

COLLEGE OF SCIENCE (COS)

100 Level Courses

COS 120: *Introduction to Research*. 1-3 credits.

Introduction to research, involving work on a research project. May involve lab study, computer modeling and analysis, mathematics, or other original research as appropriate. Research formulated and completed under instructor's guidance. Culminates in a written or oral final report. Offered by College of Science. May be repeated within the degree for a maximum 6 credits.

Schedule Type: Independent Study

Grading:

This course is graded on the Undergraduate Regular scale.

300 Level Courses

COS 300: *Professional Preparation for STEM Disciplines*. 3 credits.

Prepares any undergraduate major that is interested in enhancing their competences in science writing, technical communication and social media skills. Students will be prepared to become more competitive in the next generation workforce. Covers these topics: drafting and revising papers, dissecting scientific journal articles, communicating science to non-scientists, creating a podcast, writing grant proposals, and preparing CVs, resume and "elevator pitches." By the end of the course, the student will not only be familiar but more confident in effectively disseminating information in their own field of interest. Offered by College of Science. Limited to three attempts.

Recommended Prerequisite: ENGH 302 or its equivalent and COMM 100 or COMM 101 or their equivalents. Students should be at the sophomore level or above.

Schedule Type: Lecture

Grading:

This course is graded on the Undergraduate Regular scale.

400 Level Courses

COS 400: *Problem Solving and Leadership in STEAM*. 3 credits.

In this course, participants will experience a hands-on approach to incorporating global problem solving principles into the STEAM (Science, Technology, Engineering, Arts and Mathematics) disciplines and consider implications for application in research and development. This course consists of face to face meetings, follow up webinars and a collaborative project. Notes: This course will culminate with international travel; locations will vary by semester. Offered by College of Science. Limited to three attempts.

Schedule Type: Lecture

Grading:

This course is graded on the Undergraduate Regular scale.

COS 401: *RS: Discipline Based Education Research*. 2-3 credits.

Students will conduct an original Discipline-Based Education Research (DBER) project with their faculty mentor and STEM Accelerator faculty mentor. Offered by College of Science. Limited to three attempts.

Specialized Designation: Research/Scholarship Intensive

Schedule Type: Independent Study

Grading:

This course is graded on the Undergraduate Regular scale.

COS 402: *Special Topics in Science*. 1-4 credits.

Explore an array of exciting topics in science; the course's topic will vary by section offered. Offered by College of Science. May be repeated within the term for a maximum 8 credits.

Schedule Type: Lecture

Grading:

This course is graded on the Undergraduate Regular scale.

500 Level Courses

COS 500: *Professional Preparation for STEM Disciplines*. 3 credits.

Prepares graduate students that are interested in enhancing their competences in science writing, technical communication and social media skills. Students will be prepared to become more competitive in the next generation workforce. Covers these topics: drafting and revising papers, dissecting scientific journal articles, communicating science to non-scientists, creating a podcast, writing grant proposals, and preparing CVs, resume and "elevator pitches." By the end of the course, the student will not only be familiar but more confident in effectively disseminating information in their own field of interest. Offered by College of Science. May not be repeated for credit.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

600 Level Courses

COS 600: *Multidisciplinary Problem Solving and Leadership*. 3 credits.

Participants will experience a hands-on approach to incorporating global problem solving principles into the STEAM (Science, Technology, Engineering, Arts and Mathematics) disciplines and consider implications for application in research and development. This course consists of face to face meetings, follow up webinars and a collaborative project. Notes: This course may culminate with international travel, locations will vary by semester. Offered by College of Science. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

COS 602: *Special Topics in Science*. 1-4 credits.

Explore an array of exciting topics in science; the course's topic will vary by section offered. Offered by College of Science. May be repeated within the term for a maximum 8 credits.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.