

Agriculture

Concentration Certificate Options Program Code TBD



Advisor: Ken Flowers, (269) 927-8100 ext. 3032, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Certificate Concentrations

Basic Education Requirements: (MSU Certificates + LMC Degrees)

MSU

AT 293 Professional Internship in Ag. Technology	MSU - 3 min.
HRT 215 Plant Industries Seminar	MSU - 1
PLP 200 Plant Diseases and Their Pathogens.....	MSU - 3
ENT 110, Applied Entomology for Ornamentals & Turf	MSU - 3
CSS 210, Fundamentals of Soil & Landscape Science.....	MSU - 3
HRT 213, Landscape Maintenance.....	MSU - 2
HRT 218, Landscape Irrigation	MSU - 3

LMC

Biology 112, Principles of Biology II.....	LMC - 4
Chemistry 101, Introductory Chemistry.....	LMC - 4
Business 203, Principles of Economics (Macro)	LMC - 3
Computer Information Systems 100, Introduction to Computer Literacy	LMC - 3
English 101, English Composition.....	LMC - 3

35 credits

MSU Institute of Agricultural Technology Certificate: (Concentrations below)

minimum credit requirements (minimum of 24 from MSU credits): 48 credits

Applied Plant Science with concentration in Commercial Horticulture Operations

HRT-208, Pruning and Training of Hort Systems	MSU - 3
ESA 225, Land & Environmental Issues in Law.....	MSU - 3

6 credits

Applied Plant Science with concentration in Commercial Turfgrass Operations

CSS-202/203, The World of Turf and Applied Turf Management.....	MSU - 2/1
CSS 267, Turfgrass Practices and Strategies	MSU - 2
ESA 225, Land & Environmental Issues in Law.....	MSU - 3

8 credits

Applied Plant Science with concentration in Landscape and Nursery

HRT 211, Landscape Plants I	MSU - 3
HRT 212, Landscape Plants II	MSU - 3
HRT 111, Landscape Planning & Design	MSU - 3

9 credits

About the Area of Study

The Applied Plant Science Certificate – Students completing the basic education requirements may apply for other concentration offerings.

This is a new program to be offered at LMC beginning in Winter 2010. Please check the LMC website for updates.

Agriculture – Enology

Associate in Applied Science Program Code TBD



Natural Resources
and Agriscience

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Program Prerequisites

Proficiency in reading, English and mathematics on the assessment or successfully Complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

ENGL 101, English Composition	LMC - 3
English 103, Report Writing, or English 102, English Composition	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

PLP 200, Plant Diseases and Their Pathogens.....	MSU - 3
ENT 110, Applied Entomology for Ornamentals & Turf	MSU - 3
CSS 210, Fundamentals of Soil Science	MSU - 3
BIOL 112, Principles of Biology II.....	LMC - 4
BUSA 203, Principles of Economics (Macro).....	LMC - 3
CIS 100, Introduction to Computer Literacy	LMC - 3
AT 293, Professional Internship in Ag. Technology	MSU - 3 min.
ESA 225, Land & Environmental Issues in Law.....	MSU - 3

Major

VIN 146, Introduction to Enology	VESTA - 3
VIN 148, Winery Sanitation	VESTA - 3
VIN 160, Winery Equipment Operation.....	VESTA - 2
VIN 246, Intermediate Enology	VESTA - 3
VIN 257, Fall Wine Production Internship	VESTA - 3
VIN 259, Cellar Operations Technology.....	VESTA - 2
VIN 266, Sensory Evaluation	VESTA - 3
VIN 268, Wine and Must Analysis	VESTA - 3
VIN 210, Intro to Wine Microorganisms	VESTA - 3
CHEM 101, Introductory Chemistry	LMC - 4

Electives (choose 1)

VIN 111, Intro to Viticulture & Vineyard Establishment	VESTA - 3
VIN 211, Integrated Pest Management	VESTA - 3
VIN 293, Soils for Viticulture.....	VESTA - 3

