ABET Review: SCR
Spring 2026

5/8/2026

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SCR Group Chair

1. SCR Enrollment Data

Course	Title	Credits	Instructor	Aut24	Win25	Spr25	Aut25	Win26	Spr26
347 (399)	Introduction to Robotics	4	Makhsous	30			30		
347	Introduction to Robotics	4	Raiti					30	
447	Control System Analysis I	4	Ingraham	30			47		
447	Control System Analysis I	4	Hannaford			64			
447	Control System Analysis I	4	Jing Yu						53
448	Control Systems Laboratory	4	Burden					23	

2. ABET End of Course Report Information

Missing Quarter	Course	Instructor	Reason
Aut 2025	347	Makhsous	Assigned for review

Emailed on 5/6/26

https://webapps.ece.uw.edu/abet/quarterly_courses

Issues/Suggestions:

447: Aut 24 (Ingraham): This offering of the course did not have a student project, so we were unable to assess outcome 2 (Design).

447: Spr 25 (Hannaford): "Design" has a narrow interpretation in an intro control course and is hard to relate to societal factors in a meaningful sense.

448: Wtr 26 (Burden): This course partially fills a critical gap in our curriculum by providing hands-on experience to students interested in controls and robotics with real hardware, requiring them to work with embedded systems programming constraints, real-world sensor and actuator limitations, and the gap between theory and reality.

ABET Outcomes

Course	Title	Instructor	Quarter Assessed	ABET Outcome (Nov/Dev/Comp/Exemp) Novice/Developing/Competent/Exemplary						
				1	2	3	4	5	6	7
447	Control System Analysis I	Ingraham	Aut 24	1/2/1/5	Not reported					
347 (399)	Introduction to Robotics	Makhsous	Aut 24	No outcomes assigned						
447	Control System Analysis I	Hannaford	Spr 25	1/2/3/6	4/2/1/5					
347	Introduction to Robotics	Makhsous	Aut 25	missing						
447	Control System Analysis I	Ingraham	Aut 25	0/1/4/4	Not reported					
347	Introduction to Robotics	Raiti	Wtr 26	No outcomes assigned						
448	Control Systems Laboratory	Burden	Wtr 26	No outcomes assigned						

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)
447	Ingraham	Aut 24	14/30	4.7	4.6	2.5
347 (399)	Makhsous	Aut 24	25/30	4.3	5.3	2.6
447	Hannaford	Spr 25	7/64	3.3	5.5	2.2
347	Makhsous	Aut 25	26/30	4.5	5.3	2.1
447	Ingraham	Aut 25	23/47	4.4	4.5	2.5
347	Raiti	Wtr 26	28/30	3.4	4.7	2.0
448	Burden	Wtr 26	21/23	4.6	5.3	2.2

4. Additional Information

1) How is enrollment for the courses incentivized, if at all?
   - Pathways Panel; new robotics lab 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: 347 and new 448; 449 being developed
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