Autumn Semester 2018

Schedule of Courses

Registration deadline:
Aug. 6, 2018
Payment deadline:
Aug. 14, 2018
Classes begin:
Aug. 21, 2018
Degree Options
Ohio State ATI, located in Wooster, Ohio, offers Associate of Applied Science and Associate of Science (the transfer option) degrees in one or more of 26 majors and various certificate programs. Each program of study provides excellent career preparation, combining coursework with a variety of hands-on practical experiences and the opportunity to make professional contacts with industry insiders. Ohio State ATI maintains a 99% job placement rate for all graduates within four months of graduation.

Continuing Education & Lifelong Learning
Students of all ages attend Ohio State ATI, for both personal and professional reasons. Adult learners can attend on a part-time or full-time basis, whether auditing courses or completing courses for a grade. Ohio State ATI’s Business Training & Educational Services (BTES) staff can answer your questions about continuing education options and help you get enrolled.

Senior Citizen Options
Program 60 is a University-wide program offering adult learners age 60 or older the option of enrolling tuition-free! If you are 60 or older, you can enroll on a non-credit basis in the credit courses on our Wooster campus, given space available and instructor permission. While tuition is waived, Program 60 participants are responsible for paying any laboratory fees.

Visiting Campus
We invite you visit us anytime. If you wish to meet with a faculty member or talk to someone about getting enrolled, please contact Zac at 330-287-7511 or burkey.56@osu.edu.

Or plan to attend one of our open houses:
Oct. 20, 2018  March 2, 2019
Nov. 17, 2018  April 6, 2019
Feb. 18, 2019
The open house will provide you an opportunity to meet faculty, explore career options, and tour our 50-acre campus, 18-hole golf course, horticultural complex and 1,700-acre farm laboratory.

Register by contacting the Office of Admissions at 330-287-1327, or register on-line at www.ati.osu.edu. Dates are subject to change.

Business and Industry Training
Ohio State ATI’s Business Training & Educational Services (BTES) is a leader in workforce development and performance improvement training, from leadership development to technical maintenance skills. We are honored to have received the Team NEO Economic Development Plus Award in Workforce Development, two Program Excellence Awards from the Ohio Continuing Higher Education Association, and to have been partners in four Governor’s Workforce Excellence Awards.

If your company is looking for a better way to provide training and development within your workforce, contact BTES.

For More Information
For more information, to schedule a visit, or to register for classes, call 330-287-7511, email burkey.56@osu.edu, or visit our Website at www.ati.osu.edu.

Two Easy Ways To Register
CALL Business Training and Educational Services at (330) 287-7511.
OR
E-MAIL the BTES office at burkey.56@osu.edu.

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Tuition - subject to change. Please contact us for more information.
Agricultural Communication

Agricultural Issues in Contemporary Society: 2367 (3 credits)
This course helps students develop a critical understanding of agri-
cultural, environmental and related issues facing the United States
and the world while improving their writing skills. This is a second
writing course.

Day Time Location
Lecture M, W 12:40-1:35 p.m. AT 124 or
Lecture M, Th 3:00-3:55 p.m. AT 124 and
Lab T, F 12:40-1:35 p.m. AT 124 or
Lab W, F 3:00-3:55 p.m. AT 124

Oral Expression in Agriculture: 3130 (3 credits)
An introductory public speaking course that will analyze the com-
munication process and prepare students enrolled to write and
deliver speeches for various occasions and purposes.

Day Time Location
Lecture M, W, F 8:00-8:55 a.m. AT 124 or
Lecture M, W, F 8:00-8:55 a.m. SK 225 or
Lecture M, W, F 9:10-10:05 a.m. AT 124 or
Lecture M, W, F 1:50-2:45 p.m. AT 124

Agricultural, Environmental, &
Development Economics

Principles of Food and Resource Economics: 2001 (3 credits)
Microeconomic principles applied to allocation issues in the
production, distribution, and consumption of food and natural re-
source use.

Day Time Location
Lecture M, W, F 12:40-1:35 p.m. SK 100 or
Lecture M, W, F 4:10-5:05 p.m. SK 100

Managerial Records and Analysis: 2105 (3 credits)
Nature and need for business records, analysis and interpretation
of essential records from manager/owner viewpoint; their use in
small business practices.

Day Time Location
Lecture M, W, F 12:40-1:35 p.m. AT 082 or
Lecture M, W, F 3:00-3:55 p.m. SK 205 and
Lab T 8:00-8:55 a.m. AT 203 or
Lab T 10:20-11:15 a.m. AT 203 or
Lab T 11:30-12:25 p.m. AT 203 or
Lab T 12:40-1:35 p.m. AT 200

Animal Sciences

Introduction to Animal Sciences: 2200.01 (3 credits)
Introduction to animal agriculture; its purpose, terms, products, prob-
lems, and basic management principles.

Day Time Location
Lecture M, W, F 8:00-8:55 a.m. SK 100 or
Lecture M, W, F 3:00-3:55 p.m. SK 206

Introduction to Animal Sciences Laboratory: 2200.02T (1 credit)
Laboratory application of basic animal husbandry practices in the
various livestock and related industries.

Day Time Location
Lab T 8:00-10:05 a.m. SK 206 or
Lab T 10:20-12:25 p.m. SK 206 or
Lab T 12:40-2:45 p.m. SK 206 or

Animal Anatomy and Physiology: 3140T (4 credits)
An introductory study of the structure and functions of the various
organ systems of domestic animals.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. SK 100 and
Lab W 3:00-3:55 p.m. SK 215 or
Lab Th 5:20-6:15 p.m. SK 215

Livestock Selection and Evaluation: 3200T (2 credits)
Principles of live animal selection and carcass evaluation of live-
stock.

