

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

First Year – Fall Semester	✓	First Year – Spring Semester	✓
General Chemistry I (CHEM 1104) General Chemistry I Lab (CHEM 1141) Fundamentals of Biology (BIOL 1214) Calculus I (MATH 2004) English Composition I Liberal Arts Seminar	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	General Chemistry II (CHEM 1104) General Chemistry II Lab (CHEM 1141) Calculus II (MATH 2104)  English Composition II General education course(s)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	
Second Year – Fall Semester	✓	Second Year – Spring Semester	✓
Genetics (BIOL 3003) Organic Chemistry I (CHEM 3203) Organic Chemistry I Lab (CHEM 3241) Multivariate Calc (MATH 2203)  General education course(s)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	Organic Chemistry II (CHEM 3303) Organic Chemistry II Lab (CHEM 3341) Ordinary Differential Equations (MATH 3303)  General education course(s)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	
Third Year – Fall Semester	✓	Third Year – Spring Semester	✓
Biochemistry I (BIOL 3714) University Physics I (PHYS 2104) University Physics I Lab (PHYS 2141) Programming I (CSCI 1514)  General education course(s)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/>	Biochemistry II (BIOL 4403) University Physics II (PHYS 2204) University Physics II Lab (PHYS 2241)  General education course(s)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <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. Dual Degree Program</b>		<b>WASH U. Dual Degree Program</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> Introduction to World Religions (REL 1513)	3											
<input type="checkbox"/>	Literature: World (ENGL 2603) <i>OR</i> Western (ENGL 2103) <i>OR</i> British (ENGL 2403, 2413, 2703) <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> PHIL/PHRH 2513 <i>OR</i> PHIL/REL 2703	3											
<input type="checkbox"/>	American/U.S. History (HIST 1003 or HIST 1103) (International Students must take HIST 1113)	3											
<input type="checkbox"/>	American Governance (POLS 1113) (International students must take POLS 1013)	3											
<input type="checkbox"/>	Introduction to Sociology (SOC 2013) <i>OR</i> Introduction to Psychology (PSYC 1113)	3											
<input type="checkbox"/>	Mathematics (MATH 1503, ECON 2123, PSYC 2303 or a higher -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 who have passed a 2000 level or above lab science ]	1											
<input type="checkbox"/>	<table border="1"> <thead> <tr> <th>BS</th> <th>BA</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </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.