Spring Semester 2018
Schedule of Courses

Registration deadline:
Dec. 18, 2017
Payment deadline:
Jan. 2, 2018
Classes begin:
Jan. 8, 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 27 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.

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 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.

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.

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.

The Ohio State University College of Food, Agricultural, and Environmental Sciences embraces human diversity and is committed to ensuring that all educational programs conducted by CFAES are available to clientele on a nondiscriminatory basis without regard to race, color, age, gender identity or expression, disability, religion, sexual orientation, national origin, or veteran status.

<table>
<thead>
<tr>
<th>Credit</th>
<th>Tuition</th>
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<tbody>
<tr>
<td>1</td>
<td>$313.30</td>
<td>7</td>
<td>$2,192.40</td>
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<tr>
<td>2</td>
<td>$626.40</td>
<td>8</td>
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<td>3</td>
<td>$939.60</td>
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<td>4</td>
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<td>5</td>
<td>$1,566.00</td>
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<td>$3,445.20</td>
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<tr>
<td>6</td>
<td>$1,879.20</td>
<td>12-18</td>
<td>$3,758.40</td>
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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.

Day | Time    | Location
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Lecture M, Th | 9:10-10:05 a.m. | AT 152 and
Lab W, F | 9:10-10:05 a.m. | AT 152 or
Lecture M, W | 10:20-11:15 a.m. | AT 152 and
Lab T, F | 10:20-11:15 a.m. | AT 152 or
Lecture M, Th | 12:40-1:35 p.m. | AT 152 and
Lab W, F | 12:40-1:35 p.m. | AT 152

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.

Day | Time    | Location
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Lecture M, W, F | 12:40-1:35 p.m. | AT 124 or
Lecture M, W, F | 11:30-12:25 p.m. | AT 124 or
Lecture M, W, F | 4:10-5:05 p.m. | AT 124 or
Lecture M, W | 7:40-9:00 p.m. | TBA

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.

Day | Time    | Location
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Lecture M, W, F | 1:50-3:40 p.m. | AT 124
January 8 - February 23

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.

Day | Time    | Location
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Lecture M, W, F | 9:10-10:05 a.m. | AT 082 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
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Lecture M, W, F | 9:10-10:05 a.m. | SK 206 and
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 203

Animal Sciences

Equine Feeding and Nutrition: 3131T (2 credits)
A study of the nutritional needs of equine and of the principles and practices involved in providing balanced rations to different nutritional classes of equine.

Day | Time    | Location
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Lecture M, T | 3:00-3:55 p.m. | SK 215 and
Lab W | 3:00-6:15 p.m. | SK 231

Horse Health and Disease: 3171T (3 credits)
Study of equine disease, lameness and emergency first aid with emphasis on preventative health care and the manager’s role with the veterinary professional.

Day | Time    | Location
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Lecture T | 1:50-2:45 p.m. | SK 205 and
Lecture Th | 4:10-5:05 p.m. | SK 205 and
Lab F | 8:00-10:05 a.m. | EQ 100 or
Lab W | 11:30-1:35 p.m. | EQ 100

Horse Breeding and Selection: 3151T (3 credits)
Principles of equine breeding management with emphasis on applied equine reproductive physiology, breeding methods, breeding stock management and basic genetics and selection.

Day | Time    | Location
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Lecture T | 11:30-12:25 p.m. | SK 201 and
Lecture Th | 8:00-8:55 a.m. | SK 201 and
Lab Th | 10:20-12:25 p.m. | EQ 100 or
Lab T | 9:10-11:15 a.m. | EQ 100

Applied Equine Reproductive Management: 3161T (2 credits)
Advanced course in equine reproductive management with emphasis on understanding and improving equine infertility; applications of current research; and development of technical skills.

Day | Time    | Location
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Lecture Th | 1:50-2:45 p.m. | SK 201 and
Lab F | 10:20-1:35 p.m. | EQ 100

Horse Judging and Evaluation: 3201T (2 credits)
Comparative evaluation of horse conformation by breed, assessment of performance in a variety of performance disciplines; development of tools for assessing and placing show horse classes.

Day | Time    | Location
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Lecture Th | 12:40-1:35 p.m. | SK 231 and
Lab Th | 1:50-5:05 p.m. | EQ 100

Principles of Livestock Health: 3170T (3 credits)
A basic introduction to the relationship between animal health and performance. Topics include: immunology, sanitation, disease etiology, and disease prevention, symptoms, and treatment.

