Physics is the study of matter, energy, motion, and force. Many students study physics because they enjoy it, and they find that physics is exciting and intellectual stimulating. Physics majors develop the problem-solving and analytic skills that many employers value, allowing many of our graduates to enter the workforce directly, while some of our graduates continue their studies with graduate work in physics or related areas.

### Freshman Year

**FALL SEMESTER**
- CHE 105 - GENERAL COLLEGE CHEMISTRY I - **4**
- PHY 231 - GENERAL UNIVERSITY PHYSICS - **4**
- PHY 241 - GENERAL UNIVERSITY PHYSICS LABORATORY - **1**
- Composition and Communication I - **3**
- Pre-Major Math Selection - **5**

**SPRING SEMESTER**
- CHE 107 - GENERAL COLLEGE CHEMISTRY II - **3**
- PHY 228 - OPTICS, RELATIVITY AND THERMAL PHYSICS - **3**
- UK Core - Comp. & Comm. II - **3**
- Pre-Major Math Selection - **5**
- Courses Outside Physics (200+ level) - **3**

**Total Freshman Hours: 34**

### Sophomore Year

**FALL SEMESTER**
- PHY 232 - GENERAL UNIVERSITY PHYSICS - **4**
- PHY 242 - GENERAL UNIVERSITY PHYSICS LABORATORY - **1**
- PHY 335 - DATA ANALYSIS FOR PHYSICISTS - **2**
- MA 213 - CALCULUS III - **4**
- Foreign Language 101 - **4**

**SPRING SEMESTER**
- MA 214 - CALCULUS IV - **3**
- PHY 306 - THEORETICAL METHODS OF PHYSICS - **3**
- PHY 361 - PRINCIPLES OF MODERN PHYSICS - **3**
- Foreign Language 102 - **4**
- Statistical Inferential Reasoning - **3**

**Total Sophomore Hours: 31**

### Junior Year

**FALL SEMESTER**
- PHY 404G - MECHANICS - **3**
- PHY 416G - ELECTRICITY AND MAGNETISM - **3**
- Foreign Language 201 - **3**
- Courses Outside Physics (200+ level) - **3**
- Intellectual Inquiry in Arts and Creativity - **3**

**SPRING SEMESTER**
- PHY 417G - ELECTRICITY AND MAGNETISM - **3**
- Foreign Language 202 - **3**
- Additional Major Course - **3**
- Intellectual Inquiry in the Humanities - **3**
- Intellectual Inquiry in the Social Sciences - **3**

**Total Junior Hours: 30**

### Senior Year
FALL SEMESTER
PHY 520 - INTRODUCTION TO QUANTUM MECHANICS - 3
Additional Major Course - 3
A&S Social Sciences (100+ level) - 3
Global Dynamics - 3
A&S Approved Elective (100+ level) - 3

TOTAL HOURS: 15
Total Senior Hours: 30

SPRING SEMESTER
PHY 521 - INTRO TO QUANTUM MECHANICS II - 3
PHY 535 - EXPERIMENTAL PHYSICS: ADVANCED PHYSICS LABORATORY - 3
A&S Humanities (200+ level) - 3
Community, Culture and Citizenship in the USA - 3
A&S Approved Elective (100+ level) - 3

TOTAL HOURS: 15

Total Minimum hours Required for Degree: 120 hours

University of Kentucky is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or online at www.sacscoc.org for questions about the accreditation of University of Kentucky.

Current UK students: Please login to http://myUK.uky.edu to access your personalized major template and degree audit via the Graduation Planning System (GPS). This major template is the curriculum requirements for completion of the degree program only and is not a personalized audit based on your completed coursework. This major template does not reflect entrance requirements for selective majors. Please consult with the college to learn more about admission to this major.