



**Kirtland Community College**

**Fall 2016**

## **WMU Curriculum Guide for Freshwater Science and Sustainability**

### **Program description and notes:**

- WMU and Northwestern Michigan College in Traverse City have collaborated to create this new program, which became a WMU offering effective Fall 2014;
- The program provides the broad interdisciplinary training that will enable graduates to help solve problems involving the quality, availability, and use of fresh water;
- The program prepares students for positions in the field such as: watershed managers, freshwater quality analysts, sustainability coordinators, environmental and resource managers, and/or for graduate school;
- The program requires 92 credit hours of coursework. All WMU degrees require a total of at least 122 credit hours for graduation;
- There are two options for students to complete this program:
  - The first is to take as many courses as you can at Kirtland and then to transfer to WMU (in Kalamazoo) for the last two years of the program in regular classroom format;
  - The second option is to take a combination of online and hybrid courses. The hybrid courses include some online coursework and face-to-face meetings which are only available in Traverse City at this time;
- No minor is required;
- There will be a significant fieldwork component to several courses in the program;
- Given the interdisciplinary nature of the program, it is very important that students work regularly with program advisors (see contact information below). Please consult with a program advisor and review the schedule of courses closely when selecting your classes.

### **Courses that may be taken at Kirtland:**

#### **WMU courses**

ANTH 1200

ECON 2010 or 2020 (2010 preferred)

MATH 1110

STAT 3660

GEOG 2250

GEOS 3220

BIOS 1610

#### **Kirtland equivalent courses**

No equivalent

ECO 20200 or 20100

MTH 12000

MTH 20600

No equivalent

No equivalent

No equivalent

BIOS 1620  
CHEM 1100 and 1110

BIO 20100  
CHE 10101 and 10102

Students in this program must earn a grade of “C” or better in all courses counted toward their major. Courses that transfer to WMU must also have a minimum of a “C” grade in order to transfer in.

For further information about this program visit the Environmental and Sustainability Studies program website, linked in the WMU website’s “Academics” (undergraduate) directory pages.

**General Education Requirements:**

- Please find information about [general education requirements](#) on this link;
- The College of Arts and Sciences requires a world language, which is not fulfilled by the MACRAO or the Michigan Transfer Agreement (MTA). This requirement can be met in one of three ways:
  - Completing two years of one high school language with a B- or better in the last (fourth) semester, or at any point after that if more than two years are completed;
  - Completing two semesters of a college-level language (or American Sign Language);
  - Or through passing a language proficiency test. Please contact the WMU World Languages department for languages other than Spanish, and the Spanish department for that language;
- The College of Arts and Sciences curriculum requires a critical thinking course, to be chosen from Proficiency 4c, if MACRAO or MTA has not been met.

**Contact information:**

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Environmental and Sustainability Studies  
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Or

Deb Stoyanoff – Advisor  
Environmental and Sustainability Studies  
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And

College of Arts and Sciences (general education advising)  
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