Day Time Location
Recitation M 3:00-4:50 p.m. SK 212 and
Lab W, F 3:00-5:05 p.m. SK 212

Introduction to Beef and Small Ruminant Production: 2202T
(3 credits)
Overview of beef cattle, sheep, goat, and other small ruminant
species industries with regard to production and marketing; focus
on ruminant livestock needs and the opportunities involved in their
production.

Day Time Location
Lecture M, W 11:30-12:25 p.m. SK 100 and
Recitation F 11:30-12:25 p.m. SK 100 and
Lab T 9:10-11:15 a.m. AF 100 or
Lab T 12:40-2:45 p.m. AF 100 or
Lab T 3:00-5:05 p.m. AF 100

Food Animal Resource Management I – Small Ruminants:
2510.04T (1 credit)
Supervised practical experience in small ruminant production and
management at the Grace Drake Learning Laboratory with emphasis
on developing and improving small ruminant production and man-
agement skills and competency.

Day Time Location
Recitation Th 8:00-8:55 a.m. SK 215 and
Lab Th 9:10-11:15 a.m. AF 100

Food Animal Resource Management II – Small Ruminants:
2582.04T (1 credit)
Supervised practical experience in small ruminant production and
management at the Grace Drake Learning Laboratory with emphasis on
developing and improving leadership characteristics, small ruminant
production and management skills and competency.

Day Time Location
Recitation Th 8:00-8:55 a.m. SK 215 and
Lab Th 9:10-11:15 a.m. AF 100

Food Animal Resource Management I – Beef: 2510.02T
(1 credit)
Supervised practical experience in beef production and manage-
ment at the Grace Drake Learning Laboratory with emphasis on
developing and improving beef production and management skills
and competency.

Day Time Location
Lecture Th 10:20-11:15 a.m. SK 100

Food Animal Resource Management II – Beef: 2582.02T
(1 credit)
Leadership experience in supervised laboratory experiences with
emphasis on developing competencies in personnel management,
beef enterprise health and nutrition, and farm management.

Day Time Location
Lecture Th 10:20-11:15 a.m. SK 100
Dairy Cattle Milking and Reproductive Management: 3167T (4 credits)
A study of recommended dairy cattle milking and reproductive management practices, based on the anatomy and physiology of the systems.
Day  Time  Location
Lecture M, W, F  1:50-2:45 p.m.  SK 212 and
Recitation F  9:10-10:05 a.m.  SK 212 and
Lab T  8:00-11:15 a.m.  SK 212

Dairy Cattle Evaluation and Herd Records: 3207T (2 credits)
Comparative evaluation of dairy cattle conformation and introduction to herd performance records; emphasis on breed characteristics, functional type, lifetime profitability, and record data collection, analysis, and use.
Day  Time  Location
Lecture T, Th  12:40-3:55 p.m.  SK 212

Dairy Cattle Facilities, Environment, and Equipment: 3407T (3 credits)
Design and management of dairy cattle facilities, environment, and associated equipment; emphasizing milking equipment and parlors, animal housing, environmental control, waste management, feeding systems, and utilities.
Day  Time  Location
Lecture M, W  11:30-12:25 p.m.  SK 231 and
Recitation Th  8:00-8:55 a.m.  SK 231 or
Recitation F  11:30-12:25 a.m.  SK 231 and
Lab Th  9:10-12:25 p.m.  SK 231

Introduction to Horse Science: 2201T (3 credits)
Fundamental survey of the development of domestic horses and breeds, terminology, behavior, uses, conformation, management and safe horse handling.
Day  Time  Location
Lecture M, W  1:50-2:45 p.m.  SK 201 and
Lab Th  8:00-10:05 a.m.  EQ 100 or
Lab Th  10:20-12:25 p.m.  EQ 100

Horsemanship & Equitation: 2801T (3 credits)
Intermediate course in equitation with emphasis on continued development of balanced seat riding skills that incorporate natural horsemanship concepts into mounted work.
Day  Time  Location
Lecture T  1:50-2:45 p.m.  SK 201 and
Recitation Th  12:40-2:30 p.m.  EQ 100 and
Lab M, T, W, F  9:00-9:55 a.m.  EQ 100 or
Lab M, T, W, F  10:00-10:55 a.m.  EQ 100 or
Lab M, T, W, F  12:40-1:35 p.m.  EQ 100

Equine Facility Maintenance and Management: 3101T (2 credits)
Principles of equine facility design and maintenance with particular emphasis on the application of skills related to managing an equine facility.
Day  Time  Location
Lecture M  11:30-1:35 p.m.  SK 212 and
Lecture W  11:30-12:25 p.m.  SK 212 and
Recitation W  12:40-1:35 p.m.  SK 212 and
Lab F  11:30-1:35 p.m.  EQ 100

Schooling and Training the Riding Horse: 2811T (3 credits)
Applied techniques of schooling and training riders with emphasis on producing supple, willing and knowledgeable mounts.
Day  Time  Location
Lecture T  8:00-8:55 a.m.  SK 201 and
Lecture Th  10:20-11:15 a.m.  SK 201 and
Lab M, W, F  7:30-8:25 a.m.  EQ 100

