

MASTER OF ENGINEERING, PLAN C, CHEMICAL ENGINEERING SPECIALIZATION

Master of Engineering, Plan C, Chemical Engineering Specialization is a coursework-based program in which students will learn from world-renowned experts how to identify, formulate and solve complex chemical engineering problems using principles of engineering, science, and mathematics. Our program equips students with a diverse skill set essential for the next generation of chemical engineering leaders in academia and industry. Students in the program have access to a wide range of graduate-level courses on the state of the art in chemical engineering technologies, including advanced polymeric materials, bioanalytical devices, biomedical science and engineering, systems biology, synthetic biology, and biomanufacturing.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Learning Objectives

Upon successful completion of this program, students will be able to:

1. Demonstrate technical mastery of the core chemical engineering disciplines of thermodynamics, transport phenomena, and chemical reaction engineering.
2. Competently and professionally communicate their work in both written and oral forms.
3. Identify, formulate, and solve complex chemical engineering problems by applying principles of engineering, science, and mathematics.
4. Assimilate information from other related fields of science and engineering to inform their chemical engineering practice and to expand the areas of application of their chemical engineering expertise.