Day | Time    | Location
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Lecture M, W, F | 9:10-10:05 a.m. | SK 100

Principles of Swine Nutrition: 3133T (2 credits)
A study of the basic nutritional requirements of swine, common feedstuffs and ration balancing.

Day | Time    | Location
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Lecture M, W, F | 12:40-1:35 p.m. | SK 231
Swine Production and Management II: 3403T (3 credits)
An advanced study of the principles of managing a commercial swine enterprise. Coordination of production programs, evaluating economic performance, and a survey of contemporary swine housing and equipment options.

Day  Time  Location
Lecture M, W, F  3:00-3:55 p.m.  SK 215 and
Lab T  10:20-12:25 p.m.  SK 215

Dairy Cattle Genetic Improvement: 3157T (3 credits)
Principles of inheritance and the genetic improvement of dairy cattle through cellular, qualitative, and population genetics; emphasizing breeding values, selection, and mating systems.

Day  Time  Location
Lecture M, W, F  10:20-11:15 a.m.  SK 215 and
Recitation T  9:10-11:15 a.m.  SK 215

Dairy Cattle Health Management: 3177T (4 credits)
A study of immunology and dairy cattle health management, including disease prevention, identification, and treatment of common diseases influencing the performance of dairy cattle.

Day  Time  Location
Lecture M, W, F  10:20-11:15 a.m.  SK 212 and
Lab Th  8:00-11:15 a.m.  SK 212 or
Lab Th  12:40-3:55 p.m.  SK 212

Integrated Dairy Farm Business Management: 3887T (4 credits)
A study of dairy farm business management combining business, financial, and animal management principles, practices, and strategies; emphasis placed on developing a business plan and problem solving.

Day  Time  Location
Lecture M  8:00-9:50 a.m.  SK 215 and
Recitation Th  8:00-8:55 a.m.  SK 215 and
Lab W, F  8:00-10:05 a.m.  SK 231

Livestock Genetic Improvement: 3150T (3 credits)
Principles of inheritance and the genetic improvement of livestock through cellular, qualitative, and population genetics; emphasizing breeding values, selection, and mating systems.

Day  Time  Location
Lecture M, W, F  10:20-11:15 a.m.  SK 225 and
Recitation T  12:40-2:35 p.m.  SK 206

Beef Production and Management: 3402T (3 credits)
The application of science and basic principles of nutrition, genetics, physiology, and marketing to the production and management of beef cattle in breeding and feeding production programs.

Day  Time  Location
Lecture M, W, F  12:40-1:35 p.m.  SK 201 and
Lab Th  1:50-3:55 p.m.  SK 225

Principles in Ruminant Nutrition: 3132T (2 credits)
Principles of beef cattle and small ruminant nutrient requirements and feeding management with emphasis on the critical evaluation and formulation of rations in current management situations.

Day  Time  Location
Lecture M, F  4:10-5:05 p.m.  SK 205 and
Lab T  8:00-10:05 a.m.  SK 231 or
Lab Th  8:00-10:05 a.m.  SK 231

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  11:30-12:25 p.m.  SK 100 and
Lab W  8:00-8:55 a.m.  SK 215 or
Lab W  1:50-2:45 p.m.  SK 215 or
Lab W  4:10-5:05 p.m.  SK 215

Small Ruminant Production and Management: 3404T (3 credits)
The application of science and basic principles of nutrition, genetics, physiology, and marketing to the production and management of sheep, goats, and other small ruminants.

Day  Time  Location
Lecture T, Th  11:30-12:25 p.m.  SK 231 and
Lecture W  4:10-5:05 p.m.  SK 212 and
Lab T  3:00-5:05 p.m.  SK 212

Principles of Farm Business Management: 3800T (4 credits)
A study of economic and management principles involved in planning, organizing, operating, and administering a farm business; emphasis placed on developing a business plan and problem solving.

Day  Time  Location
Lecture M, F  8:00-9:50 a.m.  SK 212 and
Lecture F  9:10-10:05 a.m.  SK 212 and
Recitation F  8:00-8:55 a.m.  SK 212 and
Lab W  8:00-10:05 a.m.  SK 212

Biology

Introductory Biology: 1101 (4 credits)
Basic principles of biology; topics include the nature of science, organismal diversity, evolution, ecology, genetics, reproduction, and cellular structure and function. Not intended students majoring in one of the biological sciences.

