



**Grand Rapids Community College**

**Fall 2018**

## **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 21<sup>st</sup> century.

- The program was launched in the Fall of 2015 as a joint effort between WMU and Kalamazoo Valley Community College;
- The program includes classroom work that is coupled with hands-on experience in a small-scale teaching brewery outfitted with the comprehensive functionality of industry equipment and facilities that incorporate sustainable brewing practices;
- KVCC offers a Sustainable Brewing certificate that transfers to WMU as part of the Bachelors of Science degree;
- Students can transfer just the brewing certificate at KVCC or they can complete the certificate as part of an associate's degree; both options are 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;
- Equivalent brewing coursework at other schools can also be accepted in place of the KVCC certificate on a case-by-case basis.

### **Courses that can be completed at GRCC:**

#### **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  
CHEM 3750/3760  
CHEM 3770/3780

#### **GRCC courses**

BA 103  
EN 101 or 102  
EN 233 or COM 135  
No equivalent  
BI 151  
BI 152 or 154  
BI 232  
CHM 130/131  
CHM 140/141  
CHM 240  
CHM 260/261  
CHM 270/271

PHYS 1130/1140

PH 125

PHYS 1150/1160

PH 126

MATH 1180

MA 131\* (MA 129, 133 , 134 will be accepted)

PSCI 2000

PS 110

**General education requirements:**

- Please see the WMU [general education program transfer guide](#) for information about all of the courses that you can take at GRCC that will count for requirements at WMU. Some of the courses in this program (i.e. sciences and PS 110) will fulfill some general education requirements as well as program requirements;
- The SB major is administered through the WMU College of Arts & Sciences (CAS). 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 CAS 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 or the MTA will cover this requirement.

**Approved by:**

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