

# POLYMER SCIENCE, PHD

## Doctor of Philosophy in Polymer Science

An interdisciplinary program leading to the Doctor of Philosophy in Polymer Science is administered by the School of Polymer Science and Polymer Engineering. Graduates from the four main disciplines (chemistry, physics, biomaterials, and engineering) are guided into the appropriate courses of study and research in that field under the supervision of a faculty member. Students may be admitted directly to the Ph.D. program upon screening of their qualifications and recommendation by the Admission Committee.

In addition to satisfying the general requirements of the Graduate School, a student working toward the Doctor of Philosophy in Polymer Science must meet the following requirements:

- Complete a course of study prescribed by the student's advisory committee based on the committee's judgment of the student's background and on the result of any special examinations it might impose. This course will consist of a minimum of, but usually more than, 38 credits in graduate courses, or their equivalent, plus sufficient Ph.D. research credits to make a total of 84 credits (exclusive of Master of Science thesis credit).
- Attendance and participation in seminar-type discussions scheduled by the department.
- At least 18 credits of graduate course work and all dissertation credits must be completed at the University.

There is a university minimum residence time requiring one year, although graduate students starting with a B.S. or B.A. typically spend four years in residence.

Code	Title	Hours
<b>Core Courses</b>		
9871:601	Polymer Chemistry	4
9871:607	Seminar in Polymer Science I	1
9871:613	Polymer Science Laboratory	3
9871:631	Polymer Physics I	4
9871:632	Polymer Physics II	4
9871:674	Polymer Characterization	2
9871:685	Introduction to Biomacromolecules	2
<b>Electives</b>		
Select eighteen credits appropriate to the student's area of interest.		18
<b>Doctoral Dissertation</b>		
Select forty six credits		46
Total Hours		84

## Cumulative Examinations

Pass six cumulative examinations which are given once a month for eight months of the year (none in June, July, August, or December). Candidates must begin taking cumulative exams after completion of their second semester. Thereafter, students are required to take all of the exams until they pass six. (A maximum of 24 total cumulative examinations may be taken)

## Formal Seminar and Research Presentation

Present a public discussion referred to as a departmental "formal seminar," which reviews the literature pertinent to the research problem and then a "research presentation," which presents the student data.

## Seminars

Attendance at and participation in seminar-type discussions scheduled by the department is required.

## Foreign Language Requirement

Satisfy the foreign language requirement for the doctoral degree by meeting the requirements of Plan C. This is satisfied with computer proficiency, which is met by completing 9871:613 Polymer Science Laboratory as part of the core curriculum.

## Dissertation and Oral Defense

Pass an oral defense upon completion of a written research dissertation.