



## Kalamazoo Valley Community College

2022/23

### 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 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.
- ❖ Students 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 firsthand 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 complete the certificate as part of an associate 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 KVCC:

##### WMU Courses

##### KVCC Courses

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BIOS 1610	BIO 101
BIOS 1620	BIO 104
BIOS 2500	BIO 201
BUS 1750	BUS 101
CHEM 1100 1110	CHM 120
CHEM 1120 1130	CHM 130
CHEM 3700 3710	CHM 150
ENGL 1050	ENG 110 or 160
ENG 1100 or COM 1700	ENG 111 or COM 113
MATH 1180	MATH 152 or 156
PHYS 1130 1140	PHY 111
PHYS 1150 1160	PHY 112
PSCI 2000	PSI 101
HPHE 1110 or HOL 1000	WPE 101 or 124 or 125

ENVS 3150	BREW 100: Introduction to Brewing
ENVS 3150	BREW 110: History, Culture, and Sustainability
ENVS 3150	BREW 130: Brewing Ingredients
ENVS 3150	BREW 140: Brewhouse Operations & Technology
ENVS 3150	BREW 151: Biochemistry of Brewing
ENVS 3150	BREW 152: Microbiology of Brewing
ENVS 3150	BREW 160: Styles, Sensory & Food Pairing
ENVS 3150	BREW 170: Cellar Operations & Technology
ENVS 3150	BREW 200: Taproom Management & Service
ENVS 3150	BREW 225: Brewing Practicum
ENVS 3150	BREW 230: Packaging & Post-Process
ENVS 3150	BREW 250: Brewing Management & Quality Assurance
ENVS 3150	BREW 275: Brewing Internship

### General Requirements:

- ❖ Please refer to the [WMU Essential Studies \(WES\) Transfer Guide](#) that lists courses meeting WES requirements at WMU that may be taken at KVCC.
- ❖ All students graduating from the College of Arts & Sciences must complete the College of Arts and Sciences Essentials (CASE). This includes world language proficiency (detailed in next bullet point), ENGL 1050/1060 sequence, and by completing the baccalaureate writing requirement.
  - Students will 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.
- ❖ Students receiving the Michigan Transfer Agreement (MTA) will have CASE (including world language proficiency), and WMU Essential Studies Level III – Connections to complete.
- ❖ For those *not* obtaining the MTA, please refer to WMU Essential Studies Transfer Guide.
- ❖ You may email the WMU advisors in the College of Arts and Sciences for further clarification about **WES** or **CASE**.

### Approved by:

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