Degree Requirements for the BS in Chemical Physics

The Chemical Physics major leading to a BS degree is offered in conjunction with the Department of Physics and Astronomy. Students take upper-level courses in both chemistry and physics, focusing on the applications of physics to chemical systems. Students majoring in Chemical Physics must complete the following courses:

**General Chemistry:**
☐ CHEM 151 Honors Chemistry I or CHEM 121 General Chemistry I  
☐ CHEM 152 Honors Chemistry II or CHEM 122 General Chemistry II

**Chemistry:**
☐ CHEM 211 Organic Chemistry I  
☐ CHEM 310 Physical Chemistry  
☐ CHEM 360 Inorganic Chemistry  
☐ CHEM 420 Classical and Statistical Thermodynamics or PHYS 425 Statistical and Thermal Physics

**Physics:**
☐ PHYS 101 or 111 Mechanics (with lab)  
☐ PHYS 102 or 112 Electricity and Magnetism (with lab)  
☐ PHYS 201 Waves and Optics  
☐ PHYS 202 Modern Physics  
☐ PHYS 231 Elementary Physics Laboratory II  
☐ PHYS 301 Intermediate Mechanics  
☐ PHYS 302 Intermediate Electrodynamics  
☐ PHYS 311 Introduction to Quantum Physics I  
☐ PHYS 312 Introduction to Quantum Physics II or CHEM 430 Quantum Chemistry

**Mathematics*:**
☐ MATH 101 Single Variable Calculus I  
☐ MATH 102 Single Variable Calculus II  
☐ MATH 211 Ordinary Differential Equations and Linear Algebra or MATH 221 Honors Calculus III  
☐ MATH 212 Multivariable Calculus or MATH 222 Honors Calculus IV

**Introductory Laboratory Modules:**
☐ CHEM 231 or CHEM 351 Introductory Module in Inorganic Chemistry  
☐ CHEM 232 or CHEM 352 Introductory Module in Organic Chemistry  
☐ CHEM 353 Introductory Module in Analytical Methods

**Six additional credit hours from*:**
☐ CHEM 215 Organic Chemistry Laboratory  
☐ CHEM 231 Introductory Module in Inorganic Chemistry  
☐ CHEM 232 Introductory Module in Organic Chemistry  
☐ CHEM 353 Introductory Module in Analytical Methods  
☐ PHYS 331 Junior Physics Laboratory I  
☐ PHYS 332 Junior Physics Laboratory II  
☐ Up to two hours of CHEM 491 Research for Undergraduates or PHYS 491/ PHYS 492 Undergraduate Research may be counted toward this requirement

*Select which courses you have chosen to track your progress.

**Six credit hours of Math or CAAM courses at or above the 300 level:**
☐ Course number and name____________  
☐ Course number and name____________  
☐ Course number and name____________

To further check your progress in completing your degree see registrar.rice.edu to request an Esther’s Curriculum, Advising, Program Planning (ECAPP) degree audit.