

Chemical Engineering MS Program

Program Educational Objectives

To prepare graduates that:

1	Will successfully apply their skills to the professional practice of Chemical Engineering including project organization, innovation, management and assuming leadership positions.
11	Will use the methods, concepts and models of Chemical Engineering in the research, design, development and application of new products and processes to produce advanced solutions in a wide range of business sectors.
111	Will efficiently share information to diverse audiences and be able to develop their professional activities in multidisciplinary teams.
IV	Will practice their profession as Chemical Engineers with a deeply-held sense of ethics, responsibility, respect for the environment and proper understanding of the impact of their work on sustainable, social and global economic development.
V	Will pursuit additional educational activities for their proper professional development.

Student Outcomes

Graduates of our Chemical Engineering MS program acquire the knowledge and develop the skills shown below:

1	They can identify, formulate and solve complex Chemical Engineering problems by applying principles of engineering, science, and mathematics.
2	They can 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	They can communicate effectively with a range of audiences, both orally and in writing.
4	They recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of Chemical Engineering solutions in global, economic, environmental, and societal contexts.
5	They can function effectively on teams whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6	They can develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7	They understand the need for life-long learning, acquire and apply new knowledge as needed, using appropriate learning strategies.