Swine Production & Management I: 2603T (3 credits)
A study of the basic principles of production and management for contemporary commercial swine production enterprises.
Day  Time  Location
Lecture M, W  1:50-2:45 p.m.  SK 231 and
Recitation F  1:50-2:45 p.m.  SK 231 and
Lab Th  1:50-3:55 p.m.  SK 215

Food Animal Resource Management I – Swine: 2510.03T (1 credit)
Supervised laboratory experience in swine production at the Ohio State ATI swine farm with emphasis on developing and improving competency in swine production skills.
Day  Time  Location
Lecture Th  12:40-1:35 p.m.  SK 215

Food Animal Resource Management II – Swine: 2582.03T (1 credit)
Supervised practical experience in swine production and management at the Grace Drake Learning Laboratory with emphasis on developing and improving leadership characteristics, swine production and management skills and competency.
Day  Time  Location
Recitation Th  12:40-1:35 p.m.  SK 215
Lab Th  TBA  TBA

Bioenergy & Biological Waste Management

Introduction to Bioenergy and Biological Waste Management: 2010T (3 credits)
An Introduction to conventional and alternative energy (with emphasis on bioenergy and bioproducts), including conservation, economic and environmental issues. Water Consumption, scarcity, pollution, and water resource recovery will be emphasized. Fermentation technology and biochemistry of microbial breakdown of carbohydrates, proteins, and lipids will be introduced.
Day  Time  Location
Lecture M, T, Th  1:50-2:45 p.m.  AT 129

Bioenergy and Wastewater Technologies: 2020T (4 credits)
A detailed description of technologies employed in bioenergy-generating processes and wastewater treatment. Scientific and technical backgrounds of fermentation technology will be introduced. A critical evaluation of the environmental impacts of organic wastes. Bioreactor design; management of industrial, agricultural, and municipal solid wastes and wastewater will be covered.
Day  Time  Location
Lecture M, T, W  4:10-5:05 p.m.  AT 129 and
Lab W  9:10-12:25 p.m.  AT 159

Feedstock Evaluation and Analysis: 2030T (3 credits)
An Introduction to feedstocks used in the bioenergy/bio-products industry, including analytical tools for feedstock evaluation and handling, and logistical and economic aspects of industrial biomass feedstocks.
Day  Time  Location
Lecture M, T, W  1:50-2:45 p.m.  AT 129 and
Lab M  11:30-1:35 p.m.  AT 100

Bioenergy and Wastewater Technologies: 2020T (4 credits)
A detailed description of technologies employed in bioenergy-generating processes and wastewater treatment. Scientific and technical backgrounds of fermentation technology will be introduced. A critical evaluation of the environmental impacts of organic wastes. Bioreactor design; management of industrial, agricultural, and municipal solid wastes and wastewater will be covered.
Day  Time  Location
Lecture M, T, W  4:10-5:05 p.m.  AT 129 and
Lab W  9:10-12:25 p.m.  AT 159

Feedstock Evaluation and Analysis: 2030T (3 credits)
An Introduction to feedstocks used in the bioenergy/bio-products industry, including analytical tools for feedstock evaluation and handling, and logistical and economic aspects of industrial biomass feedstocks.
Day  Time  Location
Lecture M, T, W  1:50-2:45 p.m.  AT 129 and
Lab M  11:30-1:35 p.m.  AT 100
Biology

Biological Sciences: Energy Transfer and Development: 1113 (4 credits)
Exploration of biology and biological principles; evolution and the origin of life, cellular structure and function, bioenergetics, and genetics.

Day Time Location
Lecture M, W, F 8:00-8:55 a.m. AT 082 or
Lab M 5:20-8:35 p.m. AT 181 or
Lab T 11:30-2:45 p.m. AT 181 or
Lab Th 12:40-3:55 p.m. AT 181

General Biology: 1200T (4 credits)
A basic course intended to provide a biological foundation, with supporting chemistry concepts, emphasizing principles and applications of biology.

Day Time Location
Lecture M, W, F 3:00-3:55 p.m. AT 186 and
Lab T 4:10-6:15 p.m. AT 187 or
Lab T 6:30-8:35 p.m. AT 187

General Botany with Applications: 1250T (4 credits)
Introduction to the fundamental structures and processes of plants, including plant anatomy, physiology, morphology, reproduction, and genetics.

Day Time Location
Lecture M, W, F 4:10-5:05 p.m. SK101 and
Lab F 8:00-10:05 a.m. AT 181 or
Lab F 10:20-12:25 p.m. AT 181

Biotechnology

General and Applied Entomology: 2218T (3 credits)
Classification, identification, life cycles, external/internal structures, and functions of insects; common insect pests and their damage; methods of control and their applications.

Day Time Location
Lecture M, W 11:30-12:25 p.m. AT 086 and
Lab Th 10:20-1:35 p.m. AT 187 or
Lab Th 4:10-7:25 p.m. AT 187

Pesticides and their Use: 2219T (3 credits)
A study of the classification of pesticides and their mode of action, physiological effects, persistence in the environment, benefits, hazards, use, performance and regulation.

Day Time Location
Lecture M, W, F 12:40-1:35 p.m. AT 086

Business Technology

Software Applications: 1202T (1 credit)
An overview of basic computer skills and study of the features and capabilities of presentations, word processing, spreadsheet and database software as decision management aids.

Day Time Location
Lab T 1:50-3:55 p.m. AT 200 or
Lab T 4:10-6:15 p.m. AT 200 or
Lab Th 3:00-5:05 p.m. AT 200 or
Lab Th TBA TBA

Chemistry

Introduction to General Chemistry: 1100T (3 credits)
Studies the basic concepts of atomic structure, bonding theory, molecular structure, chemical reactions, solutions, equilibrium, and acid-base chemistry.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. SK 205
Elementary Chemistry: 1110 (5 credits)
Introductory chemistry for non-science majors, including dimensional analysis, atomic structure, bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acids and bases, along with topics in organic and biological chemistry.

