Autumn Semester 2017

Schedule of Courses

Registration deadline:
Aug. 3, 2017
Payment deadline:
Aug. 15, 2017
Classes begin:
Aug. 22, 2017
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 25 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 Jan at 330-287-7511 or elliott.3@osu.edu.

Or plan to attend one of our open houses:
- Oct. 21, 2017
- Nov. 18, 2017
- Feb. 19, 2018
- March 3, 2018
- April 7, 2018

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 elliott.3@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 elliott.3@osu.edu.

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<tr>
<th>Credit</th>
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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 agricultural, environmental and related issues facing the United States and the world while improving their writing skills. This is a second writing course.

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

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### 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 resource use.

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#### 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.

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### Animal Sciences

#### Introduction to Animal Sciences: 2200T (3 credits)
Introduction to animal agriculture; its purpose, terms, products, problems, and basic management principles.

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#### Introduction to Animal Sciences Laboratory: 2300T (1 credit)
Laboratory application of basic animal husbandry practices in the various livestock and related industries.

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

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

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#### 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.

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#### 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 management skills and competency.

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#### 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.

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

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#### 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.

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Dairy Cattle Feeding Management: 3137T  (2 credits)
Principles of dairy cattle feeding management with emphasis on the critical evaluation and formulation of rations in current management situations.
Day    Time      Location
Lecture M, W  11:30-12:50 p.m.  SK 212
Lecture Th  12:40-3:55 p.m.  SK 231

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  11:30-12:25 p.m.  SK 212 and
Lab Th  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  1:50-2:45 p.m.  SK 231 and
Recitation Th  11:30-12:25 p.m.  SK 231 and
Recitation F  10:20-11:15 a.m.  SK 231 and
Lab F  11:30-2:45 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  12:40-2:45 p.m.  EQ 100 and
Lab M, T, W, F  9:10-9:55 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

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 149

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 T, Th  9:10-10:05 a.m.  AT 129 and
Lab M  9:10-12:25 p.m.  AT 149

Schooling and Training the Riding Horse: 2811T  (3 credits)
Applied techniques of schooling and training riding horses 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  7:30-8:30 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, F  1:50-2:45 p.m.  SK 215 and
Lab F  1:50-2:45 p.m.  SK 215 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
Lab Th  12:40-1:35 p.m.  SK 215
**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
  - Lecture M, W, F  1:50-2:45 p.m.  AT 082 and
  - Lab M  5:20-8:35 p.m.  AT 181 or
  - Lab T  11:30-2:45 p.m.  AT 181 or
  - Lab Th  9:10-12:25 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 082 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.  AT 082 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 on-line course covering the 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 TBA

**General Economics: 1151T**  *(3 credits)*
Study of macro and micro-economic principles applicable to business, agricultural and personal financial decision-making.

- **Day**  **Time**  **Location**
  - Lecture M, W  7:40-9:00 p.m.  AT 124

**Introduction to Project Management: 2240T** *(3 credits)*
An introduction to project management concepts and techniques focusing on how to initiate, plan, manage, control, and close a project.

- **Day**  **Time**  **Location**
  - Lecture M, W  10:20-11:15 a.m.  TBA and
  - Lab T  10:20-12:25 p.m.  TBA

**Personal Selling: 2232T**  *(3 credits)*
A study of the basic principles and concepts of personal selling with emphasis on practical application and personal interaction.

- **Day**  **Time**  **Location**
  - Lecture M, W, F  1:50-2:45 p.m.  AT 081 or
  - Lecture M, W, F  3:00-3:55 p.m.  AT 081

**Fundamentals of Marketing: 2231T** *(3 credits)*
An online course covering a survey of the field of marketing including functions, policies, problems, structure, strategies and opportunities.

- **Day**  **Time**  **Location**
  - Lecture TBA

**Small Business Management: 2241T**  *(3 credits)*
A general study of the field of small business focusing on policies, strategies, organization, operation, and problems associated with the operation of an entrepreneurial enterprise.

- **Day**  **Time**  **Location**
  - Lecture M, W  8:00-8:55 a.m.  AT 081 and
  - Lab Th  8:00-10:05 a.m.  AT 081

**Business Law: 2247T**  *(3 credits)*
A study of legal principles, contracts, negotiable instruments, leases, sales, product liability, and consumer protection.

- **Day**  **Time**  **Location**
  - Lecture W  7:40-8:35 p.m.  SK 201 and
  - Lecture Th  7:40-8:35 p.m.  SK 201

**Supervision and Human Resource Management: 2244T** *(3 credits)*
A study of supervision and human resource principles and practices that focus on recruitment, training, evaluating, and compensating employees for improved productivity.

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

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

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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.

