

ABET Review: SCR Spring 2025

4/22/2025

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SCR Group Chair

1. SCR Enrollment Data

Course	Title	Credits	Instructor	Aut23	Win24	Spr24	Aut24	Win25	Spr25
399 (new 347)	Introduction to Robotics	4	Makhsous	28			30		
447	Control System Analysis I	4	Ingraham	43			30		
447	Control System Analysis I	4	Makhsous			34			
447	Control System Analysis I	4	Hannaford						63

2. ABET End of Course Report Information

Missing Quarter	Course	Instructor	Reason
Aut 24	EE447	Ingraham	Returned for amendment
Aut 24	EE399	Makhsous	Not done
Spr 25	EE447	Hannaford	TBD

<https://webapps.ece.uw.edu/abet/reports>

Issues/Suggestions:

399: Add more content about ROS, Simscape. Cut some robotic analysis concepts.

447: Integrate more active learning; MCD needs to list prerequisite courses

ABET Outcomes

Course	Title	Instructor	Quarter Assessed	ABET Outcome (Nov/Dev/Comp/Exemp) Novice/Developing/Competent/Exemplary						
				1	2	3	4	5	6	7
399	Introduction to Robotics	Makhsous	Aut 23	No Outcomes Assigned						
399	Introduction to Robotics	Makhsous	Aut 24	No Outcomes Assigned						
447	Control System Analysis I	Burden	Aut 23	0/2/1/3	2/1/3/0	NA	NA	NA	NA	NA
447	Control System Analysis I	Ingraham	Aut 24	1/2/1/5	NA	NA	NA	NA	NA	NA
447	Control System Analysis I	Makhsous	Spr 24	0/2/2/5	0/2/2/5	NA	NA	NA	NA	NA
447	Control System Analysis I	Hannaford	Spr 25							

- ABET Outcomes
1. Problems
 2. Design
 3. Communication
 4. Responsibility
 5. Teams
 6. Experiment
 7. Learning

3. Student Course Evaluations

Course	Instructor	Quarter	Particiapted	Adj. Combined Median	CEI	Hours/Cr (2.5-3.0)
399	Makhsous	Aut 23	26/28	3.8	5.1	2.7
399	Makhsous	Aut 24	25/30	4.3	5.3	2.6
447	Burden	Aut 23	8/43	4.1	5.1	2.4
447	Makhsous	Spr 24	32/34	4.5	4.8	2.2
447	Ingraham	Aut 24	14/30	4.7	4.6	2.5
447	Hannaford	Spr 25				

4. Additional Information

- 1) How is enrollment for the courses incentivized, if at all?
 - Pathways Panel; new robotics courses
- 2) Are the course loads consistent with the number of credit hours offered for the courses?
 - Yes
- 3) Which courses are “lab heavy” and which are not?
 - Labs: 399 and new 448/449
- 4) For capstone course (if part of the group offerings) how is the consideration and/or use of industry standards explicitly required in the course, and how is it assessed.
 - N/A