

# BACHELOR OF ARTS

## Physics

[www.emporia.edu/physics](http://www.emporia.edu/physics)

This program is designed to allow students some specialization in physics while gaining breadth in other disciplines.

### General Information

See the current undergraduate catalog for the General Education requirements for the BA degree. (Do note that the BA program requires ten hours of foreign language.) See note below with “Additional Electives” for additional degree requirements.

### Required Courses in Major Area: 25 hours

#### 1. Required Designated Courses: 14+ hours

	Hours
PH190-191-192 Physics I & Lab & Recitation .....	5
PH393-394-395 Physics II & Lab & Recitation† .....	5
PH490 Independent Study.....	1-3
PH540 Modern Physics.....	3

*NOTE: College Physics I (PH 140/141) and College Physics II (PH 343/344) may be substituted for Physics I (PH 190/191/192) and Physics II (PH 393/394/395), respectively.*

#### 2. Elective Courses: 11 hours

A student must complete an additional 11 hours of approved electives in physics. PH 100 may be used as an elective. All physics courses at the 300-level or above may be used to fulfill this requirement. An upper-level laboratory course is highly recommended. The degree program may include a maximum of 6 hours of credit for any combination of PH 315, PH 316, PH 760, and PH 761, and a maximum of 3 credits in PH 490.

#### Required Associated Courses: 23 hours

CH123-124 Chemistry I & Lab.....	5
MA161 Calculus I .....	5
MA262 Calculus II	5

#### Required Second Program of Study

The student is required to complete a second program of study of 15-30 hours in another discipline of choice, or an ESU approved minor.

#### Additional Electives

ESU degrees require at least 124 semester hours of credit in courses numbered 100 and above. Among those 124 hours, at least 45 hours of course work must be numbered 300 or above.

† Fulfills technology competency course requirement