

Bachelor of Science, Biology: LECOM Medical 4+4: 2025-2026 Catalog

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

Course No.	Description	Cr.
First Year Fall		
<input type="checkbox"/> BIOL 110	Evolution, Ecol, & Plant Biol.	4
<input type="checkbox"/> CHEM 121	Chemistry Principles I	4
<input type="checkbox"/> MATH 121	Calculus/Geom I	3
<input type="checkbox"/> HIST xxx	History (cc5)	3
<input type="checkbox"/> WRIT 102	Research Writing (cc3)	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
<input type="checkbox"/> BIOL 131	Biology First Year Seminar	0
Total Credits		17

Course No.	Description	Cr.
First Year Spring		
<input type="checkbox"/> BIOL 111	Molecules, Cells, & Anim. Phys. (cc9)	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> Soc Sci	PSYC 101 or SOC 101/102 (cc6)	3
<input type="checkbox"/> THEO xxx	Theology (cc2)	3
<input type="checkbox"/> CORE I	Building a Foundation (cc1)	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17

Course No.	Description	Cr.
Second Year Fall		
<input type="checkbox"/> BIOL 406	Vertebrate Physiology	4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> LIT xxx	Literature (cc7)	3
<input type="checkbox"/> PHIL 105/...	Philosophy (cc11)	3
<input type="checkbox"/> CORE II	Civic Resp. & Citizenship (cc4)	3
Total Credits		17

Course No.	Description	Cr.
Second Year Spring		
<input type="checkbox"/> BIOL 211	Comp. Vertebrate Anat.	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> STAT 205, MATH 215, or BIOL 315	Statistics (cc8)	3
<input type="checkbox"/> PHIL 312	Health Care Ethics (PHIL II req)	3
<input type="checkbox"/> FNAR/ART	Fine Arts & Creative Exp. (cc12)	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
Total Credits		17

Course No.	Description	Cr.
Third Year Fall		
<input type="checkbox"/> BIOL 302	General Microbiology	4
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
or 121	Gen. Physics I	
<input type="checkbox"/> BIOL 405	Biochemistry	4
<input type="checkbox"/> PMED 331	Junior Pre-Med Seminar	0
<input type="checkbox"/>	Free Elective	3
Total Credits		15

Course No.	Description	Cr.
Third Year Spring		
<input type="checkbox"/> BIOL 301	Genetics	4
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
or 122	Gen. Physics II	
<input type="checkbox"/> BIOL 401	Cell & Molecular Biology	4
<input type="checkbox"/> THEO/PHIL	Ethics (cc13)	3
Total Credits		15

Course No.	Description	Cr.
Fourth Year Fall		
<input type="checkbox"/> BIOL xxx	Biology Elective	4
<input type="checkbox"/> ---- xxx	Language and Cultures (cc10)	3
<input type="checkbox"/> BIOL 383	Biol. Research Meth. Sem. (cc15)	2
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		15

Course No.	Description	Cr.
Fourth Year Spring		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> xxx	CORE III (cc14)	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		15

128 Total Required Credits

Updated: 4/2025

Biology Electives (4 cr):

Students select from:

- BIOL 251 Bioinformatics (3 cr)
- BIOL 305 Immunology (3 cr)
- BIOL 317 Developmental Biology (4 cr)
- BIOL 430 Advanced Methods in Molecular Biology (2 cr)
- BIOL 254/354/454 Biology Special Topics (with advisor)
- BIOL 194/294/394/494 Biology Research (2 cr max)

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:

- 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 ≥ 3.2 and cumulative overall GPA ≥ 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>