

## Bachelor of Science, Biology: Pre-Medicine Concentration (PMED): 2020-2021 Catalog

Course No.	Description	Cr.
<b>First Year Fall</b>		
<input type="checkbox"/> BIOL 110	Evolution, Ecol, & Plant Biol.	4
<input type="checkbox"/> CHEM 121	Chemistry Principles I	4
<input type="checkbox"/> MATH 121 or 112	Calculus/Geom I Calculus	3
<input type="checkbox"/> HIST xxx	History Elective 100-200 level	3
<input type="checkbox"/> WRIT 102	Research Writing	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
<input type="checkbox"/> BIOL 131	Biology Freshman Seminar	0
<b>Total Credits</b>		<b>17</b>

<b>Second Year Fall</b>		
<input type="checkbox"/> BIOL 406	Vertebrate Physiology	4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270	Literature	3
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>17</b>

<b>Third Year Fall</b>		
<input type="checkbox"/> BIOL 302	General Microbiology	4
<input type="checkbox"/> PHYS 104 or 121	Intro to Physics I Gen. Physics I	4
<input type="checkbox"/> BIOL 405	Biochemistry	3
<input type="checkbox"/> SOC SCI	Social Science Elective II	3
<input type="checkbox"/> BIOL 331	Biology Junior Seminar	0
<input type="checkbox"/> EXAM 301	Writing Competency	0
<b>Total Credits</b>		<b>14</b>

<b>Fourth Year Fall</b>		
<input type="checkbox"/> BIOL xxx	Biology Elective	4
<input type="checkbox"/> LANG xxx	Foreign Lang. (102 or higher)	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>16</b>

Total Required Credits: 128

Course No.	Description	Cr.
<b>First Year Spring</b>		
<input type="checkbox"/> BIOL 111	Molecules, Cells, & Anim. Phys.	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> SOC SCI	Social Science Elective I	3
<input type="checkbox"/> RLST 105	Franciscan Goals for Today	3
<input type="checkbox"/> CORE 113	Gen Ed 1 <sup>st</sup> Year Seminar	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
<b>Total Credits</b>		<b>17</b>

<b>Second Year Spring</b>		
<input type="checkbox"/> BIOL 211	Comp. Vertebrate Anat.	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> Statistics	Statistics Course (see note)	3-4
<input type="checkbox"/> PHIL 312	Health Care Ethics (PHIL II req)	3
<input type="checkbox"/> FNAR xxx	Fine Arts Elective	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
<b>Total Credits</b>		<b>17-18</b>

<b>Third Year Spring</b>		
<input type="checkbox"/> BIOL 301	Genetics (Diversity req)	4
<input type="checkbox"/> PHYS 105 or 122	Intro to Physics II Gen. Physics II	4
<input type="checkbox"/> ECON/PLSC/PSYC/SOC	Social Science III	3
<input type="checkbox"/> BIOL 401	Cell & Molecular Biology	4
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>18</b>

<b>Fourth Year Spring</b>		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL 431	Biology Senior Seminar	1
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	2
<input type="checkbox"/> CORE 407	Keystone Seminar	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
<b>Total Credits</b>		<b>12</b>

\*\*\*Sequence of courses may be altered with consent of advisor.

### Biology Elective Course:

Students may take:

Any 200- Biology course EXCEPT BIOL 205, 206, or 214  
Any 300- or 400-level biology course.

### Statistics Requirement can be fulfilled\* by:

BIOL 315 – Biostatistics (S)

MATH 215 – Introductory Statistics (F,S)

STAT 205 – Essentials of Statistics (F,S)

\* Students are encouraged to check with relevant professional schools to verify mathematics and statistics entrance requirements.

### Notes:

BIOL 212 Developmental Biology is recommended as a biology elective.

Consider undergraduate research.

Job Shadow during summer after freshman and sophomore years.

Plan to take entrance exam summer after junior year.

Begin prep for that exam during sophomore year.

STAT 205 or MATH 215 is recommend over BIOL 315 for students that will apply to schools that require two semesters of college mathematics.

MATH 122 (taken as free elective) is required for PHYS 121. Students strong in math are encouraged to take MATH 121/122 & PHYS 121/122.

Consider the following electives for Gen Ed social science electives:

- PSYC 101 - Intro to Psych
- SOC 101/102 - General Sociology
- HIST 245 History of Medicine
- PSYC 204 Developmental Psychology
- SOC 312 Medical Sociology