

PHYSICS MAJOR (GENERAL)

**CHECK LIST**

NAME \_\_\_\_\_ ID# \_\_\_\_\_ DATE \_\_\_\_\_  
GENERAL EDUCATION REQUIREMENTS

MAJOR REQUIREMENTS  
 66-67 SEMESTER HOURS

GENERAL EDUCATION REQUIREMENTS

**GROUP I: English and Literature – 2 COURSES**

- A. ENGLISH 103 (C or Better) 4 \_\_\_\_\_  
 HONORS 111 (if in Honors Program)
- B. LITERATURE (in either English or Modern Languages) 4 \_\_\_\_\_

CHEMISTRY - 8 HOURS

- 121 GENERAL CHEMISTRY I 4 \_\_\_\_\_
- 122 GENERAL CHEMISTRY II 4 \_\_\_\_\_

**GROUP II: History - 2 COURSES**

- A. HISTORY 101,102 or 103 4 \_\_\_\_\_
- B. HISTORY 101,102, 103 or a History Course above 103 4 \_\_\_\_\_

MATHEMATICS - 16 HOURS

- 201 CALCULUS I 4 \_\_\_\_\_
- 202 CALCULUS II 4 \_\_\_\_\_
- 310 CALCULUS III 4 \_\_\_\_\_
- 311 DIFFERENTIAL EQUATIONS 4 \_\_\_\_\_

**GROUP III: Humanities and Social Sciences – 3 COURSES FROM 3 DIFFERENT AREAS**

- A. **Select one course from one of the following six areas:**  
 Art, Communication, Dance OR Theater Arts, Modern Languages, Music, Philosophy. (HONR 211 if in Honors Program) 3/4 \_\_\_\_\_
- B. **Select one course from one of the following six areas:**  
 Anthropology, Conflict Analysis and Dispute Resolution OR Sociology, Economics, **Human** Geography, Political Science, Psychology. (HONR 112 if in Honors Program) 3/4 \_\_\_\_\_
- C. **Select one course from either Group III A or III B (course may not be from the same area selected for III A or III B)** 3/4 \_\_\_\_\_

PHYSICS CORE - 27 HOURS

- 221 PHYSICS I 4 \_\_\_\_\_
- 223 PHYSICS II 4 \_\_\_\_\_
- 309 MATH PHYSICS 3 \_\_\_\_\_
- 311 CIRCUITS & ELECTRONICS 4 \_\_\_\_\_
- 313 MODERN PHYSICS 3 \_\_\_\_\_
- 314 MECHANICS 3 \_\_\_\_\_
- 315 ELECT. & MAGNETISM 3 3 \_\_\_\_\_
- 316 QUANTUM MECHANICS 3 \_\_\_\_\_

GENERAL TRACK - 15-16 HOURS

- 407 ADVANCED LABORATORY 3 \_\_\_\_\_
- 470 SENIOR SEMINAR 1 \_\_\_\_\_
- 490 RESEARCH 2 \_\_\_\_\_

**GROUP IV: Natural Science, Math and Computer Science – 4 COURSES**

SATISFIED BY MAJOR

**GROUP V: Health Fitness – 1 COURSE**

Complete PHEC 106 3 \_\_\_\_\_

ELECTIVES - 22-26 HOURS

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AND A MINIMUM OF 3 ADDITIONAL 300 AND 400 LEVEL PHYSICS COURSES

- 317 ASTROPHYSICS 3 \_\_\_\_\_
- 318 SEMICONDUCTOR PHYSICS 3 \_\_\_\_\_
- 319 THERMO. AND STAT. 3 \_\_\_\_\_
- 320 WAVEOPTICS 3 \_\_\_\_\_
- 321 ANALOG ELECTRONICS 3 \_\_\_\_\_
- 322 DIGITAL ELECTRONICS 4 \_\_\_\_\_
- 410 ADV. MATH PHYSICS 3 \_\_\_\_\_
- 413 COMPUTER ARCHITECTURE AND INTERFACING 3 \_\_\_\_\_
- 414 ADV. MECHANICS 3 \_\_\_\_\_
- 482 MICROWAVE ENGR 3 \_\_\_\_\_

**PHYSICS GENERAL TRACK**  
**(Suggested Curriculum Guide)**

Freshman Year

|   |   |
|---|---|
| Fall (16)<br>PHYS 221 (4)<br>MATH 201 (4)<br><br>(4)<br>ENGL 103 (4)<br>HIST 101 or 102 (4)<br>GENL 001 (0) | Spring (15)<br>PHYS 223 (4)<br>MATH 202<br><br>CHEM 121 (4)<br>PHEC 106 (3) |
|---|---|

Sophomore Year

|   |   |
|---|---|
| Fall (15)<br>PHYS 309 (3)<br>CHEM 122 (4)<br>MATH 310 (4)<br>HIST XXX (4) | Spring (15)<br>PHYS 311 (4)<br>PHYS 313 (3)<br>MATH 311 (4)<br>LITERATURE (4) |
|---|---|

Junior Year

|   |   |
|---|---|
| Fall (16)<br>PHYS 314 (3)<br>PHYS 315 (3)<br>*PHYS 407 (3)<br><i>or</i> *PHYS 318 (3)<br><br>HUMANITIES (3-4)<br>Elective (4-3) | Spring (15)<br>PHYS 316 (3)<br>*PHYS 317 (3)**<br><i>or</i> *PHYS 321 (3)<br>SOCIAL SCIENCE<br>(3-4)<br>Electives (6-5) |
|---|---|

Senior Year

|  |  |
|--|--|
| Fall (15)<br>*PHYS 318 (3)**<br><i>or</i> *PHYS 407 (3)<br>PHYS 470 (1)<br>GEN ED III C (3-4)<br>Electives (8-7) | Spring (13)<br>*PHYS 321 (3)**<br><i>or</i> *PHYS 317 (3)<br>PHYS 490 (2)<br>Electives (8) |
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\* Offered every other year

\*\*Recommended physics classes to meet the required additional 3 upper level courses

**NOTE: SEE ADVISOR FOR DETAILED ADVICE.**

MUST COMPLETE 30 HOURS AT THE 300/400 LEVEL WITH A GRADE OF "C" OR BETTER.  
 NEED 120 TOTAL CREDITS FOR GRADUATION.

**ALL REQUIRED PHYSICS COURSES MUST BE COMPLETED WITH A MINIMUM OVERALL  
 GPA OF 2.0.**