CHEMICAL ENGINEERING

Enrollment and Graduation Data

Fall 2018 Enrollment – 258

2017-18 Graduates – 57 BS degrees conferred

Program Educational Objectives

Graduates of the Bachelor of Science degree program in chemical engineering at RIT are expected, within a few years of graduation, to have:

- demonstrated an ability to draw upon the fundamental knowledge, skills, and tools of chemical engineering to develop scale-appropriate system-based engineering solutions that satisfy constraints imposed by a global society.
- demonstrated an ability to enhance their skills through formal education and training, independent inquiry, and professional development.
- demonstrated an ability to work independently as well as collaboratively with others, and to have demonstrated leadership, accountability, initiative, and ethical and social responsibility.
- demonstrated the ability to successfully pursue graduate degrees at the Master's and/or PhD level for those graduates who have the interest and the relevant qualifications.

Student Outcomes

The student outcomes of the bachelor of science in chemical engineering are such that the graduates of the program will have the following skills and attributes:

- *Engineering Foundations* An ability to apply knowledge of mathematics, science, and engineering
- *Experimentation* An ability to design and conduct experiments, as well as to analyze and interpret data
- *Design* An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- *Multidisciplinary Teamwork* An ability to function on multidisciplinary teams
- *Problem Solving* An ability to identify, formulate, and solve engineering problems
- *Professional Responsibility* An understanding of professional and ethical responsibility
- *Communication* An ability to communicate effectively
- *Broad Education* The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- *Life-Long Learning* A recognition of the need for, and an ability to engage in life-long learning
- *Contemporary Issues* A knowledge of contemporary issues
- *Modern Tools* An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice