



Memo

To: Randy Smith, Vice Provost for Academic Programs, Office of Academic Affairs
From: Cory Matyas, Assistant Dean for Curriculum and Assessment
Date: January 28, 2026
Re: Informational Item – Electrical & Computer Engineering Ethics Update

The Department of Electrical and Computer Engineering is requesting an update to their Ethics requirement to add more options. Currently they accept Philosophy 2338 and Philosophy 1332. They are requesting to add both Philosophy 2332.01 and Philosophy 2332.02 as options for all ECE students effective immediately.

The Engineering College Committee on Academic Affairs met on January 28, 2026 reviewed this proposal as an informational item. There were no questions or concerns and a College-level record of support for this proposal was created.

Electrical and Computer Engineering Program Update

For Consideration by the CCAA

Dr. Betty Lise Anderson, Associate Chair, ECE

12/2/2025

1) Program update request detail

The Department of Electrical and Computer Engineering department is requesting an update to our Ethics requirement for both the Electrical Engineering Program of Study and the Computer Engineering Program of Study. The request is to add more options to our Ethics requirement. Currently we accept Philosophy 2338 and Philosophy 1332. We are requesting to add both Philosophy 2332.01 and Philosophy 2332.02 as an option for all ECE students.

2) Rationale for the update

Students in the ECE department are required to complete an ethics course as part of the curriculum. With the Philosophy department offering additional ethics courses that have been reviewed and approved by our faculty, these courses are considered acceptable options to fulfill the requirement.

3) Effective Semester: As soon as possible

4) We are requesting that this change apply to all ECE students since this request allow for more options.

Bachelor of Science Electrical and Computer Engineering - Specialization: Computer Engineering

Students in this major will complete a minimum of 128 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	ACADAFF 1201	1
Foundations: Writing and Information Literacy	<i>Student Choice</i>	3
Foundations: Mathematical & Quantitative Reasoning/Data Analysis	<i>Student Choice*</i>	0-5
Foundations: Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Foundations: Historical & Cultural Studies	<i>Student Choice</i>	0-3
Foundations: Natural Science	<i>Student Choice*</i>	0-5
Foundations: Social & Behavioral Sciences	<i>Student Choice</i>	3
Foundations: Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World	<i>Student Choice*</i>	4
Theme: Student Choice	<i>Student Choice</i>	4
GE Reflection	Capstone**	Embedded into Major Core Capstone
Total		21-34

College / Degree Requirements ^{a, b}		
Requirement	Course Options	Hours
MATH 1151*, 1172*, (Math & Quantitative Reasoning / Data Analysis)		10
PHYSICS 1250* (Nat Sci)		5
ENGR 1181.0x, 1182.0x		4
ENGR 1100.01		1
Total		20

Major Coursework ^{a, b}		
Course	Title	Hours
Major Core		
ECE 2060	Digital Logic	3
ECE 2020	Analog Systems & Circuits	3
ECE 2050	Discrete Time Signals & Systems	3
ECE 2560	Microcontrollers	2
CSE 2221	Software Development I	4
ECE 3020	Intro to Electronics	3
CSE 2321	Foundations I	3
CSE 2231	Software Development II	4
ECE 3027	Electronics Lab	1
ECE 3561	Advanced Digital Design	3
ECE 5362	Computer Architecture Design	3
ECE 3567	Microcontrollers Lab	1
ECE 3906	Capstone Design I	4
ECE 4905**	Capstone Design II	3
Total		40

Required Non-Major General Courses		
PHYSICS 1251	E&M, Waves, Optics, Modern Physics	5
CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
ISE 2040	Engineering Economics	2
MATH 2568	Linear Algebra	3
MATH 2415	Ordinary and Partial Differential Equations	3
STAT 3470	Introduction to Probability and Statistics for Engineers	3
PHIL 1332, 2338, 2332.01 or 2332.02	Ethics in the Professions: Introduction to Engineering Ethics / Computing Ethics for a Just and Diverse World	3-4
Total		22-23

Required Technical / Directed / Targeted Electives; Career Courses		
Technical	List of courses organized by domains .	12
Directed	List of courses	13
Total		25

General Education	21-34
College / Degree	20
Major Core	40
Required Non-Major	22-23
Required Technical/Directed/Targeted Electives; Career Courses	25
Minimum Total Credit Hours for Degree	128

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