



For graduation, students must obtain a grade of “C” or better in each calculus course, each physics course, and each Electrical Engineering core course, and students must obtain a 2.0 GPA in all Electrical Engineering courses attempted.

The department maintains a flowchart that lists all of the coursework required in the program which is reviewed with the student on a regular basis by the Undergraduate advisor. The students are required to meet with their advisor each semester before registration for classes. Failure to maintain satisfactory progress in the program will initiate review by the Department.

For students participating in the Cooperative Education Program, industry supervisors will evaluate students on content knowledge, communication skills, and critical thinking skills. Possible outcomes for a student who receives an unsatisfactory evaluation include repeating an industrial placement or portion of the placement, tutoring, additional coursework, or removal from the Cooperative Education Program with no credit given.

CONTENT KNOWLEDGE (Technical Skills, Research Skills): Students will formulate and analyze problems, and synthesize and develop appropriate solutions based on fundamental principles. Students will recognize and apply concepts, principles, and theories in mathematics (including differential, integral and vector calculus, differential equations, probability and random processes and matrix theory); Physics; and the

technical knowledge and research skills using an evaluation instrument developed for this purpose. This is done for both courses in the design sequence. Students receiving an unsatisfactory evaluation in EGN 4410C will not be allowed to continue into EGN 4411C and will be required to restart the sequence in a following semester.

COMMUNICATION (Written Communication, Oral Communication, Team/Collaborative Communication): Students will communicate effectively in writing, convey technical material through oral presentations and function effectively in multidisciplinary teams.

In EGN 1002 Fundamentals of Engineering (freshman level), students are required to write reports, make oral presentations and function in teams to perform design projects which are evaluated by the faculty member in charge of the course. In the laboratory sequence (EEL 3118L Lab 1 and EEL 4119L Lab 2) students work in teams to perform experiments and prepare individual technical reports. In the core course EEL 3012 Electrical Engineering Practice students communicate verbally and in writing about contemporary issues in a global and society context with Electrical Engineering solutions and about engineering ethics in EGNs. 26TD-0003101142.006TD0(TT31TjT62D(purpos)6.2(e).

incorporate the above criteria. A team of three faculty will evaluate these Capstone Design Project reports and oral presentations to these criteria. In performing the evaluations, the faculty members use their professional judgment and an assessment instrument developed for this purpose to evaluate communication skills and critical thinking skills, with respect to both individual students and student teams. Students receiving an unsatisfactory evaluation in EGN 4410C Engineering Design 1 will not be allowed to continue into EGN 4411C Engineering Design 2 and will be required to restart the sequence in a following semester.

