

COLLEGE OF ENGINEERING

- Any engineering major may declare a "Minor in Robotics Engineering" field of study, which will be listed on the student's academic record after graduation. Requirements may be satisfied by completing 18 credit hours. Student must complete one of the following options, as well as an additional two courses (6 credits) from the list of supporting courses. Major does not restrict the choice of option.

Option 1, Ocean Engineering Focus: (12 credits)

Linear Algebra (MTH 215)

Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall semester)

Robotic Ocean Instrumentation Design (OCE360)

Design of Remotely Operated Vehicles (OCE467)

Option 2, Mechanical Engineering Focus: (12 credits)

Linear Algebra (MTH 215)

Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall semester)

Control Systems (MCE431)

Mechatronics (MCE433)

Option 3, Electrical Engineering Focus: (12 credits)

Python (EGR 241 offered Spring Semester)

Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall Semester)

Digital Control Systems & Lab (ELE 458/459) (offered Spring Semester) Intro

AIML for Engineering Applications (EGR 441) (offered Spring Semester)

Supporting Courses: (Choose 2 other courses - 6 credits total.)

Offered during a typical Fall semester		
Electrical	Advanced AI/ML for Engineering Applications	EGR444
	Building Tools with Generative AI	EGR404
	Internet of Things	ELE492/594
Mechanical	Mechatronics	MCE433
Ocean	Robotic Ocean Instrumentation Design	OCE360
	Hydrodynamics	EGR515

Offered during a typical Spring semester		
Electrical	Microprocessors	*ELE205/206
	Intro AI/ML for Engineering Applications	EGR441
	Digital Control Systems & Lab	ELE458/459
	Linear Control Systems	ELE503
	Computer Vision	ELE583
Mechanical	System Dynamics	**MCE366
	Control Systems	MCE431/ELE457
	Real-Time Monitoring and Control	MCE530
	The Mechanics of Robot Manipulators	MCE566
Ocean	Design of Remotely Operated Vehicles	OCE467
	Biomimetics in Ocean Engineering	OCE516
	Modeling, Simulation, and Control of Marine Vehicles	OCE562
Oceanography	Modern Oceanographic Imaging and Mapping Technique	OCG555

*may not be counted toward minor requirements for ELE majors

**may not be counted toward minor requirements for MCE majors


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- With prior approval, supporting courses may be substituted with appropriate other courses

including special projects.

- To file this form, once signatures of Program Coordinator and Department Chairperson are obtained, please submit this form via the COE Online portal or drop-off at Bliss Hall 420.

Name: _____ Student ID #: _____

Major: _____ Intended Graduation Date: _____

Name of Minor: Robotics Engineering
Focus Area (select one): Ocean / Mechanical / Electrical

Course Number	Course Title	#Credits	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Ocean, Mechanical, or Electrical Engineering Robotics Program Coordinator Signature

Date

Once signatures obtained above, please submit this form via the
COE Online portal or drop-off at Bliss Hall 420.



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Assistant Dean for Undergraduate Affairs

Date

Program Coordinators

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