

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

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

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	Calculus/Geom I (QR)	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
<b>Total Credits</b>		<b>17</b>

Course No.	Description	Cr.
<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 xxx	Literature (cc7)	3
<input type="checkbox"/> PHIL 105/...	Philosophy (cc11)	3
<input type="checkbox"/> CORE II	Civic Resp. & Citizenship (cc4)	3
<b>Total Credits</b>		<b>17</b>

Course No.	Description	Cr.
<b>Third Year Fall</b>		
<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
<b>Total Credits</b>		<b>15</b>

Course No.	Description	Cr.
<b>Fourth Year Fall</b>		
<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
<b>Total Credits</b>		<b>15</b>

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

Course No.	Description	Cr.
<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"/> STAT 205, MATH 215, or BIOL 315	Statistics (cc8)	3
<input type="checkbox"/> THEO/PHIL	Ethics (cc13)	3
<input type="checkbox"/> FNAR/ART	Fine Arts & Creative Exp. (cc12)	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
<b>Total Credits</b>		<b>17</b>

Course No.	Description	Cr.
<b>Third Year Spring</b>		
<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"/>	Free Elective	3
<input type="checkbox"/> BIOL 401	Cell & Molecular Biology	4
<b>Total Credits</b>		<b>15</b>

Course No.	Description	Cr.
<b>Fourth Year Spring</b>		
<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
<b>Total Credits</b>		<b>15</b>

### 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)

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

### Notes:

Consider undergraduate research.

Job Shadow during summer after freshman and sophomore years.

Prepare for DAT

during summer after junior year.

MATH 122 (taken as free elective) is required for PHYS 121

PHIL 212 Healthcare Ethics rec'd for FTAE/PHIL req

### 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>