

DRAFT SLOA Plan for the ERE BS Degree Program

Student Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)	Expected Attainment Threshold
(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	DIRECT (embedded assignments): using rubrics based on key performance indicators for <i>EE/ERE303; ERE407; ERE426; ERE469; ERE476.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	DIRECT (embedded assignments): using rubrics based on key performance indicators for <i>EE/ERE409; ME/ERE458; ERE469; ERE486; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(3) an ability to communicate effectively with a range of audiences.	DIRECT (oral presentations AND/OR written reports): using rubrics based on key performance indicators for <i>ERE101; ERE301; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)

(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	DIRECT (embedded assignments): using rubrics based on key performance indicators for <i>ME/ERE458; ERE469; ERE486; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	DIRECT (embedded team based assignments): using rubrics based on key performance indicators for <i>ERE444; ERE486; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	DIRECT (embedded assignments): using rubrics based on key performance indicators for <i>ERE301, EE/ERE303, ERE444; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	DIRECT (embedded assignments): using rubrics based on key performance indicators for	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories

	<i>ERE101; ERE444; ERE491/492.</i>		
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)
(8) an ability to understand northern issues.	DIRECT (embedded assignments): using rubrics based on key performance indicators for <i>CE401; EE/ERE409; ERE491/492.</i>	Every offering by pertinent course instructor.	70% in the Exceptional/Exemplary and Acceptable/Proficient categories
	INDIRECT: graduating senior exit survey.	Every year, coordinated by ABET coordinator.	Numeric scale of 3.5/5 (70% agreement)