

# AGRICULTURE - Agricultural Operations Pathway

## Business Division

The agriculture program at Monroe County Community College provides students with a solid background in plant and soil science, precision agriculture, agriculture management, entomology, plant pathology and additional fundamentals of agriculture.

### Career Opportunities in Ag Operations

Graduates typically will find employment opportunities in:

- Crop and farm product processing facilities
- Crop production management
- Equipment retail sales and service
- Farm operations
- Production and agriculture service companies

### Program and Transfer Information

Michigan State University and MCCC have partnered together to offer students an opportunity to earn a certificate in agricultural operations and an associate of applied science in agriculture. The certificate, awarded by MSU, will include 34 credits of agriculture-oriented courses through the Institute of Agricultural Technology, combined with a minimum of 26 additional credits from MCCC to total 60 credits.

The associate of applied science awarded by MCCC will include 34 credits offered by the MSU/Institute of Agricultural Technology plus 19-20 general education credits and a minimum of 6-7 elective credits from MCCC to equal 60 total credits.

Students wishing to work toward a bachelor's degree may receive preferred transfer status at Michigan State University after earning the associate degree at MCCC.

For more information please contact Andrew McCain, program coordinator, at 734.384.4155 or amccain@monroecc.edu.

### Courses Delivered By The Michigan State University - Institute of Agriculture Technology

	<b>Credits</b>
	<b>28</b>
ABM 130 (Farm Management I)3	3
AE 131 (Agricultural Water Resource Management)	3
AE 143 (Application of Precision Agriculture Technologies)	3
AT 202 (Agricultural Regulation, Compliance and Safety)	3
AT 293 (Professional Internship in Agricultural Technology)	3
CSS 101 (Introduction to Crop Science)	3
CSS 105 (Agricultural Industries Seminar)	1
CSS 126 (Introduction to Weed Management)	2
CSS 143 (Introduction to Soil Science)	2
ENT 110 (Applied Entomology of Economic Plants)	3
PLP 105 (Fundamentals of Applied Plant Pathology)	2

A minimum of 6 additional MSU CANR/IAT credits must be completed with approval from the program coordinator. . . . . 6

**Total MSU/IAT Program Credits                    34 credits**

### Courses Delivered By Monroe County Community College

	<b>Credits</b>
<b>General Education Competency Requirements</b>	<b>19-20</b>
C1 Natural Science Graduation Elective	4
C2 Mathematics Competency Elective	3 or 4
C3 ENGL 151 (English Composition I)	3
C4 BMGT 160 (Managing in the Digital Enterprise) or CIS 130 (Introduction to Computer Information Systems)	3
C5 Human Experience Competency Elective	3
C6 Social Systems Competency Elective	3

See the General Education Requirements on page 33 or the college website ([www.monroecc.edu](http://www.monroecc.edu)) for a list of courses that satisfy the General Education Learning Competencies.

### Students must also complete an additional 6-7 elective credits offered at MCCC

	<b>Credits</b>
<i>(Recommended options, not limited to those listed)</i>	<b>6-7</b>
ACCTG 151 (Accounting Principles)	4
ACCTG 152 (Accounting Principles)	4
AST 102 (Electrical Systems I)	4
BIOL 156 (Introduction to Environmental Science)	4
BIOL 251 (Elements of Botany)	4
BUSAD 151 (Introduction to Business)	4
BUSAD 170 (Small Business and Entrepreneurship)	3
BMGT 160 (Managing in the Digital Enterprise)	3
BMGT 201 (Principles of Management)	3
BSLW 251 (Business Law)	4
CHEM 150 (Fundamental Principles of Chemistry)	4
ESC 151 (Earth Science)	4
ECON 251 (Principles of Macroeconomics)	3
ECON 252 (Principles of Microeconomics)	3
ELEC 125 (Fundamentals of Electricity)	3
GEOG 151 (Elements of Physical Geography)	4
MCOM 201 (Principles of Marketing)	3
MET 151 (Introduction to Meteorology)	4
WELD 100 (Introduction to Welding Processes)	4

**Total Credits Needed To Earn A Certificate  
and an Associate of Applied Science                    60 credits**