Day Time Location
Lecture M, T, W, F 3:00-3:55 p.m. SK 100 and
Lab T 8:00-11:15 a.m. AT 186 or
Lab T 11:30-2:45 p.m. AT 186 or
Lab T 4:10-7:25 p.m. AT 186 or
Lab Th 8:00-11:15 a.m. AT 186

General Chemistry I: 1210 (5 credits)
First course for science majors, covering dimensional analysis, atomic structure, the mole, stoichiometry, chemical reactions, thermochemistry, electron configuration, bonding, molecular structure, gases, liquids, and solids.

Day Time Location
Lecture M, W, F 3:00-3:55 p.m. AT 082 and
Recitation T 3:00-3:55 p.m. AT 082 and
Lab W 5:20-8:35 p.m. AT 180 or
Lab Th 12:40-3:55 p.m. AT 180 or
Lab Th 5:20-8:35 p.m. AT 180

Organic Chemistry I: 2510 (4 credits)
Introduction to structure, nomenclature, physical properties, preparation and reactions of alkanes, alkenes, alkynes, alcohols, ethers, epoxides, aldehydes and ketones. Other topics include stereochemistry, acids, bases, and reaction mechanisms.

Day Time Location
Lecture M, W, F 10:20-11:15 a.m. AT 124
Recitation T 10:20-11:15 a.m. AT 124

Communication
Technical and Business Writing: 2115T (3 credits)
Principles of technical and business communication in the global setting with emphasis on practical applications for professional and business environments involving correct usage and documentation in writing, reading, speaking and listening.

Day Time Location
Lecture M, W, F 11:30-12:25 p.m. AT 124

Community Leadership
Foundations of Personal and Professional Leadership: 3530T (3 credits)
Leadership theories, principles, and concepts. Research-based theories, methods of social scientific inquiry, individual strengths, personal leadership philosophy and vision, concepts of diversity and ethics, and professional development plan.

Day Time Location
Lecture M, W 9:10-10:05 a.m. SK 215
Lab T 9:10-11:15 a.m. AT 081 or
Lab T 12:40-2:45 p.m. AT 081 or
Lab T 3:00-5:05 p.m. AT 081

Data Analysis in the Applied Sciences: 3537 (3 credits)
The purpose of this course is to develop an overview and basic understanding of descriptive and inferential statistics.

Day Time Location
Lecture M, W 10:20-11:40 a.m. SK 205 and
Lab T 9:10-11:15 a.m. AT 200 or
Lab F 10:20-12:25 p.m. AT 200

Comparative Studies
Introduction to World Literature: 2301 (3 credits)
Analysis of oral and written literatures of diverse cultures and historical periods.

Day Time Location
Lecture T, Th 5:20-6:40 p.m. SK 100 or
Lecture T, Th 7:40-9:00 p.m. SK 100

Crops & Soil Technology
Introduction to Sustainable Agriculture: 2200T (2 credits)
A study of the farm system as a whole and sustainable management methods for healthy soil, crop, and livestock.

Day Time Location
Lecture M 9:10-10:05 a.m. SK 215 and
Lab Th 8:00-11:15 a.m. SK 232

Introduction to Soil Science: 2300T (3 credits)
An introduction to soil physical, chemical, and biological properties related to plant systems, environmental quality, and construction.

Day Time Location
Lecture M, W, F 12:40-1:35 p.m. SK 206

Introduction to Soil Science Laboratory: 2301T (1 credit)
Laboratory analysis of soil physical, chemical, and biological properties related to plant systems, environmental quality, and construction.

Day Time Location
Lab T 8:00-11:15 a.m. AT 162 or
Lab T 12:40-3:55 p.m. AT 162 or
Lab Th 8:00-11:15 a.m. AT 162

Manure Management: 2228T (3 credits)
A study of the biological, chemical, and physical components of animal manures; methods for safe handling and storage; and land application.

Day Time Location
Lecture M, W 10:20-11:15 a.m. SK 100 and
Lab T 9:10-11:15 a.m. AT 081 or
Lab T 12:40-2:45 p.m. AT 081 or
Lab T 3:00-5:05 p.m. AT 081

Sustainable Agriculture Methods: 2210T (1 credit)
Applications of sustainable agricultural systems including cropping, animal operations, and other business enterprises.

Day Time Location
Lab Th 12:40-3:55 p.m. SK 232

Soil Fertility and Fertilizers: 2580T (3 credits)
A study of plant nutrient cycles, fertilizer recommendations, application of ag-lime, fertilizers, animal manure, and municipal biosolids.

Day Time Location
Lecture M, W 4:10-5:05 p.m. SK 201 (Hybrid)
Lab F 10:20-12:25 p.m. LD 100A

Principles of Weed Control: 2422T (3 credits)
An introduction to biological, chemical, and mechanical methods for controlling weeds in agronomic cropping systems.

Day Time Location
Lecture M, W 1:50-2:45 p.m. SK 030 (Hybrid) and
Lab T 1:50-3:55 p.m. SK 030 or
Lab Th 1:50-3:55 p.m. SK 030
Engineering Technology

Engineering Technology Fundamentals: 2312T (3 credits)
An introduction to basic scientific and engineering concepts commonly encountered by engineering technicians emphasizing calculations, measurements, and instrumentation.

