Engineering Program Educational Objectives (PEOs)

The Engineering Programs are designed to provide its graduates a solid educational foundation on which they can build successful and sustainable careers in engineering or a related field, using their God-given talents and skills to further His kingdom as their careers develop. In particular, recent graduates of the Engineering Program will be prepared to do the following:

1. To be employed or pursuing an advanced degree in the field of engineering or other related disciplines.

2. To be productive members of interdisciplinary teams.

3. To assume leadership positions in their industry, their continuing education, or in their communities, as their careers develop.

4. To continue their professional development and engage in the life-long learning necessary for a sustainable career.

Student Outcomes (SOs)

The student outcomes for the Engineering Programs at Bethel University are:

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, both orally and in writing, with a range of audiences

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

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 judgment to draw conclusions

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