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Applied Plant Science Certificate – Concentration in Enology provides students with a solid background in plant science along with the specific expertise and skills needed for careers in the rapidly expanding wine industry, both in Michigan and throughout North America and beyond. The combination of on-line enology courses delivered by experts from throughout the United States, hands-on experience at local wineries and vineyards and the fundamental plant science courses makes the Enology concentration unique and valuable

Certificate and Degree Options

Graduates of the program receive a Certificate from the MSU Institute of Agricultural Technology. Students can continue their class work to obtain Associates in Applied Science (AAS) from the community college partners in addition to the Certificate from MSU. Should students wish to continue their education, credits will transfer to a bachelors program at MSU.

Transfer Option

This program is offered only off-campus in southwest Michigan in partnership with Lake Michigan College and in northwest Michigan in partnership with Northwestern Michigan College, West Shore Community College, North Central Michigan College and Kirtland Community College.

Sample Course Sequence

An advisor will help you develop a program plan.

This is a new program to be offered at LMC beginning in Winter 2010. Please check the LMC website for updates.

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Agriculture – Viticulture

Associate in Applied Science Program Code TBD



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Program Prerequisites

Proficiency in reading, English and mathematics on the assessment or successfully Complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 102, English Composition.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present	3
* Physical Education 200, Healthful Living, or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support Courses

HRT 215, Plant Industries Seminar	MSU - 1
PLP 200, Plant Diseases and their Pathogens	MSU - 3
ENT 110, Applied Entomology for Ornamentals & Turf	MSU - 3
CSS 210, Fundamentals of Soil Science	MSU - 3
HRT 218, Landscape Irrigation	MSU - 3
BUSA 203, Principles of Economics (Macro).....	LMC - 3
ENGL 101, English Composition	LMC - 3
AT 293, Professional Internship in Ag. Technology	MSU - 3 min.
ESA 225, Land & Environmental Issues in Law.....	MSU - 3
HRT 208, Pruning and Training of Hort Systems.....	MSU - 3

Major

VIN 111, Intro to Viticulture & Vineyard Establishment	VESTA - 3
VIN 113, Winter Viticulture Technology	VESTA - 2
VIN 114, Spring Viticulture Technology.....	VESTA - 2
VIN 115, Summer Viticulture Technology	VESTA - 2
VIN 211, Integrated Pest Management	VESTA - 2
VIN 213, Midwest Vineyard Management	VESTA - 2
VIN 293, Soils for Viticulture.....	VESTA - 3
BIOL 112, Principles of Biology II.....	LMC - 4
CHEM 101, Introductory Chemistry	LMC - 4
CIS 100, Introduction to Computer Literacy	LMC - 3

Electives

VIN 146, Introduction to Enology, or	VESTA - 3
VIN 266, Sensory Evaluation	VESTA - 3

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

The Applied Plant Science Certificate – Concentration in Viticulture provides students with a solid background in plant science along with the specific expertise and skills needed for careers in the rapidly expanding grape industry, supplying grapes for table, juice and wine making. This skill and expertise is in demand in Michigan and throughout North America and beyond. The combination of on-line viticulture courses delivered by experts from throughout the United States, hands-on experience at local vineyards, fresh markets, juice processors, packing plants and wineries and the fundamental plant science courses makes graduates in the Viticulture concentration in high demand.

Certificate and Degree Options

Graduates of the program receive a Certificate from the MSU Institute of Agricultural Technology. Students can continue their class work to obtain Associates in Applied Science (AAS) from the community college partners in addition to the Certificate from MSU. Should students wish to continue their education, credits will transfer to a bachelors program at MSU.

Transfer Option

This program is offered only off-campus in southwest Michigan in partnership with Lake Michigan College and in northwest Michigan in partnership with Northwestern Michigan College, West Shore Community College, North Central Michigan College and Kirtland Community College.

Sample Course Sequence

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