Constitution toward economic development.
3. Identify and assess one historical event which demonstrates how governmental policies affect economic behavior.



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HIST - 192: Independent Studies in History

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

1. Write an extensive, interpretive argument on an appropriate college level academic topic.
2. Present the Independent project or paper in a professional manner, if indicated on the proposal form.

MATH - 134: Elementary Statistics

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

1. Analyze and solve level appropriate problems including descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.
2. Effectively communicate, using appropriate mathematical notation, processes and strategies in solving level appropriate problems including descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.

MATH - 135: Problem Solving Skills and Technology for MATH 134

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

1. Analyze and solve level appropriate problems including descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.
2. Effectively communicate, using appropriate mathematical notation, processes and strategies solving level appropriate problems descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.

MATH - 174: Introduction to Differential Equations & Linear Algebra

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

1. Analyze and solve level appropriate problems including linear algebra, differential equations, and applications.
2. Effectively communicate, using appropriate mathematical notation, processes and strategies in solving level appropriate problems including linear algebra, differential equations, and applications.

MICRO - 111: Plagues of Humankind

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

1. Describe how societies have dealt with outbreaks of disease.
2. Explain the role of public health departments.
3. Describe a disease event in history that has changed outcomes in times of conflict.

PSYCH - 141: Human Lifespan Development

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



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1. Describe and evaluate the major psychological theories of human development.
2. Explain and assess the methods of research used to study human development.
3. Apply the developmental research and theory to real-life situations.
4. Distinguish between universal influences and culturally specific influences on human development.
5. Compare and contrast the characteristics of each stage in the lifespan with preceding and subsequent stages.

SM - 331: Sheet Metal and Installation 1

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

1. Design and fabricate the typical locks and seams used to develop sheet metal fittings.
2. Develop simple pattern layouts and fabricate introductory sheet metal fittings.

SOCSC - 58: Student Leadership Development

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

1. Identify and describe the traits of a leader.
2. Write a personal mission statement.
3. Complete a personal organization plan.

SOCIO - 105: Introduction to Statistics for the Social & Behavioral Sciences

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

1. Summarize data sets using descriptive statistics.
2. Conduct hypothesis tests and interpret the results

WELD - 200: Arc and Gas Welding

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

1. Adjust a typical constant current power source in the SMAW mode to create single and multiple pass welds that meet industry standards.
2. Assemble and adjust a typical oxy-acetylene cutting apparatus and perform cutting operations on mild steel that meet industry standards.

WELD - 204: Gas Metal Arc Welding(G.M.A.W) & Flux Core Arc Welding (F.C.A.W)

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

1. Select and adjust controls on a constant voltage power source for Gas Metal Arc Welding and Flux Core Arc Welding applications and create welds on both ferrous and non-ferrous metals.
2. Identify and select Gas Metal Arc Welding and Flux Core Arc Welding electrode wire according to American Welding Society identification codes for welding applications on both ferrous and non-ferrous metals.



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WELD - 206: Gas Tungsten Arc Welding (G.T.A.W.)

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

1. Adjust controls on a constant current power source for gas tungsten arc welding (GTAW) applications and create welds on both ferrous and non-ferrous metals.
2. Select shielding gases based on their physical characters for welding applications on both ferrous and non-ferrous metals.

WELD - 300: Intermediate Welding

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

1. Use typical oxy/acetylene cutting equipment and saws to prepare groove weld joints that meet AWS D1-1 code and API 1104 code welding procedure specifications.
2. Use a typical constant current power source set in the SMAW mode to create groove welds that meet AWS D1-1 code and API 1104 code welding procedure specifications.

WELD - 325: Design and Fabrication Processes

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

1. Identify, develop and apply typical lines, views, notes, title blocks in print development.
2. Interpret and apply typical weld and welding symbols in print development and general, metal fabrication.

WELD - 340: Pipe Welding

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

1. Explain the terminology of pipe fit-up and identify various pipe and fittings.
2. Explain steps and procedures in preparing pipe joints for welding.
3. Develop the welds and weld joints illustrated on job sheet JS-2.
4. Develop the welds and weld joints illustrated on job sheet JS-3.

IV. CLOs Originating through CLO Update Only Process

A. Status Reports

1. CLOs Pulled for Revision at Previous OAW Meetings - Updates on Status of Revisions

- HUMSR 101 – Introduction to Human Services (2/7/14) (Eileen)
- HUMSR 111 – Counseling in Chemical Dependency (2/7/14) (Eileen)
- HUMSR 116 – Drugs and Alcohol in Society (2/7/14) (Eileen)
- HUMSR 118 – Pharmacology of Abused Substances (2/7/14) (Eileen)
- HUMSR 119 – Intro Group Ldrshp/Grp Process (2/7/14) (Eileen)
- PHILO 135: Environmental Ethics (11/1/13) (Eileen)
- SOCIO 150: Ethnicity and Culture in America (12/6/13) (Eileen)



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B. CLOs for Approvals (includes revisions from previous meetings and new submissions through CLO Update Only Process)

1. Revised CLOs Pulled Previously – Ready for Approval

None

2. NEW CLOs for Approval (from CLO Update Only Queue)

None

I. ACTION/DISCUSSION ITEMS

1. Due Dates for Fall CLO, PLO, ILO, GELO Assessments

January 31, 2015

What is still out from divisions?

I have received:

Physics
Biology
Political Science
Psychology
Business Administration
Office Administration
Plant Science
Autobody
French
German
Italian
Humanities

2. Spring 2015 PLO/ILO/GELO Assessments - Reminder

PLO/ILO/GELO only

Administration of Justice - PLO only
Computer Graphics - PLO only
Environmental Sciences - PLO only
Human Services - PLO only
Natural Resources - PLO only

PLO/ILO/GELO plus Program Review

Animal Science - PLO plus Program Review
Earth Science - PLO plus Program Review
Geology - PLO plus Program Review
History - PLO plus Program Review
Meteorology - PLO plus Program Review



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Music - PLO plus Program Review

3. Division Reporting on completion of CLO, etc processes
4. ELumen update

Next Meeting: March 6, 2015 in Yosemite Hall 213 1:00pm