Day | Time     | Location
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Lecture M, F | 8:00-8:55 a.m. | SK 137 and
Lab T      | 8:00-10:05 a.m. | SK 134

Agricultural Equipment Operation and Maintenance: 2015T (2 credits)
A study of tractors and other agricultural equipment with emphasis on operation, maintenance and adjustment for safe, efficient operation.

Day | Time     | Location
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Lecture W    | 6:30-7:25 p.m. | LD 100A and
Recitation M | 4:10-5:05 p.m. | LD 100 or
Lab W        | 4:10-6:15 p.m. | LD 100 or

Crop Equipment: 2016T (3 credits)
Principles and applications of safely operating, adjusting, and maintaining agricultural equipment and storing crops.

Day | Time     | Location
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Lecture T, Th | 8:00-8:55 a.m. | LD 100A and
Recitation T | 9:10-11:55 a.m. | LD 100A and
Lab Th        | 9:10-12:25 a.m. | LD 100

Site Development and Surveying: 2440T (4 credits)
Principles of hydrology, soil mechanics, and surveying as applied to residential and commercial construction.

Day | Time     | Location
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Lecture M    | 7:40-9:00 p.m. | SK 101 and
Lecture W    | 5:20-6:40 p.m. | SK 101 and
Lab M        | 4:10-7:25 p.m. | SK 136

Construction Drawings & Basic Estimating: 2110T (2 credits)
Reading and interpretation of various types of construction drawings, as well as an introduction to material quantity calculations and estimate development.

Day | Time     | Location
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Recitation W | 7:40-8:35 p.m. | SK 137 and
Lab M        | 7:40-9:45 p.m. | SK 137

Building Science: Methods & Materials: 2120T (4 credits)
A study of materials science and installation methods used in residential and commercial construction. Emphasizes structural and architectural systems, moisture managed designs, air sealing, and thermal design for energy efficient structures.

Day | Time     | Location
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Lecture M, W | 5:20-6:40 p.m. | SK 137 and
Recitation T | 4:10-5:05 p.m. | SK 137 and
Lab W        | 1:50-5:05 p.m. | SK 137 and
Lab Th        | 8:00-11:15 a.m. | SK 137 or
Lab Th        | 11:30-2:35 p.m. | SK 137

Mobile Heating and Air Conditioning: 2332T (1 credit)
Principles, operation, maintenance, service, and repair of mobile heating and air conditioning components and systems.

Day | Time     | Location
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Lecture Th   | 7:40-9:45 p.m. | SK 142

Analog and Digital Electronics: 2325T (3 credits)
An introduction to analog and digital electronics with emphasis on industry applications.

Day | Time     | Location
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Lecture T    | 5:20-7:10 p.m. | SK 134 and
Lab Th        | 5:20-7:25 p.m. | SK 134

Vehicle Electrical and Electronic Systems: 2334T (2 credits)
A study of electrical and electronic systems utilized in off-road machinery.

Day | Time     | Location
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Lecture W    | 8:00-8:55 a.m. | SK 134 and
Lab W        | 10:20-12:25 p.m. | SK 134

Fundamentals of Fluid Power and Components: 2214T (4 credits)
An introduction to the fluid power industry and the principles of fluid power system operation. Characteristics of operation and performance are investigated for pumps, motors, and valves.

Day | Time     | Location
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Lecture W    | 1:50-3:40 p.m. | SK 136 and
Lecture Th   | 8:00-8:55 a.m. | SK 136 and
Lab W        | 4:10-6:15 p.m. | SK 140 or
Lab Th        | 9:10-11:40 a.m. | SK 140

Electrohydraulics and System Design: 2238T (3 credits)
A study of the interface and design applications of electricity and electronics with fluid power components integrated into a complete system, including performance characteristics and energy efficiency.

Day | Time     | Location
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Lecture M    | 9:10-11:00 a.m. | SK 134 and
Lab T        | 9:10-11:15 a.m. | SK 140

Introduction to Power Equipment: 2314T (3 credits)
An introduction to the off-road machinery industries, their past and future, and the application of engineering principles to the associated equipment.

Day | Time     | Location
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Lecture T, Th | 12:40-1:35 p.m. | SK 134 and
Lab T        | 1:50-5:05 p.m. | SK 142

Diesel Engine Systems: 2338T (3 credits)
A study of the principles, operation, and service of diesel engine systems with emphasis on fuel systems and engine controls.

Day | Time     | Location
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Lecture W    | 5:20-7:10 p.m. | SK 136 and
Lab W        | 7:40-10:55 p.m. | SK 136

Methods of Power Transmission: 2336T (2 credits)
Comparison and evaluation of power transmission by mechanical, electrical, and fluidic means.

Day | Time     | Location
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Lecture M    | 5:20-6:15 p.m. | SK 101 and
Lab M        | 6:30-8:35 p.m. | SK 142

Welding Technology: 2240T (3 credits)
A study of basic welding including materials, equipment, and techniques.

