

Department: Chemical and Natural Gas Engineering
Program: BSc Chemical Engineering

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Core Skill: Verbal, written, and presentation Communications	All jobs require being Proficient in oral, written, and presentation communication skills.	Communication skills are developed in various courses through oral and written communications, especially in design and the Unit Operations laboratories, which require many technical formal reports.
Core Skill: Team Player	In today's world no body works alone. In any project engineers have to work with others to achieve their outcomes. Most projects are multidisciplinary, which requires engineers from different disciplines have to work closely together.	In many courses assignments are given that require teamwork. This is especially true in the many laboratories that students take, and in capstone design. In these courses teams of up to four have to work together to get the project done..
Discipline-based Skill: Computer and Digital Technology	All processes in all industries, such as refineries, chemical plants, and gas plants are fully automated using computers and simulators. Chemical engineers have to be able to work with these technologies every day.	Computer based assignments are given in many courses. Advanced process technology simulators such as ASPEN and HYSYS are taught and are used in projects, especially in capstone design projects.
Discipline-based Skill: Processing and design	Processing and design is the responsibility of chemical engineers, in industries such as refineries, chemical plants, and gas processing plants.	Major courses in junior and senior years, especially the capstone design sequence courses brings nearly all learned major subject together. They have to design a major project in a team