

## Bachelor of Science, Biology: LECOM Medical 4+4: 2023-2024 Catalog

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

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

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

Course No.	Description	Cr.
<b>Second Year Fall</b>		
□ BIOL 406	Vertebrate Physiology	4
□ CHEM 221	Organic Chemistry I	4
□ LIT 104, 201, 202, 204, 207, 270	Literature	3
□ PHIL 205	Discovering Philosophy	3
□	Diversity Elective	3
<b>Total Credits</b>		<b>17</b>

Course No.	Description	Cr.
<b>Second Year Spring</b>		
□ BIOL 211	Comp. Vertebrate Anat.	4
□ CHEM 222	Organic Chemistry II	4
□ Statistics	Statistics Course (see note)	3-4
□ PHIL 312	Health Care Ethics (PHIL II req)	3
□ FNAR xxx	Fine Arts Elective	3
□ BIOL 231	Biology Sophomore Seminar	0
<b>Total Credits</b>		<b>17-18</b>

Course No.	Description	Cr.
<b>Third Year Fall</b>		
□ BIOL 302	General Microbiology	4
□ PHYS 104	Intro to Physics I	4
or 121	Gen. Physics I	
□ BIOL 405	Biochemistry	4
□ SOC SCI	Social Science Elective II	3
□ PMED 331	Junior Pre-Med Seminar	0
□ EXAM 301	Writing Competency	0
<b>Total Credits</b>		<b>15</b>

Course No.	Description	Cr.
<b>Third Year Spring</b>		
□ BIOL 301	Genetics	4
□ PHYS 105	Intro to Physics II	4
or 122	Gen. Physics II	
□ ECON/PLSC/PSYC/SOC	Social Science III	3
□ BIOL 401	Cell & Molecular Biology	4
□	Free Elective	3
<b>Total Credits</b>		<b>18</b>

Course No.	Description	Cr.
<b>Fourth Year Fall</b>		
□ BIOL xxx	Biology Elective	4
□ LANG xxx	Foreign Lang. (102 or higher)	3
□	Free Elective	3
□	Free Elective	3
□	Free Elective	3
<b>Total Credits</b>		<b>16</b>

Course No.	Description	Cr.
<b>Fourth Year Spring</b>		
□ BIOL 402	Evolution	3
□ BIOL 431	Biology Senior Seminar	1
□ CORE 407	Keystone Seminar	3
□ EXAM 401	Dept. Comp. Exam	0
□	Free Elective	3
□	Free Elective	2
<b>Total Credits</b>		<b>12</b>

### 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)  
# Biostatistics is preferred by LECOM since  
all first year students are required to take it

### Notes:

BIOL 212 Developmental Biology is recommended.  
Consider undergraduate research.  
Job Shadow during summer after freshman and sophomore years.  
Prepare for graduate school entrance exams during summer after junior year (if necessary).  
MATH 122 (taken as free elective) is required for PHYS 121

### LECOM requirements:

You must have a provisional letter of acceptance in the EAP before starting your third year  
Students must maintain a cumulative science GPA of  $\geq 3.2$  and cumulative overall GPA  $\geq 3.4$  at SFU for matriculation at LECOM  
LECOM will only accept AP credits for the English and Behavioral Science courses, if the student scores a four or five on the AP exam  
Science courses must be taken as listed at SFU

LECOM portal: <http://portal.lecom.edu>

Total Required Credits: 128

Updated: 5/2023