

HORTICULTURE

Program Overview

MCC's Horticulture Program provides high-quality educational opportunities for students in the areas of landscape design and management, turf management, gardening, greenhouse crop production, interiorscaping and floral design.

Growing and caring for vegetables, fruits, flowers, turf, and ornamental trees and shrubs is a rapidly growing, multimillion dollar industry in Illinois. With increasing urbanization, demand is expected to continue for well-trained workers at all levels.

MCC prepares students for the growing industry through an AAS degree in horticulture with specialties in floral design, greenhouse and landscape. Certificates are available in floral design, gardening, greenhouse, landscape management, and turf and golf course management.

Students come away with a solid knowledge of plant production and maintenance, ready for positions in flower shops, greenhouses, garden centers, golf courses, parks, nurseries, turf and landscape businesses, interiorscape maintenance companies, and the seed and supply industry.

The AAS degree requires an internship that gives students insight into the day-to-day operations of running a flower shop, landscape design or other horticulture business.

The primary purpose of an Associate in Applied Science degree is to prepare students for employment. The AAS degree is not designed specifically for transfer; however, there are opportunities to apply some coursework or the whole degree to a bachelor's degree program. For more information, see an academic advisor and the department chair.

Requirements for the Associate in Applied Science (AAS) in Horticulture

Curriculum: OCC 180	Credit Hours		
General Education Core			
Communications 2 courses ENG 105 and SPE 151 recommended	6	(3) ENG 105 Technical Communications (3) ENG 151 Composition I	(3) ENG 152 Composition II (3) SPE 151 Intro to Speech
Humanities & Fine Arts 1 course	3	Humanities <i>Select from the following prefixes or course numbers:</i> ENG (does not include: 105, 151, 152, 088-099) FRE GER (3) JRN 152 Intro to Mass Communication (3) JRN 155 Newswriting (3) JRN 165 Intro to Broadcasting (3) JRN 170 Feature Writing PHI (4) SPA 151 Elementary Spanish I (4) SPA 152 Elementary Spanish II (4) SPA 251 Intermediate Spanish I (4) SPA 252 Intermediate Spanish II (3) SPE 155 Interpersonal Communication (3) SPE 161 Small Group Communication	Humanities cont'd. (3) SPE 251 Intercultural Communication (3) SPE 265 Fundamentals of Oral Interpretation Fine Arts <i>Select from the following prefixes or course numbers:</i> ART (does not include: 166, 290, 299) (3) AET 141 Interior Design I (3) AET 142 History of Interiors (3) AET 241 Interior Design II (3) DGM 167 Graphic Design I (3) DGM 168 Computer Art I (3) JRN 180 Intro to Film MUS (does not include: 100, 104, 160, 161, 162, 201-218) THE
Mathematics, Physical or Life Sciences 1 course	4	(4) HRT 103 Intro to Plant Science	
Social and Behavioral Sciences 1 course	3	<i>Select from the following prefixes or course numbers:</i> ANT ECO (3) GEG 202 Geog. of Developed World (3) GEG 203 Geog. of Developing World (3) GEG 204 Economic Geography	HIS PLT PSY SOC

Program Core	23	(4) CHM 164 Introductory Chemistry (3) HRT 100 Intro to Horticulture (4) HRT 105 Intro to Soil Science (3) HRT 150 Plant Problem Diagnosis & Management	(3) HRT 250 Horticulture Internship (3) HRT 251 Turf & Ornamental IPM (3) MGT 210 Human Resources Management
Program Electives 3 credit hours	3	(3) BUS 150 Intro to Business (3) BUS 160 Intro to Entrepreneurship	(3) BUS 162 Entrepreneurship Business and Planning (3) HRT 222 Flower Shop Management
Please select one of the following options: Floral Design Specialty, Greenhouse Specialty or Landscape Specialty NOTE: Students must select a minimum of 6 courses or 18 credit hours . Of these, 4 courses or 12 credit hours must be within one specialty grouping listed below; the remaining 6 credit hours may be chosen from the same or another specialty.			
Floral Design Specialty Option 12 credit hours	12	(3) HRT 120 Basic Floral Design (3) HRT 125 Intermediate Floral Design (3) HRT 130 Fall Greenhouse Production (3) HRT 221 Advanced Floral Design	(3) HRT 222 Flower Shop Management (3) HRT 229 Silk & Dried Floral Design (3) HRT 290 Topics & Issues in Horticulture (3) HRT 299 Horticulture Independent Study
Greenhouse Specialty Option 12 credit hours	12	(3) HRT 120 Basic Floral Design (3) HRT 130 Fall Greenhouse Production (3) HRT 159 Landscape Perennials (3) HRT 222 Flower Shop Management	(3) HRT 231 Spring Greenhouse Production (3) HRT 290 Topics & Issues in Horticulture (3) HRT 299 Horticulture Independent Study
Landscape Specialty Option 12 credit hours	12	(3) ART 153 Two-Dimensional Design (3) ART 156 Drawing I (3) AET 151 Computer Aided Design Graphics I (3) HRT 159 Landscape Perennials (3) HRT 160 Trees & Shrubs in the Landscape (3) HRT 161 Landscape Design (3) HRT 181 Turf & Lawn Management	(3) HRT 264 Arboriculture (3) HRT 265 Landscape CAD (3) HRT 266 Landscape Construction (3) HRT 271 Woody Plant Propagation (3) HRT 282 Golf Course & Sports Turf Management (3) HRT 290 Topics & Issues in Horticulture (3) HRT 298 Nursery Experience (3) HRT 299 Horticulture Independent Study
Choose 6 credit hours from any Specialty Option	6	See above choices within specialties	
Total Degree Credits	60		

