



Kirtland Community College

Fall 2016

Western Michigan University Curriculum Guide for Sustainable Brewing

Program description and notes: the goal of the program is to educate students to be intimately familiar with the technical features of brewing, to appreciate the rich landscape of the industry, and to comprehend and address the environmental challenges faced by the industry in the 21st century.

- The program was launched in a joint effort between WMU and Kalamazoo Valley Community College in the Fall of 2015;
 - KVCC offers the brewing courses at its Kalamazoo campus;
 - Twenty six (26) credits and an externship are offered;
- You will learn the brewing process in a teaching brewery outfitted with the comprehensive functionality of industry equipment and facilities that incorporate sustainable brewing practices;
- This program is the first of its kind in the nation;
- The program includes classroom work that is coupled with hands-on experience in a small-scale teaching brewery going through the process of brewing from “grain to glass”;
- Students seeking only the brewing certificate can complete that as a stand-alone program at KVCC, or they can complete the certificate as part of an associate’s degree designed specifically to transfer into the bachelor of science program at WMU;
- Students can also begin their studies at another community college, college or university, or WMU and complete the KVCC certificate along the way to their bachelor’s program.

Courses that can be completed at Kirtland:

WMU courses

BUS 1750
ENGL 1050
ENG 1100 or COM 1700
BIOS 1600
BIOS 1610
BIOS 1620
BIOS 2500
CHEM 1100/1110
CHEM 1120/1130
CHEM 3700/3710
PHYS 1130/1140
PHYS 1150/1160

Kirtland courses

BUS 10100
ENG 10303 or 11800
ENG 21400 or SPE 11400
No equivalent
No equivalent
BIO 20100
No equivalent
CHE 10101/10102
CHE 10201/10202
No equivalent
PHY 20101/20102
PHY 20201/20202

MATH 1180
PSCI 2000

MTH 13000 and 14000 or 18001
POL 10100

General education requirements:

- Please see the WMU [general education program transfer guide](#) for information about all of the courses that you can take at Kirtland that will count for requirements at WMU. Some of the courses in this program (i.e. sciences and POL 10100) will fulfill some general education requirements as well as program requirements;
- The SB major is administered through the WMU College of Arts and Sciences (CAS). CAS requires a foreign language of all students that graduate in one of their many majors. You can meet that two-semester requirement in one of three ways:
 - Two years of one high school language, with a B- or better in the last (4th) semester;
 - Two semesters of a college level 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. Neither the MACRAO Agreement nor the Michigan Transfer Agreement 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 Languages and Literatures.

Approved by:

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Contact information:

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