UNIVERSITY OF RHODE ISLAND

ROBOTICS ENGINEERING MINOR

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)

Linear Algebra (MTH 215) Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall Semester) Digital Control Systems & Lab (ELE 458/459) Mobile Computing (ELE 470)

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

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

Offered during a typical Spring semester				
Electrical	Microprocessors	*ELE205/206		
	Digital Control Systems & Lab	ELE458/459		
	Computer Vision	ELE583		
Mechanical	System Dynamics	**MCE366		
	Control Systems	MCE431		
	Real-Time Monitoring and Control	MCE530		
	The Mechanics of Robot Manipulators	MCE566		
Ocean	Design of Remotely Operated Vehicles	OCE467		
	Biomimetrics 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

- 2. With prior approval, supporting courses may be substituted with appropriate other courses including special projects.
- 3. Application for the robotics engineering minor must be filed in the Engineering Dean's Office any time before graduation.

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Name:	Student ID #:				
Major:	uation Date:				
Focus	Name of Minor: Robotics Engineering Focus Area (select one): Ocean / Mechanical / Electrical				
Course Number	Course Title	#Credit	s Grade		
Ocean, Mechanical, or Electrical Engin	eering Robotics Program Coordinator Sigr	ature Date			
Assistant Dean's Signature		Date			
Program Coordinators					
Mechanical Engineering Focus Musa Jouaneh, Professor	Ocean Engineering Focus Stephen Licht, Assoc. Professor	Electrical Engineering Focus Richard Vaccaro, Professor			
Department of Mechanical, Industrial, and Systems Engineering University of Rhode Island	Department of Ocean Engineering University of Rhode Island 215 South Ferry Rd., Sheets 211 Narragansett, RI 02882	Department of Electrical, Computer, and Biomedical Engineering University of Rhode Island			
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