### ELECTRICAL ENGINEERING & PHYSICS DOUBLE MAJOR

**Curriculum Guide effective Fall 2017 ~ North Dakota State University**

**STUDENT ________________________________**  
**ID # __________________________**  
**ADVISOR___________________________**

#### FALL

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<tr>
<th>Course</th>
<th>Crs</th>
<th>Grade</th>
<th>Gen Ed</th>
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<td>PHYS 171</td>
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<td>Intro Physics Projects</td>
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<td>Calculus I</td>
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**General Education Electives**

- Approved courses listed in the registration schedule centerfold.

#### SPRING

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**General Education Electives**

- Approved courses listed in the registration schedule centerfold.

#### General Education Categories:

- A - Humanities/Fine Arts
- B - Social/Behavioral Sciences
- C - Communication
- D - Cultural Diversity
- E - First-Year Experience
- F - Global Perspectives
- G - Co-requisite Lab
- H - Quantitative Reasoning
- I - Science & Technology
- J - Wellness

**Students must have at least a 2.0 GPA in all required EE, ECE, and PHYS courses taken at NDSU, in order to graduate. Elective ECE or PHYS courses are not included in this GPA requirement.**

1. Students must take ECE 111 prior to enrolling in ECE courses listed above in the Junior or Senior year; otherwise, students must take an additional ECE Elective in lieu of ECE 111.

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**ECE Elective:** any didactic ECE 4xx course (not 493, 494, 496)

**ECE/PHYS Elective:** cross-listed ECE/PHYS 4xx course

2. See http://bulletin.ndsu.edu/course-catalog.descriptions/ee/ for the full list of ECE and ECE/PHYS courses
Electrical Engineering & Physics Double Major Curriculum Flowchart

Freshman Year
- ENGL 100
- ENGL 110
- COMM 110
- PHYS 171
- ECE 173
- PHYS 251, 251L, 251R
- MATH 165
- ENGL 120
- ECE 111
- MATH 129
- MATH 166
- ECE 275
- EE 206
- MATH 265
- PHYS 252, 252L, 252R
- PHYS 350
- PHYS 370

Sophomore Year
- Gen Ed Elective
- Upper Level Writing
- ECE Digital Design
- ECE 311
- MATH 266
- PHYS 350
- PHYS 370
- ECE 320
- ECE 321
- PHYS 360
- PHYS 462
- PHYS 355

Junior Year
- ECE Embedded Systems
- ECE Senior Design I
- ECE Energy Conversion
- ECE 351
- ECE 343
- PHYS Elective
- ECE Elective
- ECE Elective

Senior Year
- ECE Elective
- ECE Elective
- Gen Ed Elective
- Gen Ed Elective
- ECE Elective

Prerequisite
Corequisite