

Applied Physics Honors Major Courses (64 - 71 credits)

Required Major Courses (40 - 47 credits)

- (4) PHYS 17200 ( also satisfies Science Selective for core and CoS teambuilding experience requirement)
(4) PHYS 27200 ( also satisfies Science Selective for core)
(3-6) PHYS 30600 (fall) or (MA 36200 and MA 42500)
(3-7) PHYS 30700 (spring) or (MA 35100 (26500) and MA 36600 (26600))
(1) PHYS 34000
(4) PHYS 34400 (fall)
(3) PHYS 41000 (fall)
(4) PHYS 41600 (fall)
(3) PHYS 42200 (spring)
(3) PHYS 43000 (spring)
(2) PHYS 45000
(3) PHYS 46000 (fall)
(3) PHYS 59300

Major Selective\* - (24 credits - in chosen applied area(s) approved by the Physics Department)

( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_
( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

Other Departmental /Program Course Requirements (41-68 credits)

- (4-5) MA 16100 or MA 16500 (satisfies Quantitative Reasoning Selective for core)
(4-5) MA 16200 or MA 16600 (satisfies Quantitative Reasoning Selective for core)
(4) MA 26100 (satisfies Quantitative Reasoning Selective for core)
(4) CHM 11500 (satisfies Science Selective for core)
(4) CHM 11600 (satisfies Science Selective for core)
(3-4) C S 15800 or CS 17700 or CS 18000 LINK (satisfies CoS Computing and Teambuilding Experience Requirement)
STAT 30100 LINK (satisfies Information Literacy Selective for core) or STAT 35000 or STAT 50300 or STAT 51100 (satisfies CoS statistics requirement) (satisfies one of the Science/Engineering requirements for Physics Selective)
ENGL 10600 or ENGL 10800 LINK (satisfies Written Communication & Information Literacy for core and CoS composition requirement)
(3-6) COM 21700 LINK (satisfies Oral Communication for core and CoS technical writing and presenting requirement)
(0-4) Language I Selective -LINK
(0-4) Language II Selective - LINK
(0-4) Language and Culture III Selective -LINK (Select courses COULD satisfy Human Cultures Humanities for core)
(3) General Education Elective I LINK (Select courses could satisfy Human Cultures Humanities for core)
(3) General Education Elective II LINK (Select courses could satisfy Human Cultures Humanities for core)
(3) General Education Elective III LINK (Select courses could satisfy Humanities Behavioral/Social Science for core)
(3) Great Issues LINK (satisfies one of the Science/Engineering requirements for Physics Selective)
(0-3) Multidisciplinary Elective LINK (Select courses could satisfy Science, Technology & Society Selective for core)

Electives (≤ 18 credits)

( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

University Core Requirements LINK

Table with 4 columns: Human Cultures Humanities, Human Cultures Behavioral/Social Science, Information Literacy, Science Selective, Science Selective, Science, Technology & Society Selective, Written Communication, Oral Communication, Quantitative Reasoning. Each cell contains a checkbox and a line for completion.

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

\*\*\*\*\*

## Applied Physics Honors

### Suggested Arrangement of Courses:

| Credits   | Fall 1st Year         | Prerequisite | Credits      | Spring 1st Year      | Prerequisite              |
|-----------|-----------------------|--------------|--------------|----------------------|---------------------------|
| 4         | PHYS 17200* (HONORS ) | MA 161 coreq | 4            | PHYS 27200* (HONORS) | PHYS 17200 + MA 162 coreq |
| 5         | MA 16100*             | ALEKS 85%    | 4            | CHM 11600*           | CHM 11500                 |
| 4         | CHM 11500*            | MA 161 coreq | 5            | MA 16200*            |                           |
| 4         | ENGL 10600*           |              | 3-4          | LANGUAGE 101         |                           |
| <b>17</b> |                       |              | <b>16-17</b> |                      |                           |

| Credits      | Fall 2nd Year | Prerequisite            | Credits      | Spring 2nd Year      | Prerequisite                     |
|--------------|---------------|-------------------------|--------------|----------------------|----------------------------------|
| 3            | PHYS 30600    | PHYS 272 + coreq MA 261 | 3            | PHYS 30700           | PHYS 272 + coreq MA 261          |
| 1            | PHYS 34000    | coreq Phys 344          | 3            | PHYS 42200           | PHYS 272                         |
| 4            | PHYS 34400    | PHYS 272 + coreq MA 261 | 3 - 4        | LANGUAGE 201/culture | Language 102/ usually no pre-req |
| 4            | MA 26100*     | MA 162                  | 3            | STAT 30100*          |                                  |
| 3 -4         | LANGUAGE 102  | Language 101            | 3            | Elective             | Prerequisites may vary           |
| <b>15-16</b> |               |                         | <b>15-16</b> |                      |                                  |

| Credits        | Fall 3rd Year          | Prerequisite             | Credits   | Spring 3rd Year          | Prerequisite  |
|----------------|------------------------|--------------------------|-----------|--------------------------|---|
| 3              | PHYS 41000             | PHYS 272 + MA 261        | 3         | PHYS 43000               | (PHYS 272 and MA 261 and (PHYS 306 or MA 362)) C- or better |
| 3              | PHYS 46000             | PHYS 344 + coreq PHYS410 | 3         | Applied Physics Elective | Prerequisites may vary                                      |
| 2              | PHYS 45000             | PHYS 42200               | 3         | Applied Physics Elective | Prerequisites may vary                                      |
| 3              | COM 21700*             |                          | 3         | Applied Physics Elective | Prerequisites may vary                                      |
| 3 -4           | CS 15800 (or CS 17700) | MA 161 coreq             | 3         | General Ed (Humanities)* |   |
| 1              | Elective               | Prerequisites may vary   |           |                          |   |
| <b>15 - 16</b> |                        |                          | <b>15</b> |                          |   |

| Credits   | Fall 4th Year            | Prerequisite                                  | Credits   | Spring 4th Year                      | Prerequisite           |
|-----------|--------------------------|---|-----------|--------------------------------------|------------------------|
| 4         | PHYS 41600               | Coreq (PHYS 410 and 430 and 460) C- or better | 3         | Applied Physics Elective             | Prerequisites may vary |
| 3         | PHYS 59300               |   | 3         | Applied Physics Elective             | Prerequisites may vary |
| 3         | Applied Physics Elective | Prerequisites may vary                        | 3         | Applied Physics Elective             | Prerequisites may vary |
| 3         | Applied Physics Elective | Prerequisites may vary                        | 3         | General Ed (Behav./Social Science )* |                        |
| 3         | General Ed (Humanities)* |   | 3         | Multidisciplinary (STS)*             |                        |
| <b>16</b> |                          |   | <b>15</b> |                                      |                        |

\*Satisfies a University Core Requirement

**120 semester credits required for Bachelor of Science degree.**

**3.0 Graduation GPA required for Bachelor of Science degree.**

**3.0 average in PHYS/ASTR classes required to graduate.**

**No more than one C grade (i.e., C+, C, or C-) is allowed in all physics courses taken**

No grade of D+ or worse is allowed in any course.

\*\*\*\*\*

**The student is ultimately responsible for knowing and completing all degree requirements.**

**Degree Works is knowledge source for specific requirements and completion**

\*\*\*\*\*