Day | Time     | Location
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Lecture T    | 5:20-6:15 p.m. | SK 101 and
Lab T        | 6:30-8:35 p.m. | SK 150 and
Lab Th        | 5:20-7:25 p.m. | SK 150 or
Lab T        | 8:50-10:55 p.m. | SK 150 and
Lab Th        | 7:40-9:45 p.m. | SK 150
### English

**Writing & Reading: 1109**  (4 credits)
Provides intensive practice in integrating academic reading and writing.

<table>
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<tr>
<th>Day</th>
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<tbody>
<tr>
<td>Lecture M, W</td>
<td>9:10-10:05 a.m.</td>
<td>AT 200 or</td>
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<tr>
<td>Lecture M, W</td>
<td>10:20-11:15 a.m.</td>
<td>AT 200 or</td>
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<tr>
<td>Lecture M, W</td>
<td>5:20-6:15 p.m.</td>
<td>AT 128N or</td>
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<tr>
<td>Lecture M, W</td>
<td>6:30-7:25 p.m.</td>
<td>AT 128Nor</td>
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<tr>
<td>Lecture M, W</td>
<td>7:40-8:35 p.m.</td>
<td>AT 200 or</td>
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<td>Lecture M, W</td>
<td>8:50-9:45 p.m.</td>
<td>AT 200 or</td>
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</table>

**First-Year English Composition: 1110.01**  (3 credits)
Practice in the fundamentals of expository writing, as illustrated in the student's own writing & in the essays of professional writers.

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<tr>
<th>Day</th>
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<th>Location</th>
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<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>9:10-10:05 a.m.</td>
<td>SK 201 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>9:10-10:05 a.m.</td>
<td>AT 081 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 212 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 137 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>AT 081 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 201 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>AT 081or</td>
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<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>SK 201 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>12:40-1:35 p.m.</td>
<td>SK 137 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>1:50-2:45 p.m.</td>
<td>SK 205 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>1:50-2:45 p.m.</td>
<td>AT 081 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>4:10-5:05 p.m.</td>
<td>AT 081</td>
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</table>

**First-Year English Composition: 1110.03**  (3 credits)
Intensive practice in fundamentals of expository writing illustrated in the student’s own writing & in the essays of professional writers.

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<tr>
<th>Day</th>
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<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>9:10-10:05 a.m.</td>
<td>SK 201 or</td>
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<tr>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 201 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>AT 081 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>12:40-1:35 p.m.</td>
<td>SK 137 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>1:50-2:45 p.m.</td>
<td>SK 205 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>4:10-5:05 p.m.</td>
<td>AT 081</td>
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</tbody>
</table>

### Environment & Natural Resource

**Introduction to Environmental Science: 2100**  (3 credits)
Introduction to environmental science, the ecological foundation of introduction to environmental science, the ecological foundation of environmental systems, the ecological impacts of environmental degradation by humans, and strategies for sustainable management of environment and natural resources.

<table>
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<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>SK 105</td>
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</table>

**Society and Natural Resources: 2300**  (3 credits)
Introduction to interactions between humans, natural resources and ecosystems from a social science perspective.

<table>
<thead>
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<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>4:10-5:05 p.m.</td>
<td>AT 086</td>
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</tbody>
</table>

### History

**American Civilization since 1877: 1152**  (3 credits)
The political, constitutional, social and economic development of the United States from the end of Reconstruction to the present.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Lecture T, Th</td>
<td>5:20-6:40 p.m.</td>
<td>SK 206 or</td>
</tr>
<tr>
<td>Lecture T, Th</td>
<td>7:40-9:00 p.m.</td>
<td>SK 206</td>
</tr>
</tbody>
</table>

### Horticultural Technology

**Commercial Floral Design: 2600T**  (4 credits)
A basic course introducing the elements and principles of floral design as they relate to the construction of saleable flower arrangements and corsages.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Lecture T, Th</td>
<td>8:00-8:55 a.m.</td>
<td>AT 285 and</td>
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<tr>
<td>Lab T, Th</td>
<td>9:10-12:25 p.m.</td>
<td>AT 285</td>
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</tbody>
</table>

**Flowers for Celebrations: 2640T**  (4 credits)
A specialized course dealing with consulting, planning, organizing and creating floral designs and decor for wedding ceremonies and receptions, parties, and celebrations of life.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Lecture M, W</td>
<td>1:50-2:45 p.m.</td>
<td>AT 285 and</td>
</tr>
<tr>
<td>Lab W, F</td>
<td>9:10-12:25 p.m.</td>
<td>AT 285</td>
</tr>
</tbody>
</table>

**Greenhouse Environment Control: 2500T**  (4 credits)
Principles and practices of sustainable greenhouse operation and management. Topics include glazings, frames, heating, cooling, energy conservation, nutrition, irrigation, light, plant growth and operations management.

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<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Lecture W</td>
<td>1:50-3:10 p.m.</td>
<td>AG 115 and</td>
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<tr>
<td>Lecture Th</td>
<td>10:20-11:40 a.m.</td>
<td>AG 115 and</td>
</tr>
<tr>
<td>Lab Th</td>
<td>12:40-3:35 p.m.</td>
<td>AG 115</td>
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</tbody>
</table>

**Greenhouse Perennial Production: 2520T**  (3 credits)
Principles and practices of greenhouse perennial plant production, including propagation, vernalization, photoperiodic treatments, production techniques, integrated pest and plant health management, and post-harvest marketing.

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<tr>
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<th>Location</th>
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<tbody>
<tr>
<td>Lecture M, Th</td>
<td>10:20-11:15 a.m.</td>
<td>AG 115 and</td>
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<tr>
<td>Lab W</td>
<td>8:00-11:15 a.m.</td>
<td>AG 115</td>
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</table>

**Components of Greenhouse Technologies: 3550T**  (3 credits)
A study of selected components of modern greenhouse technology, including electric motors, automated material handling and watering controls, pesticide application and supplemental lighting.

