NEW Course Proposal

For delivery to the Oregon Coast Community College Instructional Leadership Team (ILT).

Course information can be found in the online Oregon Coast Community College catalog, and sample Course Content and Outcomes Guides (CCOGs) can be requested from the Department of Academics and Workforce. This form is for the proposal of new courses for adoption by OCCC.

CCOG Creation Form:

Course Number: Math 111L

Course Title: Math 111Z Lab

Credit Hours: 1

Lecture Hours: Lecture/Lab Hours: Lab Hours: 33

(see http://handbook.ccwdwebforms.net/handbook/courses/definitions on how to calculate these numbers)

Pre/Co-Requisites: Math 111Z

Course Description: Focuses on foundation skills and concepts needed to be successful in Math 111Z (Precalculus 1: Functions). Provides support in algebra, problem solving, graphing, modeling, and study skills in an interactive setting.

Intended Outcomes for Course (3-5 required):

1. Perform appropriate algebra techniques for a variety of problems.
2. Apply problem solving strategies appropriately in various scenarios.
3. Demonstrate progression through learning objectives established between the student and instructor.

Course Activities and Design:

Instructors may employ the use of worksheets, online software, group activities and mini-lectures.

Outcome Assessment Strategies:

1. Active participation and effort
2. Personal program/portfolio
3. Individual student conference
4. Assignments
5. Pre/post evaluations

Extra (Course Content: Themes, Concepts, Issues, and Skills)/Optional:

Is this course intended to be a co/pre-requisite for another course, if so list all: Math 111Z

Is this course intended to be included in a degree/certificate, if so list all: No

Is this course intended to fulfill an educational requirement (cultural literacy, arts and letters, etc), if so list all and ensure CCOG content supports choice: No

What is the need and impact of this new course:

The math department received grant funding to a corequisite class in math 111Z. Corequisite courses shorten math pathways as well as close equity gaps.

Reason for Lab Class Model: Recently the state of Oregon has tasked Oregon colleges with creating a common course information (which includes course number, course name, course credit, course description, and course outcomes) for selected courses. This included math 111Z. In anticipation of keeping math 111Z in line with the common course information, we chose to create lab classes for the corequisite support.

Academic year and term course change intended to go into effect:

Year: 2023 ☐ Fall ■ Winter ☐ Spring ☐ Summer

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Proposer/s Name/s:

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Department: Math

Date of Submission: 11/2/23

See curriculum webpage for process flowchart, deadlines calendar, and General Education Philosophy Statement and definitions. Any additional questions can be sent to officeofinstruction@oregoncoastcc.org.

Checklist to include with this form for quickest processing:

Sample completed CCOG (see attached sample below for what it should look like)

Signature Form

Sample Syllabus, including

- list of required materials (books, articles, etc. with ISBN numbers)

SEE BELOW ATTACHED OCCC CCOG AS AN EXAMPLE OF FINAL CCOG.

Course Content and Outcome Guide for AQS 110

Course Number: AQS 110
Course Title: Aquarium Science Practicum 1
Credit Hours: 2
Lecture Hours: 0
Lecture/Lab Hours: 0
Lab Hours: 60

Course Description
Introduces aquatic animal husbandry work environment and the care of captive aquatic animals. Emphasizes daily animal care and exhibit readiness.

Intended Outcomes for Course

1. Prepare food for the animal collection and clean animal collection areas to industry standards.
2. Assist with opening and closing procedures at the aquatic facility.
3. Culture, harvest, and distribute live food organisms to the animal collection.
4. Interpret exhibits and aquatic animal work areas to facility patrons in a positive and informative manner.
5. Identify fishes and invertebrate behaviors
6. Design and implement a fish transport strategy.

Course Activities and Design
The format for this course is a combination of off campus experiential learning, lecture, and demonstration experience. Emphasis will be placed on the skills needed for performing normal job duties in a variety of fields related to the aquarium sciences, including scientific research, aquaculture, and educational display. Lectures will concentrate on higher level skills related to aquarium sciences including, but not limited to, specimen collection, mathematics, specimen transportation and acclimation, and workplace philosophy.

Outcome Assessment Strategies

- Off campus time spent with professional mentors developing husbandry skills as well as professional workplace personal interaction and task performance.
- Employee style evaluations twice per term evaluate student performance at off campus practicum site and growth throughout the term.
- In class exams to evaluate learning of higher level skills presented in lectures.

Course Content (Themes, Concepts, Issues and Skills)

Themes

- Day to day reality of aquarist work in a variety of different fields and settings.
- Professional networking within the aquarium science field.
- Higher level mathematics including medical dosing and algebraic manipulation of equations.
- Safe operation and troubleshooting of aquarium systems
- Career opportunities available within the aquarium science industry
- Professional philosophies of successful employees within the aquarium science industry.

Concepts

- Cleaning and care of exhibits or enclosures.
- Disinfection procedures and proper food handling.
- Diet preparation and animal feeding.
- Typical opening and closing procedures.
- Observation and documentation of different animal behaviors.
- Proper live animal and/or animal specimen handling.
- Verbal interpretation of exhibits or projects.

Issues

- Importance of dependability in the workplace.
- Balancing of budget and husbandry concerns.
- Managing, multi-tasking in a fast-paced environment.

Skills

- Goal setting and achievement in a professional environment.
- Fish and Invertebrate handling/transport.
- Diet planning, preparation, and delivery.
- Maintenance of assigned systems with limited direct supervision.
- Performance of husbandry tasks with limited supervision.
- Record and verbally recount work performed.
- Calculation of proper medical dosing through algebraic mathematics.

Revised: April 06, 2020