



## Sustainability C.A.

Career Community: Science and Mathematics

Curriculum Code: 1487

~~Effective: Fall 2022—Summer 2027~~

Discontinued Fall 2023; Last Award Summer 2024

### Description

This certificate curriculum promotes entry-level technical knowledge, ethics, and rationale for a world view of sustainable practices in agriculture, alternative energy, business, construction, energy usage, natural resource management, and public policy. This certificate is for individuals seeking to enhance their employability by supplementing their existing credentials. Examples include those studying building trades or construction management seeking to implement sustainable building practices or students who hope to work in governmental and non-governmental agencies who intend to apply or advocate for sustainability.

### Milestone

Completion of CHEM 135 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

### Contact Information

Contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CHEM 135	Chemistry in Society	4 / 5
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOL 230	Environmental Geology	4 / 6
MATH 115*	Technical Math II	4 / 4
PHYS 200	Intro To Applied Physics	4 / 5

\*MATH 115 or higher

### Program of Study Required Courses, Limited Choice - Architecture – *Select one*

Course Code	Course Title	Credit / Billing Hours
ARCH 113	Materials & Methods of Constr.	4 / 6
ARCH 275	Sustainable Building Design	4 / 6

**Program of Study Required Courses, Limited Choice - Biology – Select one**

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 210	Natural Resource Conservation	4 / 6

**Program of Study Required Courses, Limited Choice - English – Select one**

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 124	Technical Writing	3 / 3

**Minimum Total Credit Hours**

35 credits / 43 billing hours

**Recommended Course Sequence**

Semester I
ECON 201
MATH 115
Limited Choice – Architecture

Semester II
CHEM 135-Milestone course
ECON 202
Limited Choice - English

Semester III
GEOL 230
PHYS 200
Limited Choice - Biology

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*