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<th>Day</th>
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<th>Location</th>
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<tbody>
<tr>
<td>Lecture M, Th</td>
<td>9:10-10:05 a.m.</td>
<td>AT 286 and</td>
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<tr>
<td>Lab T</td>
<td>1:50-5:05 p.m.</td>
<td>AG 115</td>
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</table>

**Landscape Construction: 2320T**  (3 credits)
Techniques for building, pricing, bidding and installing various landscape plantings, features and structures including (but not limited to): pavers, retaining walls and wooden structures.

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<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Lecture Th</td>
<td>8:00-9:50 a.m.</td>
<td>AT 280 and</td>
</tr>
<tr>
<td>Lab Th</td>
<td>11:30-2:45 p.m.</td>
<td>CL 125</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>2880T</td>
<td>Principles of Weed Science</td>
<td>3</td>
<td>A study of weed classification, ecology, plant competition, herbicide formulation, properties and uses of herbicides and weed management in horticultural crops.</td>
<td>Lecture M, W</td>
<td>9:10-10:05 a.m.</td>
<td>SK 232 and</td>
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<td></td>
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<td>Lab F</td>
<td>9:10-11:15 a.m.</td>
<td>SK 232</td>
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<tr>
<td>2110T</td>
<td>Plant Materials I: 2110T</td>
<td>3</td>
<td>Introductory course in plant identification including deciduous trees and shrubs common to the midwest covering: identification, morphology, classification, nomenclature and adaptability.</td>
<td>Lecture M</td>
<td>9:10-10:05 a.m.</td>
<td>AG 115</td>
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<td>Lab T, Th</td>
<td>12:40-2:45 p.m.</td>
<td>AT 286 or</td>
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<td>Lab W</td>
<td>8:00-10:05 a.m.</td>
<td>AT 286</td>
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<tr>
<td>2120T</td>
<td>Plant Materials II: 2120T</td>
<td>3</td>
<td>Introductory course in plant identification including evergreen trees, shrubs, vines and herbaceous plants common to the midwest covering: identification, morphology, classification, nomenclature and adaptability.</td>
<td>Lecture F</td>
<td>11:30-12:25 p.m.</td>
<td>AT 286 and</td>
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<td>Lecture M, W</td>
<td>10:20-12:25 p.m.</td>
<td>AT 286</td>
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<td>Lab Th</td>
<td>1:50-5:05 p.m.</td>
<td>AT 203</td>
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<td>Lab W</td>
<td>8:00-11:15 a.m.</td>
<td>GC 100</td>
</tr>
<tr>
<td>2225T</td>
<td>Turf Equipment, Facility and Mechanical Systems Operation and Management: 2225T</td>
<td>3</td>
<td>Principles and practices of turf facilities organization and management, equipment maintenance, operation, safety and fleet management.</td>
<td>Lecture T</td>
<td>12:40-2:30 p.m.</td>
<td>SK 232 and</td>
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<td>Lab W</td>
<td>8:00-11:15 a.m.</td>
<td>GC 100</td>
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<tr>
<td>2230T</td>
<td>Fundamentals of Turfgrass Science and Management: 2230T</td>
<td>3</td>
<td>Specialized course in golf course management including the organization, design, construction, equipment, personnel, finances, and maintenance of the golf course.</td>
<td>Lecture T, Th</td>
<td>4:10-5:05 p.m.</td>
<td>SK 232 and</td>
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<td>Lab T</td>
<td>9:10-11:15 a.m.</td>
<td>SK 232</td>
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<tr>
<td>2270T</td>
<td>Golf Course Organization and Management: 2270T</td>
<td>3</td>
<td>Specialized course in golf course management including the organization, design, construction, equipment, personnel, finances, and maintenance of the golf course.</td>
<td>Lecture M, F</td>
<td>11:30-12:25 p.m.</td>
<td>SK 232 and</td>
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<td>Lab Th</td>
<td>9:10-12:25 p.m.</td>
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<tr>
<td>2260T</td>
<td>Sports Turf Operations Organization and Management: 2260T</td>
<td>3</td>
<td>Specialized course in sports turf management including the organization, design, construction, equipment, field surface quality, safety, personnel, finances, renovation and maintenance of a sports turf facility.</td>
<td>Lecture M, F</td>
<td>11:30-12:25 p.m.</td>
<td>TBA</td>
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<td>Lab Th</td>
<td>9:10-12:25 p.m.</td>
<td>TBA</td>
</tr>
<tr>
<td>3488.02T</td>
<td>PGM Player Development: 3488.02T</td>
<td>1</td>
<td>Focus on assisting students who have not passed the PGA of America’s Playing Ability Test. Encompasses golf skills evaluation, mental approach, and development of a corrective action plan and re-evaluation of skills progress.</td>
<td>Lecture M</td>
<td>1:50-5:05 p.m.</td>
<td>AT 286</td>
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<td>Humanities as a Window on Cultural Pluralism: Global Arts: 1190.02T</td>
<td>3</td>
<td>An introduction to specific visual arts and cultural contexts of four societies: Japan, Ghana, France, USA.</td>
<td>Lecture T, Th</td>
<td>3:00-4:20 p.m.</td>
<td>AT 152</td>
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<tr>
<td></td>
<td>Basic Mathematics I: 1030T</td>
<td>3</td>
<td>A foundation course in arithmetic and beginning algebra skills. Emphasis is on obtaining competencies necessary to be successful in the Basic Mathematics II course.</td>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 105</td>
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<tr>
<td></td>
<td>Basic Mathematics II: 1040T</td>
<td>3</td>
<td>A review of algebra and geometry fundamentals with emphasis on measurement, percent application, two and three-dimensional geometry application, and direct and inverse proportion.</td>
<td>Lecture M, W, F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 101</td>
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<tr>
<td></td>
<td>Business Mathematics: 1141T</td>
<td>3</td>
<td>The mathematics of business and finance: including proportion, the income statement, simple interest, compound interest, annuities, amortization and sinking funds.</td>
<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>SK 101 or</td>
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<td></td>
<td>Technical Mathematics: 1145T</td>
<td>3</td>
<td>A study of technical applications and computational methods involving variation, systems of equations, quadratic equations, graphical solutions to equations, logarithmic and exponential equations, and trigonometry.</td>
<td>Lecture M, W, F</td>
<td>12:40-1:35 p.m.</td>
<td>SK 101</td>
</tr>
<tr>
<td></td>
<td>Precalculus Mathematics I: 1050</td>
<td>5</td>
<td>Fractions and decimals, basic algebra, graphing lines, factoring, systems of equations.</td>
<td>Lecture M-F</td>
<td>10:20-11:15 a.m.</td>
<td>SK 225 or</td>
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<td>Lecture M-F</td>
<td>4:10-5:05 p.m.</td>
<td>SK 225</td>
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</tbody>
</table>
Precollege Mathematics II: 1075 (4 credits)
Algebraic, rational, and radical expressions; functions and graphs; quadratic equations; absolute value; inequalities; and applications.