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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.

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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.

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<td>10:20-11:15 a.m.</td>
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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.

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<td>Lab F</td>
<td>10:20-12:25 p.m.</td>
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Comparative Studies

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

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<td>Lecture M, W</td>
<td>5:20-6:40 p.m.</td>
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<td>Lecture M, W</td>
<td>7:40-9:00 p.m.</td>
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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.

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<td>Lecture Th</td>
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<td>Lab T</td>
<td>8:00-11:15 a.m.</td>
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Introduction to Soil Science: 2300T (3 credits)
An introduction to soil physical, chemical, and biological properties related to plant systems, environmental quality, and construction.

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<td>12:40-1:35 p.m.</td>
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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.

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<td>Lab T</td>
<td>8:00-11:15 a.m.</td>
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<td>Lab T</td>
<td>12:40-3:55 p.m.</td>
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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.

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<td>10:20-11:15 a.m.</td>
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<td>Lab T</td>
<td>12:40-2:45 p.m.</td>
<td>AT 082 or</td>
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<td>Lab T</td>
<td>3:00-5:05 p.m.</td>
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Sustainable Agriculture Methods: 2210T (1 credit)
Applications of sustainable agricultural systems including cropping, animal operations, and other business enterprises.

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<td>8:00-11:15 a.m.</td>
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Sustainable Cropping Systems and Marketing: 2201T (3 credits)
A study of cropping systems and marketing strategies related to sustainable agricultural enterprises.

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<td>Lab Th</td>
<td>9:10-11:15 a.m.</td>
<td>SK 232</td>
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Communication

Technical and Business Writing: 1115T (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.

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<td>11:30-12:25 p.m.</td>
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Community Leadership

Foundations of Personal and Professional Leadership: 3530 (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.

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<td>5:20-6:40 p.m.</td>
<td>AT 124</td>
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</table>
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. TBA and Lab F 10:20-12:25 p.m. AT 086

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 and Lab T 1:50-3:55 p.m. SK 030 or Lab Th 1:50-2:45 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
Lecture M, F 8:00-8:55 a.m. SK 137 and Lab M, W 4:10-6:15 p.m. SK 134 or Lab Th 8:00-10:05 a.m. SK 134

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

Day Time Location
Lecture T, Th 8:00-8:55 a.m. SK 136 and Lab T, Th 9:10-12:25 p.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
Lecture M 7:40-9:00 p.m. SK 101 and Lecture W 5:20-6:40 p.m. SK 101 and Lab M 1:50-3:55 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
Lab W 7:40-8:35 p.m. SK 137 and Lab M, W 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
Lecture M, W 5:20-6:40 p.m. SK 137 and Recitation T 4:10-5:05 p.m. SK 137 and Lab Th 8:00-11:15 a.m. SK 137 or Lab Th 11:30-2:45 p.m. SK 137

Building Science: Electrical and Lighting Systems: 2150T (5 credits)
Principles, equipment, and applications of building electrical and lighting systems with emphasis on energy and resource conservation and sustainability.

Day Time Location
Lecture T, Th 6:30-7:25 p.m. SK 137 and Lab Th 4:10-6:15 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
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
Lecture Th 5:20-7:25 p.m. SK 101 and Lab T 7:40-9:45 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
Lecture T 12:40-1:35 p.m. SK 134 and Lab T 1:50-3:55 p.m. SK 134

Basic Pneumatic Systems: 2234T (2 credits)
Principles, operation, maintenance, service, and application of pneumatic components and systems used for control and automation on industrial equipment.

Day Time Location
Lecture T 12:40-1:35 p.m. SK 101 and Lab T 1:50-3:55 p.m. SK 140

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
Lecture M 12:40-1:35 p.m. SK 137 and Lecture W 1:50-3:55 p.m. SK 137 and Lab M 1:50-3:55 p.m. SK 140 or Lab W 4:10-6:15 p.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
Lecture M 9:10-11:15 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
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
Lecture W 5:20-7:25 p.m.   SK 134 and
Lab W     7:40-10:55 p.m.    SK 134

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

Day   Time                  Location
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
Lecture T 5:20-6:15 p.m.   SK 101 and
Lab T     6:30-8:35 p.m.    SK 150 or
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.

Day   Time                  Location
Lecture M, W 5:20-7:25 p.m. AT 128 or
Lecture T, Th 5:20-7:25 p.m. AT 128

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.

Day   Time                  Location
Lecture M, W, F 9:10-10:05 a.m. SK 205 or
Lecture M, W, F 10:20-11:15 a.m. AT 081 or
Lecture M, W, F 11:30-12:25 p.m. SK 205 or
Lecture M, W, F 1:50-2:45 p.m.   SK 205

First-Year English Composition: 1110.03 (3 credits)
Intensive practice in fundamentals of expository writing illustrated in the student's own writing and essays of professional writers; offered in a small class setting and linked with an individual tutoring component in its concurrent course, 1193.

