

FUTURE UNDERGRADUATE SCIENCE EDUCATORS (FSE)

College of Biological Sciences

FSE 301 – Developing Teaching Resources (2 units)

Course Description: Development of curricular materials relevant to undergraduate science courses including complete learning outcomes, lesson plans, learning activities, assessments, data from implementation, and student or peer evaluation of material.

Learning Activities: Lecture/Discussion 2 hour(s).

Enrollment Restriction(s): Open to graduate students admitted to the Future Undergraduate Science Educators (FUSE) Graduate Academic Certificate program only.

Grade Mode: Satisfactory/Unsatisfactory only.

FSE 305 – Building a Teaching Portfolio (2 units)

Course Description: Development of a professional and comprehensive teaching portfolio including a teaching philosophy statement, teaching resume/CV, cover letter, reflection on teaching and professional development experiences, sample curricular materials, student evaluations, and peer evaluation. Careers in higher education.

Learning Activities: Lecture/Discussion 2 hour(s).

Enrollment Restriction(s): Open to graduate students only.

Grade Mode: Satisfactory/Unsatisfactory only.

FSE 310 – Effective Teaching of College Biology (3 units)

Course Description: Undergraduate science education pedagogy. Evidence-based practices in undergraduate science course design, structure and facilitation of classroom learning, assessment, student engagement, inclusion of diverse learners, and the use of technology in enhancing learning.

Learning Activities: Lecture/Discussion 3 hour(s).

Enrollment Restriction(s): Open to graduate students only.

Grade Mode: Letter.

FSE 391 – Scholarship of Teaching & Learning Seminar (2 units)

Course Description: Research articles on the scholarship of teaching and learning. Current trends in undergraduate level pedagogical research methods and results.

Learning Activities: Lecture/Discussion 2 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.

FSE 392 – Teaching Practicum in the Sciences (2-6 units)

Course Description: Teaching practicum in a college-level science course. Planning and facilitation of class sessions in a college-level setting. Assessment of student learning under the guidance of a science faculty mentor. Teaching assignments must be approved by the instructor of record and the students' thesis advisor.

Prerequisite(s): Consent of instructor.

Learning Activities: Internship 1-3 hour(s).

Enrollment Restriction(s): Open only to graduate students enrolled in the Future Undergraduate Science Educators (FUSE) Graduate Academic Certificate program.

Grade Mode: Satisfactory/Unsatisfactory only.