

- 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 three courses (9 credits) from the list of supporting courses. The choice of option is not restricted by major.

Option 1, Ocean Engineering Focus: (9 credits)

Ocean Engineering: Robotic Ocean Instrumentation Design (OCE360)
 Ocean Engineering: Design of Remotely Operated Vehicles (OCE467)
 Math: Linear Algebra (MTH215)

Option 2, Mechanical Engineering Focus: (9 credits)

Mechanical Engineering: Computer Control of Mechanical Systems (MCE431)
 Mechanical Engineering: Mechatronics (MCE433)
 Math: Linear Algebra (MTH215)

Option 3, Electrical Engineering Focus: (9 credits)

Electrical Engineering: Digital Control Systems & Lab (ELE 458/459)
 Electrical Engineering: Mobile Computing (ELE 470)
 Math: Linear Algebra (MTH215)

Supporting Courses: (Choose 3 other courses - 9 credits total.)

*ELE 205/26 cannot be used by ELE majors toward satisfaction of the minor requirements

Offered Fall Semester		
Electrical	Mobile Computing	ELE470
Mechanical	Mechatronics	MCE433
Ocean	Robotic Ocean Instrumentation Design	OCE360
	Hydrodynamics	EGR515

Offered Spring Semester		
Electrical	Microprocessors	*ELE205/206
	Digital Control Systems & Lab	ELE458/459
	Computer Vision	ELE583
Mechanical	System Dynamics	MCE366
	Computer Control of Mechanical Systems	MCE431
	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

- With prior approval, supporting courses may be substituted with appropriate other courses including special projects.
- Application for the robotics engineering minor must be filed in the Engineering Dean’s Office at least one semester prior to expected graduation.

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

 Departmental Chairperson Signature Date

 Dean's Signature Date

Program Coordinators

Mechanical Engineering Focus

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