

# Center of Science in Agriculture



For more information contact your Guidance Counselor or:



Miami Valley Career Technology Center  
6800 Hoke Road Clayton, OH 45315-9740  
Toll Free 1 877-766-8282, Mrs. Oldham 854-6390  
or [www.mvctc.com](http://www.mvctc.com)

The MVCTC is dedicated to providing equal admission opportunities, equal educational opportunities, and equal employment opportunities without regard to race, religion, color, national origin, ancestry, age, sex, sexual orientation, handicap, marital status, or veteran status.

## Program Highlights

Largest Career Employment Field in Ohio  
Leadership and Communication Skills  
High Level Technical and Academic Skills  
State-Of-The-Art Equipment/Facilities  
Inquiry Based Hands-On Learning  
Over 300 Career Opportunities  
Indoor and Outdoor Careers

## Special Features

150-Acre Outdoor Lab  
Industry-Related Technology/Equipment  
FFA - Enjoy travel as you compete, develop leadership skills, personal growth and career success  
Industry Connections  
Early College Connections  
Advanced Placement

## Career Opportunities

Research over 300 careers at [www.ffa.org](http://www.ffa.org)

Sample careers:  
Engineering  
Plant and Animal Genetics  
Precision Agriculture Technologies  
Sales and Marketing  
Food Safety and Biosecurity  
Environmental Specialist  
Ag Educator  
Communications Specialist  
Extension Agent  
Food Scientist  
Nutritionist  
Microbiologist

## Job Outlook

Employment opportunities for students with expertise in food, agricultural, and natural resources are expected to remain strong during the next five years. There is a predicted 37.5% shortage of qualified employees trained in agriculture during this time period. Graduates with business, management, scientific and engineering training can expect to find the most career opportunities.

## Career Pathway To

Ag Resources Management  
Animal Science  
Environmental Engineering  
Food Science  
Plant Science  
Power Technologies  
Veterinary Science



2009-2010

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## SA Level 1

Required  
 Lab - 3 Credits  
 English 3 - 1 Credit  
 Communications & Leadership - 1 Credit

Students have 1 choice from each of the below fields.

Elective  
 Computer Ethics  
 Global Issues  
 Interior & Landscaping Design  
 Auto Electrical Systems  
 Workplace Literacy

Math  
 Algebra I+  
 Geometry+  
 Algebra II+  
 Advanced Math+  
 Pre-Calc+\*+  
 Dual Credit College Algebra/Statistics if requirements met  
 or Pre-Calc

Science  
 Bio-Science  
 Earth Science  
 Anatomy & Physiology I  
 Chemistry  
 Applied Physics  
 Dual Credit College Physics

## SA Level II

Will vary depending on Level II major.

See individual program sheets for:

Ag Resource Management  
 Animal Science Management  
 Environmental Engineering  
 Food Science  
 Plant Science  
 Power Technologies  
 Veterinary Science

## MIAMI VALLEY CAREER TECHNOLOGY CENTER 2009-10 COURSE OFFERINGS

All students attending MVCTC a FULL day have an opportunity to receive up to 8 credit hours.

### Apprenticeship:

Students in Apprenticeship will not have the same options available as they are listed.

### College Tech Prep:

- Tech Prep students must have a C or better in Algebra I by the end of their junior year.
- Students enrolled in HP, BP, and RP also must have a C or better in Biology by end of junior year.
- Tech Prep students must complete Algebra II before graduation.

### Dual Credit:

Dual enrollment is not PSEO. Dual enrollment allows students the opportunity to remain on the MVCTC campus, take a college level course during the school day, and earn both high school and college credit.

### Electives:

Students choose only from the electives listed on the program course request sheet.

Junior students who need to pass OGT Social Studies and senior students who need to pass OGT Science will receive test preparation. Students still need to make a 1st, 2nd, and 3rd choice. Electives earn 0.5 credit per semester. Business Technology, Child Development Theory, CDA, and Workforce Spanish are full year 1 credit courses.

### Miscellaneous Course Information:

The symbols on this sheet are explained below.

- + Students who need to pass OGT Math will receive test preparation. Most of these courses are not approved as an NCAA core course.
- \* Students entering with the required program science will be placed in the next level science course.
- \*- Anatomy and Physiology is a prerequisite.
- \*-- Chemistry is a prerequisite.
- \*\* Additional information is provided below the program name.
- \*\*\* C or higher in Algebra II is a prerequisite.
- \*+ B or higher in advanced math or approval by instructor is a prerequisite.

Courses subject to change.