CHEM 2901

Division: Natural Science and Mathematics
Department: Chemistry
Course: CHEM 2901
Title: Sophomore Capstone
Catalog Description:

This capstone course forstudents majoring in the sciences, mathematics, or engineering is intended to broadentheir scientific horizons, acquaint them with various educational and careeropportunities in their fields, and actively prepare them for transfer to afour-year college or university. Repeatable for credit.

General Education Requirements: N/A
Semesters Offered: Fall, Spring
Credit/Time Requirement: Credit: .5; Lecture: 1; Lab: 0
Clock/Hour Requirements: 0
Offered for Non-Credit: No
Credit/Clock Comments: Repeatable for credit.
Prerequisites: most of a lower division preparation in a Science, Math, or Engineering major, see course instructor

Justification:

Thiscapstone course is intended as a continuation of what students started inStartSmart. Studentswill be e valuated on the electronic educational portfolio begun inStart Smart.

This course is intended to provide science majors help with further educational andcareer decisions.

The seminar portion of this course is intended to be a parallel university experience. This portion of the course is intended to broaden students'outlook and exposure to diverse scientific topics. Other institutions in Utah offersimilar undergraduate (at the freshman and sophomore levels) seminar courses in fields like engineering, math, andphysics.

Student Learning Outcomes:

Studentswill learn about a wide variety of science and math topics by attending theweekly seminar.

Studentswill give a scientific or mathematical presentation demonstrating skills acquired at Snow College.

Studentswill add to their electronic educational portfolio, and learn to use it forfuture opportunities.

Students will discuss their educational andprofessional future with a discipline-specific adviser at another college oruniversity.

Content:

VariousScientific and Mathematical Topics

Presentations at theweekly division seminar are given by SnowCollege faculty, students, and visiting presenters.

Professional presentations

Each student will givea presentation on a scientific or mathematicaltopic for the division seminar.

ElectronicEducational Portfolio

Each student willupdate the electronic portfolio which should contain educational artifacts, reflective exercises, and evidence that the students have met Snow College outcomes appropriate to their degree.

Preparingto transfer to a 4-year institution

Studentswill contact advisors at a 4-year transfer institutionto discuss articulation and their future educationalplans.

General Education Outcomes:

7) Apply scientific reasoning to a variety of contexts.

Students will be exposed to a wide variety of science and mathematical topics as they attend the weekly division seminar. Students will prepare and deliver a presentation on a topic of their choice at the division seminar. Students will receive feedback on their presentation from those in attendance.

Key Performance Indicators:

The finalgrade will be based on the following category weightings (percentages areapproximate):

50% Attendanceat the NS Division seminar (one absence can be made up by attendinganother instructor approved scientific event)

10% Presentationat the NS Division seminar

30% Educationale-Portfolio

10% Contactingadvisors at transfer institutions

Students will meet with the instructor at thebeginning of the semester to determine an individualized course of study.

Representative Text and/or Supplies:

Optimum Class Size: 12
Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

_____

Dan Black, EdD, Associate Professor

I hereby find this course consistent with the goals and resources of the Chemistry Department:

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Mark Wathen, PhD, Assistant Professor, Chair

I hereby find this course consistent with the goals and resources of the Natural Science and Mathematics Division:

_____

Dan Black, EdD, Associate Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

_____

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

_____

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)