



Engineering

Learning Outcomes (as of Fall 2024)

- 1) An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- 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.
- 3) An ability to communicate effectively with a range of audiences.
- 4) An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- 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.
- 6) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
- 7) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

| Course | LO1 | LO2 | LO3 | LO4 | LO5 | LO6 | LO7 |
|----------|-----|-----|-----|-----|-----|-----|-----|
| EGRA 123 | X | | | | | | |
| EGRA 124 | X | | | | | | |
| EGRA 130 | X | | | | | | |
| EGRA 140 | X | X | X | | | | |
| EGRA 160 | X | X | X | | X | | X |
| EGRA 200 | X | | | | | | |
| EGRA 360 | X | X | X | X | X | X | X |
| EGRA 320 | X | | | | | X | |
| EGRA 465 | X | X | X | X | X | X | X |
| EGRE 205 | X | | | | | | |
| EGRE 230 | X | | | | | | |
| EGRE 235 | X | | | | | | |
| EGRE 310 | X | | | | | | |
| EGRE 350 | X | | | | | | |
| EGRE 355 | X | | | | | | |
| EGRE 410 | X | | | | | | |
| EGRM 220 | X | | | | | | |
| EGRM 230 | X | | | | | | |
| EGRM 240 | X | X | | | | | |
| EGRM 320 | X | | | | | | |

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|-------------|---|--|--|--|---|---|--|
| EGRM 325 | X | | | | | | |
| EGRM 330 | X | | | | | | |
| EGRM 350 | X | | | | X | X | |
| EGRM 420 | X | | | | | | |
| EGRM 430 | X | | | | | | |