Day  Time  Location
Lecture M, W, F  3:00-3:55 p.m.  SK 101 and
Lab M  4:10-7:25 p.m.  AT 181

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  1:50-2:45 p.m.  SK 100 and
Lab T  8:00-11:15 a.m.  AT 181 or
Lab W  8:00-11:15 a.m.  AT 181

Biological Sciences: Form, Function, Diversity, and Ecology: 1114 (4 credits)
Exploration of biology and biological principles; evolution and speciation, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 1113 and 1114.

Day  Time  Location
Lecture M, W, F  12:40-1:35 p.m.  SK 101 and
Lab Th  1:50-5:05 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.

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<td>Lab T</td>
<td>12:40-2:45 p.m.</td>
<td>AT 187</td>
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General Botany with Applications: 1250T  (4 credits)
Introduction to the fundamental structures and processes of plants, including plant anatomy, physiology, morphology, reproduction, and genetics.

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<td>Lecture M, W, F</td>
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<td>Lab Th</td>
<td>9:10-11:15 a.m.</td>
<td>AT 181</td>
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Bioenergy & Biological Waste Management

Bioenergy and Wastewater Technologies: 2020T  (3 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.

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<td>Lab T</td>
<td>9:10-12:25 p.m.</td>
<td>AT 159</td>
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Bioenergy and Biological Waste Management Projects: 2040T  (3 credits)
This capstone course provides a general overview of bioenergy-generating and wastewater treatment systems with emphasis on planning and logistics, project management, economics, and operations in a real-world setting. Practical applications for managing waste-to-energy projects and wastewater treatment will be emphasized through hands-on and on-site experience.

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<td>AT 129 and</td>
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<td>Lab M</td>
<td>8:00-11:15 a.m.</td>
<td>AT 159</td>
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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.

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<td>Lecture F</td>
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<td>Lab Th</td>
<td>1:50-5:05 p.m.</td>
<td>AT 159</td>
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</table>

Sustainability and Waste Management: 2035T  (3 credits)
The science and economics of composting, recycling, bioremediation, and phytoremediation will be introduced. Biocoversion of organic wastes and plant-derived sugars to value-added non-fuel products (platform chemicals and other bio-products) will be explored through classroom sessions and laboratory experiments.

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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.

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<td>Lecture M, W, Th, F</td>
<td>12:40-1:35 p.m.</td>
<td>AT 086 and</td>
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<td>Lab T</td>
<td>8:00-11:15 a.m.</td>
<td>AT 187</td>
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January 8 – February 23

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.

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<td>Lab T</td>
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<td>Lab M, W</td>
<td>5:20-7:25 p.m.</td>
<td>AT 200</td>
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January 8 – February 21

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.

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Problem Solving with Spreadsheets and Databases: 2207T  (2 credits)
A problem-solving approach to managing typical business scenarios utilizing spreadsheets and databases.

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<td>AT 203 and</td>
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<td>Lab Th</td>
<td>4:10-6:15 p.m.</td>
<td>AT 200</td>
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General Economics: 1151T  (3 credits)
Study of macro and micro-economic principles applicable to business, agricultural and personal financial decision-making.

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<td>Lecture T, TH</td>
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Fundamentals of Marketing: 2231T  (3 credits)
A survey of the field of marketing including functions, policies, problems, structure, strategies, and opportunities.

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

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<td>Lecture M, W, F</td>
<td>1:50-2:45 p.m.</td>
<td>SK 201</td>
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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.

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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.

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Fundamentals of Business Finance: 2249T  (3 credits)
A study of basic finance principles, such as financial institutions, time value of money, financial analysis, risk and return, budgeting, and investments.

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<td>Lecture T, Th</td>
<td>3:00-3:55 p.m.</td>
<td>AT 082 and SK 137</td>
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<td>Lab T</td>
<td>11:30-1:35 p.m.</td>
<td>AT 082</td>
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Fundamentals of International Business: 2250T  (3 credits)
An overview of international business including the environment, strategies, issues, decisions, and challenges that global businesses encounter.

