## Institutional Effectiveness Report 2019-20

**Program:** Engineering BS

College and Department: College of Engineering – Basic Engineering

Contact: Chris Wilson

Mission: The General & Basic Engineering (GBE) Department will provide a high quality educational experience for the students under its care through a flexible balance of academic, professional, and extracurricular programs. Additionally, the department will develop and maintain partnerships and service opportunities for its students, faculty, staff with the region and general public as a whole. Finally, engineers or discipline-specific engineers or both because of the general

neering background.

/—Demonstrate career and professional growth as an engineer.

## ning Outcome:

outcomes are as follows:

bility to identify, formulate, and solve complex engineering problems by applying principles gineering, science, and mathematics;

bility to apply engineering design to produce solutions that meet specified needs with ideration of public health, safety, and welfare, as well as global, cultural, social, commental, and economic factors;

pility to communicate effectively with a range of audiences;

collity to recognize ethical and professional responsibilities in engineering situations and the informed judgments, considering the impact of engineering solutions in global, economic, conmental, and societal contexts;

bility to function effectively on a team whose members together provide leadership, create aborative and inclusive environment, establish goals, plan tasks, and meet objectives;

cility to develop and conduct appropriate experimentation, analyze and interpret data, and engineering judgment to draw conclusions;

pility to acquire and apply new knowledge as needed, using appropriate learning strategies.

tally developed curriculum map can be found in Appendix 1 that shows the connections rses and student learning outcomes.

Alignment	of PEC	Os and SOs
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SO1	SO2	SO3	SO4	SO5	SO6	SO7

Complex SO Topic problem()

	SO5	SO6	SO7	1
n	Teamwork and Project Management	Experimentation and Data Analysis	New Knowledge	