

Electrical Engineering BS

College of Engineering – Electrical & Computer Engineering

Allen MacKenzie

“Provide quality undergraduate and graduate education and performance:

- PG 1. progressed in their careers as indicated by promotions, positions of leadership, awards, recognitions, entrepreneurial activities, products or processes developed, patents, and/or publications;
- PG 2. advanced their knowledge and expertise as indicated by continuing education, advanced degrees, and/or professional registration;
- PG 3. contributed to the profession and society as indicated by research, national and international collaboration, professional service, community service, and/or public service.

Students will demonstrate:

- SLO 1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- SLO 2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- SLO 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
- SLO 6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

SLO 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

A departmentally developed curriculum map can be found in Appendix 1 that shows the connections between courses and student learning outcomes.

Relationship b X /0.(d2 )TJEMC /P #MCID 6 >>BD2(A/TT0 1)-611. d2



	15-16	16-17	17-18	18-19	19-20	20-21
Capstone Assessment (Survey)	-	-	-	-	4.57	4.53
Capstone Assessment (Reviewer)	-	-	-	-	4.43	3.72
Final Exam Assessment (Through Fall 2020)	3.41	3.78	4.05	-	3.98	3.45
Student Outcome Assessment (Beginning Spring 2021)	-	-	-	-	-	3.93
Senior Exit Survey	4.32	4.37	4.37	4.31		

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This SLO, the only one that is currently assessed with the capstone assessment, will be added to the capstone assessment in 2021-

x SLO6 – Experimentation and Data Analysis

The Student Outcome Assessments of the ECE 3060 course have indicated that the analyzing and interpreting data construct has room for improvement as it has been

Course	Title	SO1	SO2	SO3	SO4	SO5	SO6	SO7
ECE 2001	Computer Aided Engineering in ECE	*					*	
ECE 2010	Electric Circuits I	*	*					
ECE2011	Electrical Engineering Lab. I			*	*		*	
ECE 2020	Electric Circuits II	*						