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<td>11:30-12:25 p.m.</td>
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<td>9:10-11:15 a.m.</td>
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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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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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<tbody>
<tr>
<td>Lecture M, T, W, F</td>
<td>3:00-3:55 p.m.</td>
<td>SK 100 and AT 180</td>
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<tr>
<td>Lab T</td>
<td>8:00-8:55 a.m.</td>
<td>AT 186</td>
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<tr>
<td>Lab W</td>
<td>5:20-6:15 p.m.</td>
<td>AT 186</td>
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<tr>
<td>Lab Th</td>
<td>8:00-8:55 a.m.</td>
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<tr>
<td>Lab Th</td>
<td>12:40-3:55 p.m.</td>
<td>AT 186</td>
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<tr>
<td>Lab Th</td>
<td>5:20-8:35 p.m.</td>
<td>AT 186</td>
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</tbody>
</table>

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

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<th>Day</th>
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<tr>
<td>Lecture M, T, W, F</td>
<td>3:00-3:55 p.m.</td>
<td>SK 100 and AT 180</td>
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<tr>
<td>Lab T</td>
<td>4:10-7:25 p.m.</td>
<td>AT 180</td>
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<tr>
<td>Lab Th</td>
<td>4:10-7:25 p.m.</td>
<td>AT 180</td>
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</table>

General Chemistry II: 1220  (5 credits)
Continuation of 1210 for science majors, covering solutions, kinetics, chemical equilibrium, solubility and ionic equilibria, qualitative analysis, thermodynamics, electrochemistry, descriptive chemistry, coordination compounds, and nuclear chemistry.

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<th>Day</th>
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<tbody>
<tr>
<td>Lecture M, T, W, Th</td>
<td>12:40-1:35 p.m.</td>
<td>SK 201 and AT 180</td>
</tr>
<tr>
<td>Lab Th</td>
<td>8:00-11:15 a.m.</td>
<td>AT 180</td>
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</table>

Organic Chemistry II: 2520  (4 credits)
Continuation from 2510, including aromatic systems, carboxylic acids, carboxylic acid derivatives, amines, carbon-carbon bond-forming reactions, polymers, carbohydrates and amino acids.

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<th>Day</th>
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<tbody>
<tr>
<td>Lecture M, T, Th, F</td>
<td>9:10-10:15 a.m.</td>
<td>AT 129</td>
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</tbody>
</table>

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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<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 212</td>
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</tbody>
</table>

Community Leadership

Introduction to Agricultural Communication, Education, and Leadership: 2530  (2 credits)
Creating an awareness and understanding of the agricultural communication, education and leadership profession. The class will provide a basis for educating, communicating, and leading by synthesizing theoretical knowledge with practical application.

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<th>Day</th>
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<tbody>
<tr>
<td>Lecture T, Th</td>
<td>11:30-12:25 p.m.</td>
<td>SK 205</td>
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</table>

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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<th>Day</th>
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<tr>
<td>Lecture M, W</td>
<td>5:20-6:40 p.m.</td>
<td>SK 205 or AT 180</td>
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<tr>
<td>Lecture M, W, F</td>
<td>4:10-5:05 p.m.</td>
<td>SK 205 or AT 180</td>
</tr>
<tr>
<td>Lecture T, Th</td>
<td>5:20-6:40 p.m.</td>
<td>SK 201</td>
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</table>

Crops & Soil Technology

Applied Precision Agriculture: 2280T  (3 credits)
An introduction to precision agriculture technologies including auto-guidance, prescription mapping, variable rate technologies, and remote sensing with a focus on practical application of the technologies in modern production systems.

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<th>Day</th>
<th>Time</th>
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<tr>
<td>Lecture M</td>
<td>8:00-8:55 a.m.</td>
<td>SK 137 and AT 129</td>
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<tr>
<td>Lab M</td>
<td>1:50-3:55 p.m.</td>
<td>AT 203 and AT 180</td>
</tr>
<tr>
<td>Lab W</td>
<td>12:40-3:55 p.m.</td>
<td>AT 203</td>
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Integrated Pest Management: 2265T  (2 credits)
A review and application of sustainable methods for controlling disease, insect, and weed pests in crops.

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<tr>
<td>Lecture T</td>
<td>11:30-12:25 p.m.</td>
<td>SK 137 and AT 129</td>
</tr>
<tr>
<td>Lab T</td>
<td>12:40-3:55 p.m.</td>
<td>SK 137</td>
</tr>
</tbody>
</table>
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  8:00-8:55 a.m.  SK 100

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 or
Lab Th  12:40-3:55 p.m.  AT 162

Soil and Water Conservation Systems: 2040T  (4 credits)
Introduction to erosion control, irrigation, drainage, and wetland systems with an emphasis on land surveying and mapping, system selection, and design.

