

# PURDUE

UNIVERSITY

**SCHOOL OF ELECTRICAL  
AND COMPUTER ENGINEERING  
UNDERGRADUATE COUNSELING OFFICE**

Engineering Faculty Document 85-19  
January 30, 2019  
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To: The Engineering Faculty  
From: School of Electrical and Computer Engineering  
Re: ECE 29401

The School of Electrical and Computer Engineering has approved the following new course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**ECE 29401 Electrical and Computer Engineering Sophomore Seminar**

Lecture: 1 credit

Semesters offered: Fall, Spring

Non-repeatable

Pre-requisites: Must be a student in the School of Electrical and Computer Engineering

**Course Description**

An introduction to the School of Electrical and Computer Engineering, the program's objectives, and outcomes, BSEE and BSCmpE degree requirements, and multicultural and professional development.

**Reason**

This courses is a starting point for ECE students to not only understand their degree requirements and how to meet them, but to build on their professional and ethical development in and out of the classroom.

**History of Previous Offering**

This course was previously offered as ECE 20000, a 0-credit course, but is now being moved to a 1-credit course and will serve as the first in a three-course sequence: ECE 29401 – ECE 39401 – ECE 49401. This sequence of courses is designed to introduce, develop and master ethical and professional development of our ECE students.



Michael R. Melloch, Associate Department Head of ECE

<b>Date</b>	<b>Topic</b>	<b>Presenter</b>	<b>Preparation</b>	<b>Homework Due at beginning of Class</b>	<b>Make-Up Assignment</b>
Week 1	Course Introduction/IDI	Instructor	Review ECEUGO website, ECE 20000	None	None
Week 2	Building Your Professional Resume	CCO	Bring with you two hard copies of your resume	Turn in 1 copy of your resume	Meet with CCO to review a hard copy of your resume and submit that copy with edit marks to the instructor.
Week 3	How to Enhance Your Learning Part 1	Mike Melloch, ECE Associate Dept. Head	Read Chapters____of "Working Smarter, Not Just Harder" before coming to class.	Scavenger Hunt	See Week 4
Week 4	How to Enhance Your Learning Part 2	Mike Melloch, ECE Associate Dept. Head	Read Chapters____of "Working Smarter, Not Just Harder" before coming to class.	Final draft of your resume	Review the slides from the presentations in week 3 and 4, and write a 1000-word essay on what you need to do to enhance your learning as you continue your ECE career.
Week 5	Electrical Engineering Overview (BSEE only)	Instructor	Review degree requirements on ECEUGO, update SEP in myPurdue. Bring laptop	500-word essay on why you are interested in electrical engineering.	Meet with instructor to go over degree requirements and SEP. You will be leading this meeting so come prepared.
Week 6	Computer Engineering Overview (BSCmpE only)	Instructor	Review degree requirements on ECEUGO, update SEP in myPurdue. Bring laptop	500-word essay on why you are interested in computer engineering.	Meet with instructor to go over degree requirements and SEP. You will be leading this meeting so come prepared.
Week 7	Lab Safety	Lab Coordinator	None	None	Review the presentation and complete the Lab Safety Quiz.
Week 8	Study Abroad	Study Abroad Coordinator/students	None	None	Interview two students in ECE who have studied abroad, and write a 1000-word essay on your findings.

Week 9	Experiential Learning: EPICS, VIP and ECE Research	VIP/EPCS faculty	None	None	Interview two students in who have participated in EPCS or VIP, and write a 1000-word essay on your findings.
Week 10	Professional Ethics	Instructor	Review IEEE Code of Ethics.	500-word essay on your instructor interview.	Review the IEEE Code of Ethics.
Week 11	IDI Debriefing	TBD	None	500-word essay on what it means to be an ethical student and engineer.	Conduct an IDI debriefing with person to be identified.
Week 12	Area Panel	ECE Faculty	Review the three tracks of ECE degree for presenting areas.	None	Interview a faculty member from one of the presenting areas, review the area description on our website and write a 1000-word paper on your findings.
Week 13	Area Panel	ECE Faculty	Review the three tracks of ECE degree for presenting areas.	None	Interview a faculty member from one of the presenting areas, review the area description on our website and write a 1000-word paper on your findings.
Week 14	Student Panel	ECE Students	None	500-word essay on which track from Weeks 11 and 12 you are planning to follow and why.	Interview two students in ECE on their best advice to succeeding in ECE, and write a 1000-word essay on your findings.

**The topics of the presentations are subject to change so please check the ECE 20000 website the night before class.**

[https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/Curriculum\\_Resources/ECE\\_20000](https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/Curriculum_Resources/ECE_20000)

### **Course Outcomes**

A student who successfully fulfills the course requirements for ECE 29401 will have demonstrated a knowledge of the ECE educational objectives & required outcomes as well as the BSEE and BSCmpE degree requirements. In addition, he/she will have demonstrated an ability to prepare a satisfactory personal plan of study using SEP in myPurdue Plan, write effectively in the English language and have an appreciation for ethical professional and academic conduct.

## **Grading**

This class will be graded on the basis of attendance and homework assignments. A student is allowed one absence but must complete the in-class or make-up assignment assigned for that day, and turned in to the instructor no later than 5 p.m. the day before the next week's class.

## **Attendance**

Attendance is required and expected (unless you are ill), and is taken 10 minutes after the start of class. If you arrive to class after attendance, you are considered absent. I encourage you to stay for the session as the information is beneficial and we will discuss what you need to do for the make-up assignment. You are allowed one absence without jeopardizing your grade; however, you must complete the original or make-up assignment for that session. If you miss a second time, you need to meet with the instructor. A third absence puts you at risk of failing the course and you will need to repeat the course in the following semester.

## **Academic and Professional Honesty**

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing [integrity@purdue.edu](mailto:integrity@purdue.edu) or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provides the greatest opportunity for the university to investigate the concern. The ECE faculty expects every member of the Purdue community to practice honorable and ethical behavior both inside and outside the classroom. Any actions that might unfairly improve a student's score (or hurt another student's score) on homework, quizzes, or examinations will be considered cheating and will not be tolerated – any infraction will result in a grade of 'U' (Unsatisfactory) for the course and be reported to the ECE Associate Head for Instruction as well as the Office of the Dean of Students for possible disciplinary action. For ECE 20000, examples of cheating include (but are not limited to) falsifying attendance and/or representing someone else's work as your own for class assignments and make-up assignments. In addition, all ECE students are expected to know and uphold the IEEE Code of Ethics to ensure you are a responsible engineer and representative of your field during all co-op and internship sessions, full-time employment and/or graduate school.

## **Diversity and Inclusion**

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life. Purdue's nondiscrimination policy can be found at: [http://www.purdue.edu/purdue/ea\\_eou\\_statement.html](http://www.purdue.edu/purdue/ea_eou_statement.html).

## **Students with Disabilities**

*"Purdue University strives to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let me know so that we can discuss options. You are also encouraged to contact the Disability Resource Center at: [drc@purdue.edu](mailto:drc@purdue.edu) or by phone: 765-494-1247." <http://www.purdue.edu/drc/faculty/syllabus.html>*