



WESTERN MICHIGAN UNIVERSITY

Muskegon Community College

Fall 2018

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 1600
BIOS 1620
BIOS 2110
CHEM 1100/1110
CHEM 1120/1130
CHEM 3750/3760
CHEM 3770/3780
PHYS 1130/1140
PHYS 1150/1160
MATH 1220 or 2000
STAT 3660

MCC courses

BIOL 103
BIOL 104
BIOL 105
CHEM 101/101A
CHEM 102/102A
CHEM 201E/201F
CHEM 202F/202G
PHYS 201
PHYS 202
MATH 161
MATH 115

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 & Sciences also requires a critical thinking course, to be chosen from Proficiency 4c. See the general education transfer guide cited above. MACRAO nor the MTA will cover this requirement.

Important notes:

- The chemistry, physics, and mathematics courses are called "cognate" requirements for biology department majors and are definitely required;
- The physics and chemistry courses have a minimum prerequisite of successful completion of high school advanced algebra (MATH 100A at MCC);
- Chemistry 1100 also requires a high school chemistry course as a prerequisite (same as CHEM 100 and 100A at MCC). 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 & Sciences advisors at the email address given below;
- Prior to enrolling in WMU courses, students should consult the biology department advisor below.

Approved by:

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