Day     Time     Location
Lecture M, W  4:10-5:05 p.m.  SK 136 and
Lecture W   9:10-10:05 a.m.  SK 137 and
Lecture F   8:00-8:55 a.m.  SK 137 and
Lab F     9:10-12:25 p.m.  SK 137

Grain and Oilseed Crops: 2411T  (3 credits)
A study of the cultural practices and production principles for grain and oilseed crops.

Day     Time     Location
Lecture M, F  3:00-3:55 p.m.  SK 030 and
Lab T      4:10-6:15 p.m.  SK 030 or
Lab Th     4:10-6:15 p.m.  SK 030

Technology and Field Management of Forage Crops: 2412T  (3 credits)
An applied study of the crop species, field management practices, and agricultural technologies used to grow grasses, legumes, and forbs for forage and livestock production systems. This course is available for EM credit.

Day     Time     Location
Lecture M, F  12:40-1:35 p.m.  SK 100 and
Lab T      11:30-2:45 p.m.  LL 100 or
Lab Th     8:00-11:15 a.m.  LL 100 or
Lab Th     12:40-3:55 p.m.  LL 100

Principles of Farm Business Management: 3800T  (4 credits)
A study of economic and management principles involved in planning, organizing, operating, and administering a farm business; emphasis placed on developing a business plan and problem solving.

Day     Time     Location
Lecture M  8:00-9:50 a.m.  SK 212 and
Lecture F  9:10-10:05 a.m.  SK 212 and
Lecture F  8:00-8:55 a.m.  SK 212 and
Lab W     8:00-10:05 a.m.  SK 212

Engineering Technology

Building Science: Mechanical Systems: 2345T  (3 credits)
Principles, equipment, and applications of building mechanical 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       9:10-11:15 a.m.  SK 137

Small Engine Basics: 2011T  (4 credits)
A study of the theory of operation, service and maintenance and repair of small off-road gasoline and diesel engines.

Day     Time     Location
Lecture T, Th  8:00-8:55 a.m.  SK 137 and
Lab T, Th    9:10-11:15 a.m.  SK 136 or
Lab T, Th    11:30-1:35 p.m.  SK 136

Engine Diagnosis and Repair: 2324T  (3 credits)
An advanced study of multiple cylinder diesel engine diagnostic techniques including repair and rebuilding procedures.

Day     Time     Location
Lecture M, W  5:20-6:15 p.m.  SK 105 and
Lab M, W    6:30-8:35 p.m.  SK 142

Fluids, Filtration, and Fluid Conveyance: 2224T  (2 credits)
Characteristics of hydraulic fluids; methods of filtering oils and of conveying pressurized fluids.

Day     Time     Location
Lecture Th   8:00-8:55 a.m.  SK 134 and
Lab Th       9:10-11:15 a.m.  SK 140

Components and Hydraulic Circuits: 2226T  (2 credits)
A study of advanced hydraulic component topics and of how fluid power components are integrated into a complete system, including performance characteristics and energy efficiency.

Day     Time     Location
Lecture M   10:20-11:15 a.m.  SK 137 and
Lab W       9:10-11:15 a.m.  SK 140

Component Rebuilding: 2221T  (2 credits)
Supervised laboratory experience with emphasis on developing and improving hydraulic component service competencies related to classroom and career activities.

Day     Time     Location
Lecture M   12:40-3:55 p.m.  SK 140 and
Lecture W   3:00-3:55 p.m.  SK 140

Performance of Mobile Power Units: 2348T  (2 credits)
A study of operator comfort and safety, ballast, traction, stability, hitching, engine power ratings, fuel efficiency and other factors affecting the performance and application of mobile power units.

Day     Time     Location
Lecture T   12:40-1:35 p.m.  SK 134 and
Lab T       1:50-3:55 p.m.  SK 142

Instrumentation and Control Systems: 2248T  (4 credits)
Techniques and equipment used for instrumentation of fluid power systems for the purposes of data acquisition and control.

