

AG - HORTICULTURE (AGH)

AGH-102 Horticulture Math (3)

Reviews basic math calculations including math operations, fractions, decimals, introductory algebra and geometry. Relates math problems to horticulture applications. Arts & Sciences Elective Code: B

Hours per week: 3.0 lecture

AGH-110 Success in Horticulture (1)

Acquaints students with critical issues relevant to horticulture, and provides information, skills and opportunities to be successful in the program, as well as their chosen career. Encourages students to stay engaged in their educational experience, both in and outside the classroom. This class is a source for both personal and academic growth, where students can develop lasting relationships and acquire skills to help them in making difficult choices. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture

AGH-112 Introduction to Turfgrass Management (3)

Introduces the students to the field of turfgrass science. Applies principles and practices involved in successful maintenance of turfgrass areas. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-141 Equipment Operations (3)

Teaches the proper techniques for using common pieces of horticulture equipment and attachments. Applied skills include safe operating techniques, daily inspection checklists, and start-up procedures, as well as basic maintenance and troubleshooting of equipment used in the horticulture industry. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-144 Landscape Construction (3)

Involves the construction of segmental paving systems, segmental retaining walls, basic wood construction for landscape use, landscape lighting and water feature construction. Covers calculations necessary to order materials and bid procedures. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-152 Landscape Design Techniques (3)

Provides information and practice in basic graphic communication and introductory landscape design. Topics covered include use of scales, basic drafting, landscape symbols, design process, master planning, design with plant material and cost estimating. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-156 Landscape Design II (3)

Expands graphic communication and landscape design skills. Topics include freehand plan graphics, quick sketching, perspective and color drawing, landscape master planning, advanced plant design, amenity design, commercial layout. Arts & Sciences Elective Code: B; Comments: Second-year student

Hours per week: 2.0 lecture, 2.0 lab

Pre/corequisite: Take AGH-152.

AGH-166 Turfgrass and Landscape Irrigation (3)

Assists students in developing career skills for many areas of irrigation and water management. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-167 Introduction to Landscape Computer Design (4)

Introduces software used in landscape, nursery, and garden centers with an emphasis on design, marketing, inventory control, customer relations, sales, and presentation. Builds landscape design skills. Teaches computer design software to improve design efficiency and graphic communication. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 4.0 lab

Prerequisite: Take AGH-152.

AGH-168 Hardscape Design (2)

Introduces how to create a hardscape area involving sizing, material selection, pricing, and design and site layout. Uses landscape design software to create and construct a design. Requires completion of Hardscape Installation Techniques. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 2.0 lab

Corequisite: Take AGH-304.

AGH-211 Advanced Turfgrass Management (3)

Presents management techniques used in high-maintenance turf areas. Students receive advanced instruction in fertilization, pesticides, etc. Arts & Sciences Elective Code: B; Comments: Second-year student

Hours per week: 3.0 lecture

Pre/corequisite: Take AGH-112.

AGH-220 Plant Identification I (3)

Studies the identification and use of a set of woody ornamental shrubs and trees currently used in Midwestern landscape horticulture. Includes plant identification using botanical nomenclature, specific cultural requirements and how each is used in landscape design. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-221 Principles of Horticulture (3)

Provides an introduction to horticulture covering the basic knowledge and skills associated with growth and development of plants including fruits, vegetables, turfgrass, and ornamentals. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-236 Plant Material Maintenance (3)

Studies pruning, fertilizing, staking and other maintenance practices utilized in tree and shrub care. Emphasizes proper planting and transplanting procedures. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-238 Soil and Water Conservation (3)

Studies the different components of soil, soil forming factors, soil erosion and soil conservation. Introduces the student to surveying techniques and use of soil survey reports. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

AGH-240 Plant Identification II (3)

Studies the identification and use of a set of annual, herbaceous perennial, and woody ornamental shrubs and trees currently used in Midwestern landscape horticulture. Includes the identification of plants using botanical nomenclature, the specific cultural requirements of each plant and how the plant can be used in landscape design. Second of a two-course sequence. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture, 2.0 lab

Prerequisite: Take AGH-220.

AGH-264 Hydroponic Production (3)

Examines the urban horticulture practices of hydroponics and aquaponics in a controlled environment. Focuses on the establishment of correct growing environments, plant selection and nutrition, growing techniques, common pests and diseases, harvesting, and marketing crops. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture, 2.0 lab

AGH-282 Pesticide Application Certification-Horticulture (1)

Reviews materials and testing procedures used to certify pesticide applicators. Concentration is provided on core testing. Arts & Sciences Elective Code: B
Hours per week: 1.0 lecture

AGH-297 Landscape Business Operations (4)

Introduces business structures, how to establish a business, business administration, and landscape project estimating. Strong emphasis on the fundamentals of creating a landscape project estimate. Includes material take-offs, plant pricing, labor rates, measuring, reading landscape plans and math calculations. Arts & Sciences Elective Code: B
Hours per week: 4.0 lecture

AGH-303 Sustainable Site Management (3)

Covers the latest topics in environmentally-sound landscape practices. Introduces green building, on-site water management strategies and habitat preservation. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

AGH-304 Hardscape Installation (4)

Elevates students beyond basic hardscape installation. Studies contemporary design and installation trends. Provides hands-on experience with the latest construction materials. Also provides activities and demonstration with the use of laser instruments for project site measurements and project layout. Includes opportunities for professional certifications in product installation. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture, 4.0 lab

AGH-400 Athletic Field Maintenance (3)

Involves the design, preparation, and maintenance of athletic fields for various sports. Includes the study of various playing surfaces, drainage systems and specialized equipment used on athletic fields. Course includes field trips to local athletic complexes. Arts & Sciences Elective Code: B
Hours per week: 2.0 lecture, 2.0 lab

Prerequisite: Take AGH-112.

AGH-405 Golf Course Maintenance (3)

Involves the theory of design, installation and maintenance of specialized turf and other areas commonly found on golf courses. Student is provided with experience maintaining an on-campus golf green, fairway and tee. Course includes field trips to local golf courses. Arts & Sciences Elective Code: B; Comments: Second-year student
Hours per week: 2.0 lecture, 2.0 lab

AGH-445 Turfgrass Management and Administration (3)

Examines the management and administration practices of the turfgrass industry. Includes budgeting, turfgrass facilities organization, crew motivation and management, business plan proposals, project management, managing meetings, dealing with conflict, and managing an increasingly diverse work force. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

Prerequisite: Take AGH-112.

AGH-465 Turf and Landscape Capstone (3)

Focuses on three components in the turf and landscape industry - career, management, and operations. Examines career path opportunities. Reviews the business and economic principles applied to decision-making and problem-solving in managing a business. Identifies the unique business activities including golf course, sports turf, landscape, greenhouse, and lawn care businesses. Arts & Sciences Elective Code: B
Hours per week: 3.0 lecture

AGH-948 Special Projects (1-3)

Involves individualized study programs or projects supervised by instructional staff. Students resolve special interests/needs through research, experimentation or other related methods. Arts & Sciences Elective Code: B
Hours per week: 1.0 lecture