



Conservation and Sustainability C.A.

Career Community: Science and Mathematics

Curriculum Code: 1844

Effective: Fall 2023 – Summer 2028

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 151 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

For further information, including career options, course substitutions and waivers, etc., 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
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
GEOL 230	Environmental Geology	4 / 6
MATH 120	College Algebra	4 / 4

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 131	Honors Composition I	4 / 4

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

Course Code	Course Title	Credit / Billing Hours
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4

Minimum Total Credit Hours

36 credits / 48 billing hours

Recommended Course Sequence

Semester I
CHEM 151 – Milestone course
CHEM 161
MATH 120
Limited Choice - Geography

Semester II
BIOL 127
Limited Choice - Biology
Limited Choice - English

Semester III
BIOL 128
GEOL 230
Limited Choice - Architecture

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.