Day Time Location
Lecture M, T, W, F 9:10-10:05 a.m. SK 225 or
Lecture M, T, W, F 9:10-10:05 a.m. AT 086 or
Lecture M, T, W, F 12:40-1:35 p.m. SK 225 or
Lecture M, W, Th, F 4:10-5:05 p.m. SK 205

College Algebra: 1148 (4 credits)
Functions: polynomial, rational, radical, exponential, and logarithmic. Introduction to right-angle trigonometry. Applications.

Day Time Location
Lecture M, T, W, F 12:40-1:35 p.m. SK 105 (Hybrid) or
Lecture M, W, Th, F 1:50-2:45 p.m. SK 105 or
Lecture M, W, Th, F 4:10-5:05 p.m. SK 105

Trigonometry: 1149 (3 credits)
Trigonometric functions and their properties. Vectors, polar coordinates and complex numbers.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. SK 105

Precalculus: 1150 (5 credits)
Functions: polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric. Applications.

Day Time Location
Lecture M-F 8:00-8:55 a.m. SK 105

Calculus for Business: 1131 (5 credits)
Survey of calculus of one and several variables; applications to business.

Day Time Location
Lecture M-F 11:30-12:25 p.m. SK 225

Meat Science
Bar-B-Que Science: 2010 (2 credits)
Investigating methods to prepare various meat products. Students will gain experience in matching proper cooking methods with different muscles to produce wholesome and palatable products. Students will be introduced to product sensory techniques.

Day Time Location
Lecture Th 5:20-7:10 p.m. SK 231 and Lab T 5:20-9:05 p.m. SK 231
August 21 – October 9

Music
Music Cultures of the World: 2250 (3 credits)
A survey of musical cultures outside the Western European tradition of the fine arts.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. AT 152 or
Lecture M, W, F 9:10-10:05 a.m. SK 206 or
Lecture M, W, F 3:00-3:55 p.m. AT 152

Plant Pathology
General Plant Pathology Lecture: 3001 (3 credits)
An introduction to plant diseases caused by fungi, bacteria, viruses, nematodes and parasitic higher plants.

Day Time Location
Lecture M, W, F 10:20-11:15 a.m. FA 121 and Lab T, Th 8:00-9:20 a.m. SH 213

Psychology
Introduction to Psychology: 1100 (3 credits)
Application of the scientific method to the empirical study of behavior with emphasis on individual and cultural differences.

Day Time Location
Lecture M, W, Th, F 1:50-2:45 p.m. SK 100

Religious Studies
Introduction to Comparative Religion: 2370 (3 credits)
Introduction to the academic study of religion through comparison among major traditions (Judaism, Christianity, Islam, Hinduism, Buddhism, etc.) and smaller communities.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. AT 152 or
Lecture M, W, F 9:10-10:05 a.m. SK 206 or
Lecture M, W, F 3:00-3:55 p.m. AT 152

Rural Sociology
Introduction to Rural Sociology: 1500 (3 credits)
Principles of society, major social institutions, and social change; emphasizes social changes in rural life, rural organizations, population, and family living.

Day Time Location
Lecture M, W, F 8:00-8:55 a.m. AT 082 or
Lecture M, W, F 11:30-12:25 p.m. SK 206 or
Lecture M, W, F 1:50-2:45 p.m. SK 206

Social Sciences
Hispanic Culture and Language in the Workplace: 1181T (3 credits)
Develop an understanding of how various Latino cultures influence workplace issues in order to improve the working environment and learn a basic workplace Spanish vocabulary.

Day Time Location
Lecture T, Th 3:00-4:20 p.m. SK 101

Technical Physics
Technical Physics: 1150T (5 credits)
Principles and applications of forces, motion, energy, matter, heat, thermodynamics, electricity, mechanical waves, and electromagnetic radiation.

Day Time Location
Lecture M, W, Th, F 3:00-3:55 p.m. AT 149 and Lab Th 11:30-1:35 p.m. AT 149
The Ohio State University
Agricultural Technical Institute
1328 Dover Road
Wooster, OH 44691
(330) 287-1331
ati.osu.edu

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