



Opening Day 2010

Certificate, Degree Program Outcomes (CDPO) Identification

Activity Handout

Task: Identify and write outcomes for a Certificate, Degree or Program.

Instructions:

- Gather in groups of 3-4 people
- Use the strips in the envelope provided (which represent the course-level outcomes associated with the certificate, degree or program)
- Organize the course-level outcomes into groups based on common content/themes

• Use themes to develop outcome statements using the groups of themes.

Note: Outcome statements should be broad, measurable statements that represent what a student will be able to do upon completion of the set of courses in the certificate, degree or program.

An Example College Catalog presentation Certificate Outcomes

Napa College: Machine tool technology

This program prepares students for employment in the machinist and/or tool making trade. The courses cover setting up and operating basic machine tools such as lathes, milling machines, drill presses, grinders. Computerized machine tool programming and operation is also included. Emphasis is placed on the manufacture of component machine parts, using the materials removal process for metals and plastics. The course of study also includes precision measuring skills, blueprint reading, cutting tool design, shop mathematics, and efficient and economical sequencing of machine tooling operations.

The courses required to complete the major are: MACH 110, 111, 210, 211; DDGT 110; WELD 100; HUMA XXX; PHYS 110, 111; TECH 92, 107.

first semester	Units
MACH 110 Machine Technology 1.....	7
TECH 92 Technical Math 1	3
Social Science**	3
Elective*	1

second semester	Units
MACH 111 Machine Technology 2.....	7
TECH 107 Technical Math 2	3
WELD 100 Welding Theory 1	3
English Composition* (BUSI 105 or ENGL 120).....	3

third semester	Units
MACH 210 Machine Technology 3.....	7
DDGT 110 Technical Drawing Fundamentals	3
PHYS 110 Descriptive Physics.....	3
PHYS 111 Descriptive Physics Lab.....	1
Physical Education.....	1

fourth semester	Units
MACH 211 Machine Technology 4.....	7
Humanities	3
Elective*	3
Physical Education.....	2

* Electives: 2-4 units of elective course work is required to complete the degree program.

** ANTH 121, 180; CFS 140, 180; HIST 145, 150, 152; PSYC 128; SPEE 126 will double count for the A.S. Degree requirements in Multicultural/Gender Studies and Social Science.

Options

1. One-year Certificate: MACH 110, 111.
2. Certificate Program: MACH 110, 111, 210, 211; DDGT 110; WELD 100; PHYS 110, 111; TECH 92, 107.
3. A.S. Degree: All courses as listed. All courses required to complete the major must be completed with a grade of "C" or better. Consultation with the Program Coordinator is required.
4. Transfer to a baccalaureate degree granting institution: Consult the catalog of the college or university of your choice and a Napa Valley College counselor for specific requirements.

Student Learning Outcomes

Upon completion of the Certificate or AS Degree Major in Machine Tool Technology, it is intended that students will be able to:

- ***Demonstrate good work and safety habits, while using hand tools and power equipment.***
- ***Perform basic machining operations on lathes, mills, surface grinders and drill presses.***
- ***Perform basic measuring functions using precision measuring tools.***
- ***Read engineering drawing to accomplish required operations on machine tools.***
- ***Accomplish advanced lathe and mill processes, while working independently.***
- ***Understand tool geometry, carbide insert tooling. Calculate all required math to accomplish machining processes. Set-up, operate, and program basic CNC lathes and mills.***

An Example College Catalog presentation Program Outcomes

Santa Monica College: Earth Science

GEOLOGY:

Geology, encompassing all studies of Earth processes, is one of the cornerstone programs within the Earth Science Department. Geology students “acquire and develop knowledge and skills that equip them to be informed, engaged, and productive global citizens, capable of leading humanity toward a more sustainable future” by recognizing Earth as “the natural and cultural home of human beings, a continually evolving species”. Geology’s students use geologic tools of observation, measurement, examination and assessment to describe and identify various aspects of the Earth’s landscapes, oceans, and geologic processes, while developing an appreciation and awareness of the enormity of geologic time.

DEGREES & CERTIFICATES

Currently, there are no degrees or certificates offered in Geology.

CAREER OPTIONS (This list is not comprehensive)

Geologist Geochemist Teacher/College Professor
Petroleum Seismologist
Engineering Hydrologist
Environmental GIS Specialist
Marine Oceanographer
Mining Environmental Consultant
Groundwater Paleontologist

FACULTY

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PROGRAM LEVEL OUTCOMES

Upon completion of a Geology course:

- 1. Students will be able to use the scientific method to access, analyze, and critically observe their geologic environment.***
- 2. Students will use geologic tools of observation, measurement, examination and assessment to describe and identify various aspects of the Earth’s landscapes, oceans, geologic processes, while developing an appreciation and awareness of the enormity of geologic time.***

COURSES OFFERED IN GEOLOGY

Geology 1: Physical Geology
Geology 4: Physical Geology with Lab
Geology 5: Earth History with Lab
Geology 31: Physical Oceanography
Geology 35 (A-Z): Field Studies in Geology