

PETREE COLLEGE OF ARTS & SCIENCES
Four Year Plan (124 CHs total) *
Bachelor of Science (B.S.) in CELL & MOLECULAR BIOL (CELL) Degree

GENERAL EDUCATION 24.25

First Year – Fall Semester	✓	First Year – Spring Semester	✓
Orientation to Biology (BIOL 1101) Fundamentals of Biology with lab (BIOL 1214) General Chemistry I (CHEM 1104) General Chemistry I Lab (CHEM 1141)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	General Chemistry II (CHEM 1204) General Chemistry II Lab (CHEM 1241) Biology Elective ¹	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
English Composition I General education course(s)	<input type="checkbox"/> <input type="checkbox"/>	English Composition II General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	
Second Year – Fall Semester	✓	Second Year – Spring Semester	✓
Genetics (BIOL 3003) Organic Chemistry I (CHEM 3103) Organic Chemistry Lab (CHEM 3141)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Cell Biology with Lab (BIOL 3514) Organic Chemistry II (CHEM 3203) Organic Chemistry II Lab (CHEM 3241)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
General education course(s)	<input type="checkbox"/> <input type="checkbox"/>	General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	
Third Year – Fall Semester	✓	Third Year – Spring Semester	✓
General Microbiology with Lab (BIOL 3114) General Physics I (PHYS 1503) General Physics I Lab (PHYS 1541) <i>or</i> Univ. Physics I (PHYS 2104) and Univ. Physics I Lab (PHYS 2141) Biochemistry with Lab (BIOL 3714)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Molecular Biology + Lab (BIOL 4214) General Physics II (PHYS 1603) General Physics II Lab (PHYS 1641) <i>or</i> Univ. Physics II (PHYS 2204) and Univ. Physics II Lab (PHYS 2241) Analysis of Scientific Literature (BIOL 4502)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
General education course(s)	<input type="checkbox"/> <input type="checkbox"/>	General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		<i>Admissions tests for Medical, Dental, and Pharmacy Schools are typically taken Spring or Summer of Junior year. Some specific Biology and Social Science courses are strongly recommended prior to these exams; consult with advisors.</i>	
Fourth Year – Fall Semester	✓	Fourth Year – Spring Semester	✓
Biology Capstone (BIOL 4502) Biology Elective ¹	<input type="checkbox"/> <input type="checkbox"/>	Biology Elective ¹	<input type="checkbox"/>
General education course(s)	<input type="checkbox"/> <input type="checkbox"/>	General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	

& MINOR in:	
Courses	CHs
_____	_____
Advisor Signature	MM DD YYYY
_____	_____
Student Signature	MM DD YYYY

✓	Requirements:	BS	BA
<input type="checkbox"/>	English Composition I (ENGL 1113)	3	
<input type="checkbox"/>	English Composition II (ENGL 1213)	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) <i>OR</i> Honors Seminar in Ethics & Lit (ENGL/PHIL 2004H)	3	
<input type="checkbox"/>	Fine Arts (Any ART, FILM, MUS, THRE, DANC, INDP 1013, ENGL 2123)	3	
<input type="checkbox"/>	Philosophy/Ethics (PHIL/REL 2163, 2213, 2313, 2413, 2613, 2703 <i>OR</i> PHIL/PHRH 2513 <i>OR</i> MGMT 2223)	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 Psychology (PSYC 1113)	3	
<input type="checkbox"/>	Mathematics (MATH 1503 or 1603, ECON 2123, PSYC 2303 <i>OR</i> 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"/>	Foreign Language. - BS/BFA requires 6 hours (2 courses) - BA requires 12 hours (4 courses)	6	12
<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.
 ** This template, of 15-16 CHs per semester, with a 124 CHs total (some dedicated to the Major and some dedicated to General Education), will result in a 4-year degree completion.

¹12 CHs of Biology elective courses are required for the degree and may include General Zoology (BIOL 2414), General Botany (BIOL 2214), and/or any 3000- and/or 4000-level BIOL-prefix courses, with the exception of Introductory Biochemistry (BIOL 3103), which may not count as elective CH for this degree program. No more than 6 CH may be BIOL- prefix Directed Study, Research, and/or Internship courses.