Day     Time     Location
Lecture T   5:20-7:10 p.m.  SK 101 and
Lecture Th  6:30-7:25 p.m.  SK 101 and
Lab Th      7:40-9:45 p.m.  SK 134
Distributor Management: 2331T (2 credits)
Organization and operation of distributor marketing of mobile equipment and fluid power components and systems; emphasis on service and parts distribution.
Day Time Location
Lecture T 7:40-9:45 p.m. SK 136

Introduction to Geographic Information Systems: 2050T (3 credits)
A study of spatial relationships using global positioning and geographic information systems in urban and rural landscapes.
Day Time Location
Lecture M 9:10-10:05 a.m. AT 203 and
Lab W, F 9:10-11:15 a.m. AT 203

Drafting & Computer-Aided Design: 2121T (3 credits)
Principles and applications of technical drawing utilizing proper drafting techniques for creating two dimensional, scaled drawings both by hand and by using current computer-aided design software. Basic computer skills required.
Day Time Location
Lecture Th 11:30-12:25 p.m. SK 201 and
Lab Th 8:00-11:15 a.m. AT 203 or
Lab Th 1:50-5:05 p.m. AT 203

Estimating and Scheduling: 2160T (3 credits)
Estimating complete projects and developing project schedules for standard construction projects in the residential or commercial sectors of the industry.
Day Time Location
Lecture M,W 4:10-5:05 p.m. SK 137 and
Lab M 5:20-7:25 p.m. AT 203

Construction Project Management: 2170T (3 credits)
Principles and practices of construction project and construction business management.
Day Time Location
Lecture T, Th 4:10-6:15 p.m. SK 137

Construction Safety & Health: 2600T (2 credits)
Health and construction safety awareness; focusing on OSHA 30-hour training and certification, OSHA mandated recordkeeping, and corporate health plan development.
Day Time Location
Lecture W 5:20-6:15 p.m. SK 137 and
Lab W 6:30-8:35 p.m. SK 137

Basic Electricity and Electronics: 2322T (3 credits)
Principles of AC and DC electricity and electronics with emphasis on components, operations, and applications.
Day Time Location
Lecture T 1:50-2:45 p.m. SK 105 and
Lecture Th 6:30-7:25 p.m. SK 105 and
Lab T 3:00-5:05 p.m. SK 134 or
Lab T 5:20-7:25 p.m. SK 134

Metals and Metal Manufacturing: 2242T (2 credits)
Introduction to metals and metal manufacturing; including materials, equipment, processes, and products.
Day Time Location
Lecture M 6:30-7:25 p.m. SK 105 and
Lab W 6:30-8:35 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 5:20-7:10 p.m. AT 128 or
Lecture T, Th 5:20-7:10 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 4:10-5:05 p.m. TBA

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.
Day Time Location
Lecture M, W, F 8:00-8:55 a.m. AT 081 or
Lecture M, W, F 10:20-11:15 a.m. AT 081 or
Lecture M, W, F 12:40-1:35 p.m. AT 081 or
Lecture M, W, F 4:10-5:05 p.m. AT 081

Entomology

Beekeeping: 2200 (1 credit)
General information on the biology, behavior and management of honey bee colonies, including pollination behavior and simple honey processing. Class will be video linked from Wooster.
Day Time Location
Lecture TBA Online and
Lab T 4:10-6:00 p.m. SAC 126

Environment & Natural Resource

Communicating Environmental and Natural Resources Information: 2367 (3 credits)
Concepts, skills development, and practice in accessing and communicating information about the environment and natural resources to varied audiences; emphasis on written and oral communication.
Day Time Location
Lecture M, W, F 12:40-1:35 p.m. SK 205

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 5:20-6:40 p.m. SK 206 or
Lecture M, W 7:40-9:00 p.m. SK 206
Contemporary Floral Design: 2680T (3 credits)
An advanced course emphasizing the artistic nature of floral design with a global perspective of contemporary styles, techniques and trends.

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

Post-Harvest Flower Care: 2660T (2 credits)
Principles and practices of post-harvest flower care from producer to consumer with emphasis on identification and proper care and handling at the retail level.

Day Time Location
Lecture T, Th 3:00-3:55 p.m. AT 285

Retail Flower Shop Operation: 2620T (2 credits)
Principles and practices of management and operation of a retail flower shop with emphasis on purchasing, pricing, merchandising, selling, delivery and wire services.

Day Time Location
Lecture M 10:20-11:15 a.m. AT 285 and
Lab M 11:30-12:25 p.m. AT 285 and
Lab W 10:20-12:25 p.m. AT 285

Greenhouse Bedding and Flowering Pot Plant Production: 2540T (4 credits)
Principles and practices of greenhouse bedding and flowering pot plant production, including propagation, transplanting, nutrition, environmental requirements, height control, harvesting, pests, pathogens and post-harvest marketing.

