

**PETREE COLLEGE OF ARTS & SCIENCES**  
**Three (3) Year Plan - Dual Degree**  
**PRE-ENGINEERING - MECHANICAL TRACK**

| First Year – Fall Semester   | ✓  | First Year – Spring Semester   | ✓  |
|--|--|--|--|
| General Chemistry I (CHEM 1104)<br>General Chemistry I Lab (CHEM 1141)<br>Calculus I (MATH 2004)   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>                             | General Chemistry II (CHEM 1104)<br>General Chemistry II Lab (CHEM 1141)<br>Calculus II (MATH 2104)  | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>                             |
| English Composition I<br>Liberal Arts Seminar  | <input type="checkbox"/><br><input type="checkbox"/>   | English Composition II<br>General education course(s)  | <input type="checkbox"/><br><input type="checkbox"/>   |
| <u>Total: 15-16 CHs</u>  |  | <u>Total: 15-16 CHs</u>  |  |
| Second Year – Fall Semester  | ✓  | Second Year – Spring Semester  | ✓  |
| Approved elective: PHYS, MATH, BIOL, CSCI<br>Multivariate Calc (MATH 2203)   | <input type="checkbox"/><br><input type="checkbox"/>   | Ordinary Differential Equations (MATH 3303)<br>Approved elective: PHYS, MATH, BIOL, CSCI   | <input type="checkbox"/><br><input type="checkbox"/>   |
| General education course(s)  | <input type="checkbox"/><br><input type="checkbox"/>   | General education course(s)  | <input type="checkbox"/><br><input type="checkbox"/>   |
| <u>Total: 15-16 CHs</u>  |  | <u>Total: 15-16 CHs</u>  |  |
| Third Year – Fall Semester   | ✓  | Third Year – Spring Semester   | ✓  |
| University Physics I (PHYS 2104)<br>University Physics I Lab (PHYS 2141)<br>Programming I (CSCI 1514)<br>Engineering Mathematics I (MATH 3804) | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | University Physics II (PHYS 2204)<br>University Physics II Lab (PHYS 2241)<br>Engineering Mathematics II (MATH 4803)<br>Physical Chemistry I (CHEM 3503) <i>or</i><br>Thermodynamics (PHYS 3203) | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| General education course(s)  | <input type="checkbox"/><br><input type="checkbox"/>   | General education course(s)  | <input type="checkbox"/>   |
| <u>Total: 15-16 CHs</u>  |  | <u>Total: 15-16 CHs</u>  |  |
| Fourth Year – Fall Semester  | ✓  | Fourth Year – Spring Semester  | ✓  |
| <b>WASH U<br/>Dual-Degree</b>  |  | <b>WASH U<br/>Dual-Degree</b>  |  |
| <u>Total: 15-16 CHs</u>  |  | <u>Total: 15-16 CHs</u>  |  |

| & MINOR in: |     |
|-------------|-----|
| Courses     | CHs |
|             |     |

\_\_\_\_\_  
 Advisor Signature      MM DD YYYY

\_\_\_\_\_  
 Student Signature      MM DD YYYY

**GENERAL EDUCATION**

| ✓                        | Requirements:  | BS | BA |  |  |  |  |  |  |   |    |
|--------------------------|--|----|----|--|--|--|--|--|--|---|----|
| <input type="checkbox"/> | English Composition I (ENGL 1113)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | English Composition II (ENGL 1213)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Liberal Arts and Sciences Seminar (LAS 1063)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | The Bible and Culture (REL 1003) <i>OR</i><br>Introduction to World Religions (REL 1513)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Literature: World (ENGL 2603)<br><i>OR</i> Western (ENGL 2103)<br><i>OR</i> British (ENGL 2403, 2413, 2703)<br><i>OR</i> American (ENGL 2713, 2813)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Fine Arts (Any ART, FILM, MUS, THRE, DANC or INDP 1013)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Philosophy/Ethics: PHIL/REL 2213, 2163 <i>OR</i> MGMT 2223 <i>OR</i><br>PHIL/PHRH 2513 <i>OR</i> PHIL/REL 2703   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | American/U.S. History (HIST 1003 or HIST 1103)<br>(International Students must take HIST 1113)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | American Governance (POLS 1113)<br>(International students must take POLS 1013)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Introduction to Sociology (SOC 2013) <i>OR</i><br>Introduction to Psychology (PSYC 1113)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Mathematics (MATH 1503, ECON 2123, PSYC 2303 or a higher<br>-level mathematics class)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Methods of Scientific Inquiry (SCI 1003)   | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Integrated Science Laboratory (SCI 1041) [ Not required for those<br>who have passed a 2000 level or above lab science ]   | 1  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | <table border="1"> <tr> <th>BS</th> <th>BA</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> Foreign Language (BS/BFA requires 6 hours; BA requires 12 hours) | BS | BA |  |  |  |  |  |  | 6 | 12 |
| BS                       | BA   |    |    |  |  |  |  |  |  |   |    |
|                          |  |    |    |  |  |  |  |  |  |   |    |
|                          |  |    |    |  |  |  |  |  |  |   |    |
|                          |  |    |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Cross-Cultural Studies   |    |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Service Learning   |    |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Capstone   |    |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Public Speaking (PHRH 1103)  | 3  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | Laboratory Science (BIOL, CHEM, or PHYS)   | 4  |    |  |  |  |  |  |  |   |    |
| <input type="checkbox"/> | International or Diversity (approved courses or study abroad)  | 3  |    |  |  |  |  |  |  |   |    |

\* Specific course offerings may vary dependent upon enrollment and faculty availability; courses may not fall in the exact semester listed above.