

CHEMISTRY, PHD

Each student's background and interests determine the course of study. The normal program leads to the Ph.D. degree. A student is not usually accepted for a terminal M.A. degree.

Admission Requirements

Fellowships, research appointments, and teaching assistantships are available for graduate students. There are no fixed admissions requirements. Undergraduate majors in chemistry, biology, earth sciences, mathematics, or physics may apply, as well as well-qualified individuals who will have received a B.A. degree.

For further information about graduate study in chemistry visit the Chemistry Department website at <https://chemistry.jhu.edu/>.

Program Requirements

Normally, the minimum course requirement for both the M.A. and the Ph.D. degrees is six one-semester graduate courses in chemistry and related sciences. Exceptionally well-prepared students may ask for a reduction of these requirements.

Requirements for the Ph.D. degree include a research dissertation worthy of publication, and a knowledge of chemistry and related material as demonstrated in an oral examination. Each student must teach for at least one year.

Below is a list of the core Chemistry courses for graduate level students.

Code	Title	Credits
AS.030.442	Organometallic Chemistry	3
AS.030.449	Chemistry of Inorganic Compounds	3
AS.030.451	Spectroscopy	3
AS.030.452	Materials & Surface	3
AS.030.453	Intermediate Quantum Chemistry	3
AS.030.601	Statistical Mechanics	
AS.030.610	Chemical Kinetics	
AS.030.619	Chemical Biology I	
AS.030.625	Advanced Mechanistic Organic Chemistry I	
AS.030.626	Advanced Mechanistic Organic Chemistry II	
AS.030.677	Advanced Organic Synthesis I	