

BIO: Cell Biology and Biotechnology Academic Map

This academic map is a suggested four-year schedule of courses based on degree requirements in the GGC catalog. This sample schedule serves as a general guideline to help build a full schedule each term. **Missing milestones could delay your program.**

Name: _____

ID: _____

| FRESHMAN FALL | | | FRESHMAN SPRING | | | FRESHMAN SUMMER |
|--|-------|--|--|-------|--|---|
| Course | Hours | | Course | Hours | | <p>Recommend taking classes in the summer to stay on track</p> <p><u>Possible Summer Activities (discuss these with your mentor):</u></p> <ul style="list-style-type: none"> Research program requirements for graduate and/or professional schools Shadow a professional in your career field Volunteer STEC2500 or BIOL2101 (Note: Alternatively, these courses could be taken during the fall or spring semester) |
| <input type="checkbox"/> ENGLISH COMPOSITION 1 ENGL 1101 | 3 | | <input type="checkbox"/> ENGLISH COMPOSITION 2 ENGL 1102 | 3 | | |
| <input type="checkbox"/> PRE-CALCULUS MATH 1113 | 4 | | <input type="checkbox"/> CALCULUS MATH 2200 | 4 | | |
| <input type="checkbox"/> PRINCIPLES OF CHEMISTRY 1 CHEM 12111K | 4 | | <input type="checkbox"/> PRINCIPLES OF CHEMISTRY 2 CHEM 12112K | 4 | | |
| <input type="checkbox"/> PRINCIPLES OF BIOLOGY 1 BIOL 1107K | 4 | | <input type="checkbox"/> PRINCIPLES OF BIOLOGY 2 BIOL 1108K | 4 | | |
| TOTAL | 15 | | TOTAL | 15 | | |
| RUNNING TOTAL | 15 | | RUNNING TOTAL | 30 | | |
| SOPHOMORE FALL | | | SOPHOMORE SPRING | | | SOPHOMORE SUMMER |
| <input type="checkbox"/> U.S. HISTORY HIST 2111 OR 2112 | 3 | | <input type="checkbox"/> INTRODUCTION TO COMPUTING ITEC 1001 | 4 | | <p>Recommend taking classes in the summer to stay on track</p> <p><u>Possible Summer Activities (discuss these with your mentor):</u></p> <ul style="list-style-type: none"> Shadow a professional in your career field Participate in a Summer R.E.U. (Research Experience for Undergraduate; can be used for STEC4500 credit) Study Abroad Volunteer |
| <input type="checkbox"/> CHOICES FOR LIFE PHED 1101 | 1 | | <input type="checkbox"/> ORGANIC CHEMISTRY 2 CHEM 22111K | 4 | | |
| <input type="checkbox"/> ORGANIC CHEMISTRY 1 CHEM 22111K | 4 | | <input type="checkbox"/> GENETICS BIOL 3200K | 4 | | |
| <input type="checkbox"/> CELL BIOLOGY BIOL 3400K | 4 | | <input type="checkbox"/> MICROBIOLOGY BIOL 3300K | 4 | | |
| <input type="checkbox"/> STATISTICAL DATA ANALYSIS FOR THE SCIENCES MATH 2050 | 3 | | | | | |
| TOTAL | 15 | | TOTAL | 16 | | |
| RUNNING TOTAL | 45 | | RUNNING TOTAL | 61 | | |
| JUNIOR FALL | | | JUNIOR SPRING | | | JUNIOR SUMMER |
| <input type="checkbox"/> PHYSICAL EDUCATION Any PHED except 1101 | 1 | | <input type="checkbox"/> SOCIAL SCIENCE PSYC 1102/SOCI 1101/ANTH 1102/ECON 2100 | 3 | | <p>Recommend taking classes in the summer to stay on track</p> <p><u>Possible Summer Activities (discuss these with your mentor):</u></p> <ul style="list-style-type: none"> Shadow a professional in your career field Participate in a Summer R.E.U. (Research Experience for Undergraduate; can be used for STEC4500 credit) Prepare for entrance exams for graduate and/or professional school Research (STEC4500), Biology Internship (BIOL4800), or service-learning (STEC4800) Study Abroad Volunteer |
| <input type="checkbox"/> HUMANITIES / FINE ARTS 2 RELN 1100 / GEOG 1101 / 2000-LEVEL FOREIGN LANGUAGE | 3 | | <input type="checkbox"/> HUMANITIES / FINE ARTS 1 MUSC 1100 / ARTS 1100 / ENGL 2110 or 2100 / FILM 1005 | 3 | | |
| <input type="checkbox"/> BIOTECHNOLOGY BIOL 3900 | 3 | | <input type="checkbox"/> PHYSICS 2 PHYS 1112K OR PHYS 2212K | 4 | | |
| <input type="checkbox"/> ITEC 2XXX ITEC 2110 or 2120 | 4 | | <input type="checkbox"/> BIOTECHNOLOGY LAB BIOL 4300K | 2 | | |
| <input type="checkbox"/> PHYSICS 1 PHYS 1111K OR PHYS 2211K | 4 | | <input type="checkbox"/> BIOINFORMATICS | 3 | | |
| TOTAL | 15 | | TOTAL | 15 | | |
| RUNNING TOTAL | 76 | | RUNNING TOTAL | 91 | | |
| SENIOR FALL | | | SENIOR SPRING | | | <p>Graduation in May!</p> |
| <input type="checkbox"/> RESEARCH/INTERNSHIP STEC 4500 OR STEC4800 OR BIOL 4800 OR BIOL 4560 OR BIOL 4570 | 3 | | <input type="checkbox"/> INTERDISCIPLINARY APPLICATIONS OF BIO BIOL 4700 | 3 | | |
| <input type="checkbox"/> BIOCHEMISTRY BCHM 3100K | 4 | | <input type="checkbox"/> PHYSICAL EDUCATION Any PHED except 1101 | 1 | | |
| <input type="checkbox"/> AMERICAN GOVERNMENT POLS1101 | 3 | | <input type="checkbox"/> ELECTIVE 3 | 4 | | |
| <input type="checkbox"/> ELECTIVE 1 Electives 1-4: Consider upper-level research-intensive courses and/or service-learning (STEC4800) | 3 | | <input type="checkbox"/> ELECTIVE 4 | 4 | | |
| <input type="checkbox"/> ELECTIVE 2 | 4 | | <input type="checkbox"/> HISTORY HIST 1111, 1112, 1121, 1122, 2111, or 2112 (take one of these courses not already completed) | 3 | | |
| TOTAL | 17 | | TOTAL | 15 | | |
| RUNNING TOTAL | 118 | | RUNNING TOTAL | 123 | | |

This map is not a substitute for academic advisement—contact your advisor if you have any questions about scheduling or about your degree requirements. Also see the current undergraduate catalog for a complete list of requirements, electives, and pre-requisites. *Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information. Specific summer courses may not be offered as planned. Created based on the GGC Concentration requirements.*