Day   Time                  Location
Lecture M, W, F 10:20-11:15 a.m. AT 152 or
Lecture M, W, F 11:30-12:25 p.m. SK 225 or
Lecture M, W, F 12:40-1:35 p.m.   AT 124 or
Lecture M, W, F 1:50-2:45 p.m.   AT 152 or

Environment & Natural Resource

Introduction to Environmental Science: 2100 (3 credits)
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.

Day   Time                  Location
Lecture M, W, F 11:30-12:25 p.m. SK 105

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

Day   Time                  Location
Lecture M, W, F 4:10-5:05 p.m. AT 086

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.

Day   Time                  Location
Lecture M, W 7:40-9:00 p.m. SK 206 or
Lecture T, Th 8:00-9:20 p.m. SK 206 or

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.

Day   Time                  Location
Lecture T, Th 8:00-8:55 a.m. AT 285 and
Lab T, Th    9:10-12:25 p.m. AT 285

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.

Day   Time                  Location
Lecture M, W 1:50-2:45 p.m. AT 285 and
Lab W, F    9:10-12:25 p.m. AT 285

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.

Day   Time                  Location
Lecture W 1:50-3:10 p.m. AG 115 and
Lecture Th 10:20-11:40 a.m. AG 115 and
Lab Th      12:40-3:55 p.m.   AG 115
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.

Day | Time | Location
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Lecture M, W | 10:20-11:15 a.m. | AG 115 and AG 115
Lab T | 8:00-11:15 a.m. | AG 115

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.

Day | Time | Location
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Lecture M, W | 9:10-10:05 a.m. | TBA
Lab T | 1:50-5:05 p.m. | TBA

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.

Day | Time | Location
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Lecture Th | 8:00-10:05 a.m. | AT 280 and CL 125
Lab Th | 11:30-2:45 p.m. | TBA

Principles of Weed Science: 2880T (3 credits)
A study of weed classification, ecology, plant competition, herbicide formulation, properties and uses of herbicides and weed management in horticultural crops.

Day | Time | Location
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Lecture M, W | 9:10-10:05 a.m. | SK 232 and Lab F | 9:10-11:15 a.m. | SK 232
Lab Th | 12:40-2:45 p.m. | AT 286 or Lab W | 8:00-10:05 a.m. | AT 286

Plant Materials I: 2110T (3 credits)
Introductory course in plant identification including deciduous trees and shrubs common to the midwest covering: identification, morphology, classification, nomenclature and adaptability.

Day | Time | Location
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Lecture M | 9:10-10:05 a.m. | SK 201 and Lab Th | 1:50-5:05 p.m. | AT 286
Lab T | 12:40-2:45 p.m. | AT 286 or Lab W | 8:00-10:05 a.m. | AT 286

Plant Materials II: 2120T (3 credits)
Introductory course in plant identification including evergreen trees, shrubs, vines and herbaceous plants common to the midwest covering: identification, morphology, classification, nomenclature and adaptability.

Day | Time | Location
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Lecture F | 11:30-12:25 p.m. | AT 286 and Lab M, W | 10:20-12:25 p.m. | AT 286

Horticultural Photography: 2140T (1 credit)
Introductory digital photography and image editing course emphasizing composition, lighting, and exposure. Digital correction and editing with emphasis on horticultural marketing and portfolio development.

Day | Time | Location
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Lab Th | 1:50-5:05 p.m. | AT 203

Turf Equipment, Facility and Mechanical Systems Operation and Management: 2225T (3 credits)
Principles and practices of turf facilities organization and management, equipment maintenance, operation, safety and fleet management.

Day | Time | Location
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Lecture T | 12:40-2:45 p.m. | SK 232 and Lab W | 8:00-11:15 a.m. | GC 100

Fundamentals of Turfgrass Science and Management: 2230T (3 credits)
Specialized course in golf course management including the organization, design, construction, equipment, personnel, finances, and maintenance of the golf course.

Day | Time | Location
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Lecture T, Th | 4:10-5:05 p.m. | SK 232 and Lab T | 9:10-11:15 a.m. | SK 232

Golf Course Organization and Management: 2270T (3 credits)
Specialized course in golf course management including the organization, design, construction, equipment, personnel, finances, and maintenance of the golf course.

Day | Time | Location
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Lecture M, W | 11:30-12:25 p.m. | SK 232 and Lab Th | 9:10-12:25 p.m. | GC 100

Sports Turf Operations Organization and Management: 2260T (3 credits)
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.

