

UNIVERSITY OF SOUTHERN MAINE
CATALOG YEAR 2018-2019

BIOLOGY WITH EMPHASIS IN BIOTECHNOLOGY

CORE CURRICULUM

- _____ Entry Year Experience (EYE; must be completed in the first semester by students with fewer than 24 transfer credits)
- _____ College Writing
- _____ Quantitative Reasoning (must be completed prior to Science Exploration)
- _____ Creative Expression
- _____ Cultural Interpretation
- _____ Science Exploration
- _____ Socio-cultural Analysis
- _____ Ethical Inquiry, Social Responsibility, and Citizenship
- _____ Thematic Cluster (3 courses from the same cluster with only 1 course overlapping with the major) or Minor
- _____ Diversity (may overlap with other core requirements)
- _____ International (may overlap with other core requirements)
- _____ Capstone

MAJOR REQUIREMENTS†

- | | | | | |
|---------|-------|--------------|-------|---------------------------|
| BIO 105 | _____ | BIO 311/282* | _____ | One pair of courses from: |
| BIO 106 | _____ | BIO 408 | _____ | 1) BIO 409/410* _____ |
| BIO 107 | _____ | BIO 413 | _____ | 2) CHY 461/462 _____ |
| BIO 201 | _____ | BIO 431/432* | _____ | 3) CHY 461/463 _____ |
| +BIO 2 | _____ | | | |

DEPARTMENTAL REQUIREMENTS†

- | | | | | | | | |
|---------|-------|---------|-------|-----------|-------|-----------|-------|
| CHY 113 | _____ | MAT 152 | _____ | **PHY 111 | _____ | **PHY 114 | _____ |
| CHY 114 | _____ | MAT 220 | _____ | **PHY 112 | _____ | **PHY 116 | _____ |
| CHY 115 | _____ | | | or | | | |
| CHY 116 | _____ | | | **PHY 121 | _____ | **PHY 114 | _____ |
| CHY 251 | _____ | | | **PHY 123 | _____ | **PHY 116 | _____ |
| CHY 252 | _____ | | | | | | |
| CHY 253 | _____ | | | | | | |
| CHY 254 | _____ | | | | | | |

ELECTIVES

_____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____

† Grades of C- or higher are required in all courses. Note that CHY courses require grades of C or higher as prerequisites.
 + Biotechnology majors must take one additional BIO course, numbered 200 or higher, that cannot also count as the capstone.
 * Biotechnology majors may substitute BIO 441 or BIO 443 for one upper level BIO laboratory course.
 ** Biology majors may take **either** PHY 111/114 **and** PHY 112/116 **or** PHY 121/114 **and** PHY 123/116.

NOTE: The University catalog states,

- “For all baccalaureate degrees at the University, a minimum of 30 credits hours of the last 45 hours completed, including at least 9 hours in the major field, must be completed while matriculated in the school or college from which the degree is sought. A student may earn no more than 6 of these 30 credit hours at another campus of the University of Maine System. Under extraordinary circumstances and with supporting documentation, students may request a waiver of this requirement from the dean of the school or college from which the degree is sought. Waivers are not automatically granted, and shall not be granted until at least 30 credits hours, including at least 9 hours in the major field, have been completed while matriculated in the school or college from which the degree is sought.”
- “In addition to the minimum requirements of 120 credits for a baccalaureate degree, a candidate must: (a) receive passing grades in courses required by the University, the school or college, and the major department; (b) accumulate the number of credit hours required by the school or college in which the student is registered; (c) achieve an accumulative average grade point average of not less than 2.00 (some majors require a higher GPA for graduation); (d) meet the requirements of the major department; and (e) complete an Application for Degree on MaineStreet or with the Office of the Registration and Scheduling Services at the beginning of the semester of graduation. **Responsibility for successfully completing the requirements of the program resides with the student.**”