# AGRICULTURAL OPERATIONS - MSU - APPLIED

Students seeking an Associates of Applied Science in Agricultural Operations can move directly in the workforce or continue on to further studies. Students will take courses concurrently from Glen Oaks and Michigan State University Institute of Agricultural Technology to earn the AAS degree and certificate. Students will study in such fields as soil and water usage, plant nutrients, crop disease and pest management, natural resource and land management, emerging technologies, and regulations. Students are required to meet with advisors from Glen Oaks and IAT program coordinator on course selection.

## **Program Outcomes**

- 1. Think critically.
- 2. Communicate effectively.
- 3. Exhibit information competency.
- 4. Recognize diverse perspectives.

## Requirements

Code	Title	Credits
Community Colleg	rn a minimum grade of 2.0 in all Glen Oaks ge courses that are to be transferred to MSU for ertificate program.	
English Composition		3.00
ENG-121	ENGLISH COMPOSITION I	
Communications		3.00
COM-110	INTERPERSONAL COMMUNICATIONS	
or COM-150	PUBLIC SPEAKING	
Mathematics		3.00
MATH-109	MATH FOR TECHNICIANS I	
<b>Humanities or Fin</b>	e Arts/Social Sciences	3.00
Complete one Humanities or Fine Arts or Social Sciences course from MTA Course listing <sup>2</sup>		
General Education		3.00
Complete 3 additional general education credits to meet a minimum of 15		
Elective Courses		
Select 11 elective credits as needed to reach 26 total GOCC credit hours		

<sup>&</sup>lt;sup>1</sup> Course has prerequisite(s).

**Total Credits** 

Note: No courses under 100 level are accepted toward this degree.

#### **Suggested Electives**

Code	Title	Credits
ACCT Courses		2.00
AGT-101	HYDRAULIC THEORY & OPERATION	2.00
AGT-102	PRODUCTION AGRICULTURE	2.00

AGT-104	VEHICLE/EQUIPMENT ELEC FUNDAMENTALS	3.00
AGT-109	HEATING/VENTING/AC SYSTEMS	2.00
AGT-116	COMBINE MAINTENANCE & REPAIR	3.00
ART-115	INTRODUCTION TO GRAPHIC DESIGN	3.00
ART-116	COLOR THEORY FOR GRAPHIC DESIGN	3.00
ART-170	IMAGE MANIPULATION: PHOTOSHOP	3.00
ART-172	DIGITAL ILLUSTRATION <sup>1</sup>	3.00
ART-274	TYPOGRAPHY <sup>1</sup>	3.00
ART-276	ADVERTISING DESIGN <sup>1</sup>	3.00
BUS-104	INTRO TO BUSINESS <sup>1</sup>	4.00
COM Courses		3.00

<sup>1</sup> Course has prerequisite(s).

# **MSU IAT Requirements**

Code	Title	Credits
MSU IAT REQU	JIREMENTS	
AFRE 130 FARI	M MANAGEMENT I	3.00
AE 131 AGRICU	JLTURAL WATER RESOURCE MANAGEMENT	3.00
AE 143 APPLIC	CATION OF PRECISION AG TECHNOLOGIES	3.00
AT 100 CAREER	R DEVELOPMENT IN AGRICULTURAL TECHNOLOG	Y 1.00
AT 202 AGRICU	JLTURAL REGULATION, COMPLIANCE AND SAFET	Y 3.00
AT 293 PROFES	SSIONAL INTERNSHIP IN AGRICULTURAL	3.00
CSS 101 INTRO	DDUCTION TO CROP SCIENCE	3.00
CSS 126 INTRO	DDUCTION TO WEED MANAGEMENT	2.00
CSS 203 WORL	LD OF SOILS	2.00
ENT 110 APPLI	IED ENTOMOLOGY OF ECONOMIC PLANTS	3.00
PLP 105 FUND	AMENTALS OF APPLIED PLANT PATHOLOGY	1.00
PLP 105L FUNI LABORATORIES	DAMENTALS OF APPLIED PLANT PATHOLOGY S	1.00
MSU ELECTIVE	ES	6.00
Total Credits		34.00

### **Total Credit Hours: 60 credits**

MSU Courses are billed through MSU.

26.00

GOCC Tuition is calculated on contact hours. Current/Updated: 07/01/2023

Course	Title	Credits
Fall 1		
GOCC Courses		
COM-110 or COM-150	INTERPERSONAL COMMUNICATIONS or PUBLIC SPEAKING	3.00
ENG-121	ENGLISH COMPOSITION I	3.00
GOCC ELECTIVE COURSE		3.00
MSU COURSES		
AT 100 CAREER DEVELOPMENT IN AGRICULTURAL TECHNOLOGY		1.00
AT 202 AGRICULTURAL REGULATION, COMPLIANCE AND SAFETY COURSE		3.00
CSS 203 WORLD OF SOILS		2.00
	Credits	15.00
Winter 1		
GOCC ELECTIVE COURSES		5.00
MSU COURSES		
AFRE 130 FARM MANAGEMENT I		3.00
AE 131 AGRICULTURAL WATER RESOURCE MANAGEMENT		3.00

Michigan Transfer Agreement (MTA) Course Listings (https:// catalog.glenoaks.edu/earning-your-degree/student-learning-outcomes-MTA/)

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