Day | Time | Location
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Lecture M, W | 11:30-12:25 p.m. | SK 232 and Lab Th | 9:10-12:25 p.m. | GC 100

PGM Player Development: 3488.02 (1 credit)
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.

Day | Time | Location
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Lecture M | 1:50-5:05 p.m. | GC 100

Humanities

Humanities as a Window on Cultural Pluralism: Global Arts: 1190.02T (3 credits)
An introduction to specific visual arts and cultural contexts of four societies: Japan, Ghana, France, USA.

Day | Time | Location
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Lecture T, Th | 3:00-4:20 p.m. | AT 152

Mathematics

Basic Mathematics I: 1030T (3 credits)
A foundation course in arithmetic and beginning algebra skills. Emphasis is on obtaining competencies necessary to be successful in the Basic Mathematics II course.

Day | Time | Location
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Lecture M, W, F | 10:20-11:15 a.m. | SK 101
Basic Mathematics II: 1040T  (3 credits)
A review of algebra and geometry fundamentals with emphasis on measurement, percent application, two and three-dimensional geometry application, and direct and inverse proportion.

Day   Time   Location
Lecture M, W, F  10:20-11:15 a.m.  TBA

Business Mathematics: 1141T:  (3 credits)
The mathematics of business and finance: including proportion, the income statement, simple interest, compound interest, annuities, amortization and sinking funds.

Day   Time   Location
Lecture M, W, F  11:30-12:25 p.m.  SK 101 or
Lecture M, W, F  12:40-1:35 p.m.  SK 101

Technical Mathematics II: 1145T  (3 credits)
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.

Day   Time   Location
Lecture M, W, F  9:10-10:05 a.m.  AT 086

Precollege Mathematics I: 1050  (5 credits)
Fractions and decimals, basic algebra, graphing lines, factoring, systems of equations.

Day   Time   Location
Lecture M-F  10:20-11:15 a.m.  SK 225 or
Lecture M-F  4:10-5:05 p.m.  SK 225

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, W, Th, 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 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  10:20-11:15 a.m.  SK 105

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  5:20-6:15 p.m.  SK 231 and
Lab T  5:20-8:35 p.m.  SK 231
August 22 – October 10

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  3:00-3:55 p.m.  AT 152

Physics

E & M, Optics, Modern Physics: 1201  (5 credits)
Algebra-based introduction to electricity and magnetism, simple optics, overview of modern physics including special relativity and quantum mechanics.

Day   Time   Location
Lecture M, W, Th, F  1:50-2:45 p.m.  SK 225 and
Lab T  11:30-2:45 p.m.  AT 149

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 T, Th  6:30-7:50 p.m.  SK 206

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  1:50-2:45 p.m.  SK 100
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.

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<td>11:30-12:25 p.m.</td>
<td>AT 082 or</td>
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<tr>
<td>Lecture M, W, F</td>
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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.

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<td>Lecture T, Th</td>
<td>3:00-4:20 p.m.</td>
<td>AT 286</td>
</tr>
</tbody>
</table>

Technical Physics

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

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture M, W, Th, F</td>
<td>3:00-3:55 p.m.</td>
<td>TBA and</td>
</tr>
<tr>
<td>Lab Th</td>
<td>11:30-1:35 p.m.</td>
<td>AT 149</td>
</tr>
</tbody>
</table>

Does your employer pay for education expenses? We accept purchase orders and credit cards!

In the event of insufficient enrollment, it may be necessary to cancel a course. If this is the case, you will be notified in advance and receive a full refund.

A one-time, non-refundable application fee of $60 is due upon application for first-time Ohio State university students.

Locations

AC = Bee Lab
AF = Apple Creek Farm
AT = Halterman Hall
AG = Greenhouse Classroom
CL = Construction & Landscape Lab
EQ = Equine Center
FA = Fisher Auditorium Classroom (OARDC)
GC = Golf Course
LD = Land Lab
SH = Selby Hall (OARDC)
SK = Skou Hall

Key

Course requires use of a computer/Internet access
Night class
Online, on your own time

Autumn 2017 Calendar

Registration deadline: Aug. 3, 2017
Payment deadline: Aug. 15, 2017
Classes begin: Aug. 22, 2017
Classes are from August 22-Dec. 6. No classes will be held Sept. 4, Nov. 10, 22, 23 & 24, 2017.

Autumn Break: Nov. 22-26
Final exams are scheduled Dec. 8-14.
Course days and times are subject to change; please contact us for schedule details.

All campuses of The Ohio State University are tobacco-free. Tobacco use of any kind, including e-cigarettes, is not permitted on any Ohio State University property.