Day Time Location
Lecture T 12:40-1:35 p.m. AG 115 and
Lab W 3:00-3:55 p.m. AG 115 and
Lab T 1:50-5:05 p.m. AG 115

Propagation of Nursery and Greenhouse Plants: 2740T (4 credits)
Principles, techniques, skills, materials, and facilities used to propagate herbaceous and woody plants with emphasis on commercial propagation methods.

Day Time Location
Lecture M, W 10:20-11:15 a.m. AT 285 and
Lecture Th 12:40-1:35 p.m. AG 115 and
Lab W 11:30-12:25 p.m. AT 285 and
Lab L 10:20-12:25 p.m. AT 285

Integrated Greenhouse Climate Control: 3560T (4 credits)
Computerized climate control for greenhouse plant production, including data acquisition and control basics, use of the data, and climate control strategies for improved production efficiency.

Day Time Location
Lecture TBA
Lab TBA

Horticultural Root Media: 2150T (2 credits)
Study of horticultural root media, including functions, texture, structure, ingredients, preparation, pasteurization, pore spaces, water and nutrient holding capacity, pH, irrigation practices and containers.

Day Time Location
Lecture M 10:20-12:25 p.m. AG 115 and
Lab W, F 10:20-12:25 p.m. AG 115
January 8 – February 27

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
Lecture T 1:50-2:45 p.m. SK 232 and
Lab M, W 1:50-3:55 p.m. SK 232

Landscape Design: 2360T (3 credits)
Introduction to landscape drafting, CAD, design and planning emphasizing the design program, form composition, drafting techniques, design representation and 2 and 3-dimensional CAD.

Day Time Location
Lecture T 8:00-8:55 a.m. AT 280 and
Lab T 9:10-12:25 p.m. AT 280 and
Lab Th 11:30-2:45 p.m. AT 200

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
Lecture M, F 9:10-10:05 a.m. SK 232 and
Lab W 9:10-11:15 a.m. SK 232

Plant Diseases of Ornamentals and Turf: 2890T (3 credits)
Principles and practices in diagnosing and treating plant diseases on woody ornamentals and turf.

Day Time Location
Lecture M, W 4:10-5:05 p.m. SK 232 and
Lab F 1:50-3:55 p.m. SK 232

Golf Course and Sports Turf Irrigation and Drainage: 2240T (3 credits)
Principles of design, selection, installation, maintenance, and operation of equipment and materials used in golf course and sports turfgrass irrigation and drainage systems.

Day Time Location
Lecture M, W 12:40-2:45 p.m. GC 100 and
Lab T, Th 12:40-3:55 p.m. GC 100
February 28 - April 3

Introduction to Professional Golf Management: 2250 (2 credits)
Acquaints students with the PGM program, including program facilities and resources, components of the PGA/PGM Program, golf history, PGA Constitution, Career Enhancement, Golf Operations, and Customer Relations.

Day Time Location
Lecture Th 9:10-10:05 a.m. SK 232 and
Lab Th 10:10-11:20 a.m. SK 232
February 28 - April 3

Horticulture and Crop Science

Ecology of Managed Plant Systems: 2201 (4 credits)
Origin, diversification, and biogeography of plants inhabiting managed landscapes.

Day Time Location
Lecture M, W, F 10:20-11:15 a.m. SK 030 and
Lab Th 9:10-11:15 a.m. AG 115 or
Lab F 3:00-5:05 p.m. AG 115

Form and Function in Cultivated Plants: 2202 (4 credits)
An introduction to plant growth and development with special emphasis on structure function relationships important to productivity and quality in cultivated plants.

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. AT 286 and
Lab T 12:40-2:45 p.m. AT 181
Introduction to Agronomy: 3100 (3 credits)
An introductory course of row crop and forage agricultural production (agronomy). This course introduces students to row and forage crop species common in Ohio and surrounding states, and provides fundamental information on how these crops are managed in the region. Management aspects include site preparation, seasonality of management activities, and fundamentals of nutrient and pest management.

Day Time Location
Lecture M, F 3:00-3:55 p.m. SK 030 and
Lab T 4:10-6:15 p.m. SK 030 or
Lab Th 4:10-6:15 p.m. SK 030

Humanities

Humanities as a Window on Cultural Pluralism: The Arts in Ghana: 1190.01T (3 credits)
An introduction to specific arts and cultural contexts of Ghana, West Africa, leading to a four-week study abroad.

