



WESTERN MICHIGAN UNIVERSITY

Schoolcraft College

Fall 2019

## Western Michigan University Biology Curriculum Guide

### Pre biology requirements:

- The following courses are the prerequisites for biology, biomedical sciences, and biology-secondary education (high school level) majors;
- This major is also a good choice for students going into graduate programs and professional schools such as physician assistant, physical therapy, and medical, dental, and veterinary schools;
- A **minimum of 15 credits of biology** must be earned at WMU for the major;
- Only departmental courses in which a grade of “C” or better is obtained may be counted toward a major or minor in Biological Sciences.

### WMU courses

BIOS 1610  
BIOS 1620  
BIOS 2110  
BIOS 2400  
CHEM 1100/1110  
CHEM 1120/1130  
CHEM 3750/3760  
CHEM 3770/3780  
PHYS 1130/1140  
PHYS 1150/1160  
MATH 1220 or 2000  
STAT 3660

### Schoolcraft courses

BIOL 120  
BIOL 130  
BIOL 237  
BIOL 238  
CHEM 111  
CHEM 117  
CHEM 213  
CHEM 214  
PHYS 181  
PHYS 182  
MATH 150 or 145  
MATH 122

### General education requirements:

- Please see the [general education program transfer guide](#);
- All students graduating from the College of Arts & Sciences must meet the world language proficiency by completing two semesters (6-8 hours) of the same foreign language or

American Sign Language, or passing WMU's proficiency by exam. Please contact the College of Arts & Sciences Undergraduate Advising Office at (269) 387-4366 with any questions. Neither the MACRAO Agreement nor the MTA satisfy the world language requirement.

- If the student's first language is not English, then the student is exempt from this requirement. Determination of eligibility for this exemption is based on whether the student was required to take the TOEFL test for admission, and can be verified through the WMU departments of Spanish or World Language and Literatures.
- The College of Arts and Sciences also requires a critical thinking course, to be chosen from Proficiency 4c (see the general education link in the first bullet, above). MACRAO or the MTA will cover this requirement.

**Important notes:**

- The chemistry, physics, and mathematics courses are called "cognate" requirements for biology department majors and may not be waived;
- The physics and chemistry courses have a minimum prerequisite of successful completion of high school advanced algebra (MATH 113 at Schoolcraft);
- Chemistry 1100 also requires a high school chemistry course as a prerequisite (same as CHEM 051 at Schoolcraft). Students should be aware of these prerequisites while they are beginning at the community college;
- For questions about general education requirements please contact the WMU College of Arts and Sciences advisors at the email address given below;
- Prior to enrolling in WMU courses, students should consult the biology department advisor below.

**Approved by:**

Diana Blouin

Megan Larson – Academic Advisor

Department of Biological Sciences

[wmich.edu/biology/advising](http://wmich.edu/biology/advising)

(269) 387-5617

**WMU College of Arts & Sciences**

[wmich.edu/arts-sciences/advising](http://wmich.edu/arts-sciences/advising)

(269) 387-4366

[coas-advising@wmich.edu](mailto:coas-advising@wmich.edu)