POLYMER SCIENCE &
POLYMER ENGINEERING
(9801)

9801:605 Polymer Physical Chemistry (4 Credits)
Fundamentals of polymer chain characteristics, common polymerization
types, and overview of polymer physical chemical behavior.

9801:615 Polymer Characterization (4 Credits)
Prerequisite: 9801:605. Introduction to widely used polymer
characterization techniques (3cr) with accompanying experiments (1cr).

9801:635 Rheology, Processing and Evaluation of Polymeric Materials (4
Credits)
Prerequisite: 9801:605. Introduction to several types of polymer
processing and several tests of properties (3cr) with accompanying lab
environments (1cr).

9801:645 Research, Problem Solving and Communication of Technical
Information (3 Credits)
Prerequisite: 9801:605. Introduction to the research and development
enterprise, problem solving, and the communication of technical
information to various audiences.

9801:665 Emerging Markets & Technologies (3 Credits)
Prerequisites: 9801:605, 9801:615, and 9801:635. Overview of emerging
markets and technologies involving polymers as well as analyses of
these technologies with respect to life cycle, carbon footprint, and
sustainability.