Proposals for CEM-URE (curriculum-embedded undergraduate research experience)

This is a call for research projects to be carried out by undergraduate students. The proposed projects will be conducted in the appropriate labs and under the supervision of the faculty who proposed them. Proposals should be submitted to Dr. Josué Njock Libii, ET 321K (libii@engr.ipfw.edu). Proposals will be posted on the web page of the Undergraduate Projects Laboratory.

Target audience

The target audience of the proposal is undergraduate students enrolled in the engineering department at IPFW. Students in other closely-related majors may also qualify.

Eligibility for faculty

Any full-time faculty of the engineering department may submit one or more proposals. The submission of a proposal constitutes a tacit willingness by the proposing faculty to guide and supervise the work of selected students until completion.

Eligibility for students

Any student, or pair of students, enrolled in the engineering department, and whose academic record demonstrates high achievement (minimum cumulative GPA in Engineering of 3.2/4.0) may apply for participation in this undergraduate research program. Students in related departments may also be eligible. Ordinarily, students who have achieved junior- or senior-class standing in an engineering curriculum are the primary target of this program. Interested students must submit their applications to the faculty who authored the proposal(s) in which they are interested. A copy of the application must be sent to Dr. Njock Libii, Ph.D, ET 321K. However, it is entirely the responsibility of the faculty who proposed the project to decide whether or not an applicant qualifies for admission.

Scope of work and credits

The proposed project must be scoped, designed, and structured so as to qualify for a technical-elective course to be used by the student in the appropriate engineering curriculum, e.g. CE 490 - Selected Topics in Civil Engineering, ECE 496, or ME 498 – Research in Mechanical Engineering I.

Duration of the course

Ideally, the proposed project should be completed in the semester in which it was started. However, it is expected that, in some cases, stretching the project over two semesters may be preferable: one credit hour during the first semester and two credit hours during the second, or vice versa. Accordingly, it is recommended that the expectation for, the work load of, and the anticipated duration of the course be discussed explicitly with the student(s) at the beginning of the course and be put in writing, for clarity.

Outcomes

It is expected that the final outcomes of the work will be an oral presentation of the results of the work at a seminar or conference, and a publishable paper co-written with the supervisor. The paper should be published through an appropriate outlet chosen by the research supervisor.