

2023-2024

## BS.CMOL - Bachelor of Science in Cell and Molecular Biology

## Sample 2-Year Educational Plan

The example below assumes that you enter Seattle University with junior standing (90 credits), have earned a transferable associate degree, and completed:

- One year each of **General Biology with labs and General Chemistry with labs, 2 quarters (12 credits) of Organic Chemistry with labs, and 1 quarter of Calculus (may be Calculus for Life Sciences or Business)**
- **Students with an Associate of Science – Transfer (AS-T) degree may have additional core requirements depending on community college coursework**

Visit the Transfer Equivalency Guide on the Transfer Tools site for more information on how your credits may transfer to SU: <https://www.seattleu.edu/registrar/transfer-tools/>. Some courses not listed on the Transfer Equivalency Guide may still transfer to SU. For courses not found on this tool, compare course descriptions with SU's course catalog to determine equivalent courses at your college/university: <http://catalog.seattleu.edu/>

*This is a sample and not the only way to complete this plan. Number of credits are in parentheses. \*Some classes have prerequisites*

### Year 1

Fall	Winter	Spring	Steps for Success
BIOL 2700 Genetics* (5)	BIOL 2730 Bioinformatics* (5)	BIOL 2750 + 2751 Biotechnology + Lab* (4+2)	<input type="checkbox"/> Revise educational plan in MySeattleU and meet quarterly with your advisor.
PHYS 1050 + 1051 Mechanics + Lab* (4+1)	PHYS 1060 + 1061 Waves, Sound, Elect., & Mag. + Lab* (4+1)	PHYS 1070 + 1071 Thermo, Optics, & Modern Phys + Lab* (4+1)	<input type="checkbox"/> Participate in campus activities and local organizations.
UCOR Module II* (5)	MATH 1210 Statistics for Life Sciences* (5)	UCOR Module II* (5)	<input type="checkbox"/> Investigate career options, attend seminars, and think about post-SU educational programs or internships.

### Year 2

Fall	Winter	Spring	Steps for Success
BIOL 4991 Senior Synthesis I* (2)	BIOL 4992 Senior Synthesis II* (2)	BIOL 4993 Senior Synthesis III* (1)	<input type="checkbox"/> Finalize plan for graduation & review with your advisor.
BIOL 4750 + 4751 Cell Biology + Lab* (4+2)	BIOL Elective* (5)	BIOL 4996 Senior Synthesis Seminar* (1)	<input type="checkbox"/> Apply for graduation on MySeattleU.
BIOL Elective* (5)	CHEM 3600 Introductory Biochemistry* (5)	BIOL Elective* (5)	<input type="checkbox"/> Attend career events and consult with a Career Coach or consider school options.
UCOR Module II* (5)	UCOR Module III* (5)	General Electives (2)	<input type="checkbox"/> Apply for jobs, internships, or graduate or professional programs.

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## University Core Requirements

UCOR classes (SU's general education courses) are listed in the sample plan by what module is recommended. See below for UCOR course titles listed by Module. See [my.seattleu.edu](http://my.seattleu.edu) for prerequisites and [www.seattleu.edu/core](http://www.seattleu.edu/core) for course descriptions. Honors and Matteo Ricci students have different Core requirements.

### Module I

**UGOR 1100** Academic Writing Seminar  
**UGOR 1200** Quantitative Thinking  
**UGOR 1300** Creative Expression & Interpretation  
**UGOR 1400** Inquiry Seminar in the Humanities  
**UGOR 1600** Inquiry Seminar in the Social Sciences  
**UGOR 1800** Inquiry Seminar in the Natural Sciences

### Module II

**UCOR 2100** Theological Explorations  
**UCOR 2500** Philosophy of the Human Person  
**UCOR 2900 or 2910 or 2920** Ethical Reasoning – General, Business, or Health Care

### Module III

**UGOR 3100** Religion in a Global Context  
**UCOR 3400 or UCOR 3600** Humanities or Social Sciences and Global Challenges  
**UGOR 3800** Natural Sciences and Global Challenges

## Important Major Information: BS.CMOL

- Credits in Major: 115
- Minimum Major GPA: 2.0 (some scholarships may require higher)
- Refer to MySeattleU and the catalog for details regarding major curriculum requirements, additional BIOL electives, and course descriptions and requisites
- Students must earn C in prerequisite biology courses and C- in other prerequisite science and math courses
- Plan assumes 1) placement into MATH 1230 by SAT/ACT, SU placement exam, or college credit and 2) MATH 1022 (trigonometry) is not needed due to placement exam or college credit; otherwise, MATH 1022 must be a corequisite of MATH 1230 or 1334
- Prerequisites for BIOL 2750+2751 are: BIOL 1610/1611, 1620/1621, 1630/1631 (all C or better), BIOL 2700 (C+ or better); CHEM 1520; biology major GPA  $\geq 2.8$
- BIOL electives must include the following:
  - Choose one: BIOL 3750 Molecular Biology Project Lab, BIOL 3760 Protein Project Lab, BIOL 3770 Bioinformatics Project Lab
  - Choose one: BIOL 4100 Medical Microbiology, BIOL 4150 Fundamentals of Immunology, BIOL 4700 Molecular Genetics

## Resources for Success

- Map out your own educational plan through MySeattleU Student Planning
- Meet with a Career Coach from the Career Engagement Center
- Sign up for academic support with Learning Assistance Programs
- Explore career options at the “What Can I Do with This Major” page
- Learn more about academic advising on the SU Advising Services page

## Notes

- Meet with your Biology Faculty Advisor to discuss your academic plan
- Get involved with clubs and organizations, service activities, intramurals, etc.
- \* Asterisk denotes course prerequisite(s) and corequisite(s) for course

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Use MySeattleU Student Planning to plan your courses and work closely with your academic advisor on your educational plan. You are responsible for knowing information and tracking changes. Contact your Advising Center for support.

Science & Engineering Advising  
[se-adv@seattleu.edu](mailto:se-adv@seattleu.edu)  
Seattle U Advising Services  
<http://www.seattleu.edu/advising>