Day Time Location
Lecture M 5:20-8:30 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
Lecture M, W, F 12:40-1:35 p.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 4:10-5:05 p.m. SK 101

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 12:40-1:35 p.m. SK 225

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 8:00-8:55 a.m. SK 105

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

Day Time Location
Lecture M-F 8:00-8:55 a.m. SK 101

Precalculus 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, W, F 9:10-10:05 a.m. SK 225 and
Lecture T 1:50-2:45 p.m. SK 225 or
Lecture M, W, F 4:10-5:05 p.m. SK 225 and
Lecture Th 4:10-5:05 p.m. SK 225

College Algebra for Business: 1130 (4 credits)
Algebraic, exponential, and logarithmic functions. Matrix algebra. Applications to business.

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

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

Day Time Location
Lecture M, W, F 9:10-10:05 a.m. SK 105 and
Lecture T 1:50-2:45 p.m. SK 105 or
Lecture M, W, Th, F 11:30-12:25 p.m. SK 101 or
Lecture M, T, W, F 4:10-5:10 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 12:40-1:35 p.m. SK 105

Calculus I: 1151 (5 credits)
Differential and integral calculus of one real variable.

Day Time Location
Lecture M, W, F 10:20-11:15 a.m. SK 105 and
Lecture T, Th 11:30-12:25 p.m. SK 101 or
Lecture M, T, W, F 4:10-5:10 p.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 T 5:20-6:15 p.m. SK 231 and
Lab Th 5:20-8:35 p.m. SK 142
March 1 – April 21

Introductory Meat Science: 3110 (3 credits)
Analysis of the principles of meat science as related to meat animal value factors, processing technology, and merchandising systems affecting the producer, processor, and consumer.

Day Time Location
Lecture M, W, F 1:50-2:45 p.m. SK 030

Microbiology

Basic and Practical Microbiology: 4000 (4 credits)
Provides an understanding of microorganisms and their interaction with the human experience.

Day Time Location
Lecture M, W, F 11:30-12:25 p.m. AT 129 and
Lab Th 8:00-11:15 a.m. AT 123 or
Lab W 8:00-11:15 a.m. AT 123

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 8:00-8:55 a.m. AT 152 or
Lecture M, W, F 11:30-12:25 p.m. AT 152 or
Lecture M, W, F 1:50-2:45 p.m. AT 152
Physics

Mechanics, Kinematics, Fluids, Waves: 1200 (5 credits)
Algebra-based introduction to classical physics: Newton’s laws, fluids, waves.

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<td>Lecture M, W, Th, F</td>
<td>4:10-5:05 p.m.</td>
<td>AT 149 and</td>
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<tr>
<td>Lab Th</td>
<td>12:40-3:55 p.m.</td>
<td>AT 149</td>
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Psychology

Introduction to Psychology: 1100 (3 credits)
A prerequisite to advanced courses: a broad survey of psychological science. Application of the scientific method to the empirical study of behavior with emphasis on individual and cultural differences.

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</tr>
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<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>8:00-8:55 a.m.</td>
<td>SK 205</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>1:50-2:45 p.m.</td>
<td>SK 205</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>12:40-1:35 p.m.</td>
<td>SK 030 or</td>
</tr>
<tr>
<td>Lecture M, W, F</td>
<td>3:00-3:55 p.m.</td>
<td>SK 206 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>

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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Online, on your own time</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>8:00-9:05 a.m.</td>
<td>SK 101</td>
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</tbody>
</table>

January 8 – February 23

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>
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</thead>
<tbody>
<tr>
<td>Lecture M, W, F</td>
<td>11:30-12:25 p.m.</td>
<td>AT 149 and</td>
</tr>
<tr>
<td>Lecture W</td>
<td>1:50-2:45 p.m.</td>
<td>AT 149</td>
</tr>
<tr>
<td>Lab F</td>
<td>1:50-3:55 p.m.</td>
<td>AT 149</td>
</tr>
</tbody>
</table>

Locations

AC = Bee Lab
AF = Apple Creek Farm
AT = Halterman Hall
AG = Greenhouse Classroom
EQ = Equine Center
GC = Golf Course
LD = Land Lab
SAC = Student Activities Center
SK = Skou Hall

Key

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

Spring 2018 Calendar

Registration deadline: December 18, 2017
Payment deadline: January 2, 2018
Classes begin: January 8, 2018
Classes are from January 8 - April 23, 2018. No classes will be held January 15.
Spring break: March 12-16.
Final exams: April 25 - May 1.
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.

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