Other AAS Graduation Requirements:

- 2.0 cumulative GPA at MCC upon completion of program
- 15 semester hours of program-specific coursework taken at MCC

- Completion of Intent to Graduate form
- Completion of end-of-program assessment as directed by this department

Requirements for the Floral Design Certificate

Curriculum: OCC 185	Credit Hours		
Program Core	15	(3) HRT 120 Basic Floral Design (3) HRT 125 Intermediate Floral Design (3) HRT 221 Advanced Floral Design	(3) HRT 222 Flower Shop Management (3) HRT 229 Silk & Dried Floral Design
Program Electives 6 credit hours	6	(3) ART 253 Three-Dimensional Design (3) BUS 150 Intro to Business (3) BUS 160 Intro to Entrepreneurship (3) BUS 162 Entrepreneurship Business and Planning	(3) HRT 100 Intro to Horticulture (4) HRT 103 Intro to Plant Science (3) HRT 130 Fall Greenhouse Production (3) MKT 130 Professional Selling (3) SPA 101 Occupational Spanish I
Total Certificate Credits	21		

Requirements for the Gardening Certificate

Curriculum: OCC 182	Credit Hours		
Program Core	14	(4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science (3) HRT 150 Plant Problem Diagnosis & Management	(3) HRT 299 Horticulture Independent Study (Master Gardener Training) or (3) HRT 100 Intro to Horticulture
Program Electives 6 credit hours	6	(3) HRT 130 Fall Greenhouse Production (3) HRT 159 Landscape Perennials (3) HRT 160 Trees & Shrubs in the Landscape	(3) HRT 181 Turf & Lawn Management (3) HRT 251 Turf & Ornamental IPM (3) HRT 264 Arboriculture (3) HRT 290 Topics & Issues in Horticulture
Total Certificate Credits	20		

Requirements for the Greenhouse Certificate

Curriculum: OCC 181	Credit Hours		
Program Core	22	(4) HRT 103 Plant Science (3) HRT 120 Basic Floral Design (3) HRT 130 Fall Greenhouse Production (3) HRT 150 Plant Problem Diagnosis & Management	(3) HRT 159 Landscape Perennials (3) HRT 231 Spring Greenhouse Production (3) HRT 251 Turf & Ornamental IPM
Program Electives 6 credit hours	6	(3) BUS 150 Intro to Business (3) BUS 160 Intro to Entrepreneurship (3) BUS 162 Entrepreneurship Business and Planning (3) HRT 100 Intro to Horticulture (4) HRT 105 Intro to Soil Science	(3) HRT 125 Intermediate Floral Design (3) HRT 221 Advanced Floral Design (3) HRT 222 Flower Shop Management (3) HRT 290 Topics & Issues in Horticulture (3) SPA 101 Occupational Spanish I
Total Certificate Credits	28		

Requirements for the Landscape Management Certificate

Curriculum: OCC 184	Credit Hours		
Program Core	32	(4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science (3) HRT 150 Plant Problem Diagnosis & Management (3) HRT 159 Landscape Perennials	(3) HRT 160 Trees & Shrubs in the Landscape (3) HRT 161 Landscape Design (3) HRT 181 Turf & Lawn Management (3) HRT 251 Turf & Ornamental IPM (3) HRT 264 Arboriculture (3) HRT 266 Landscape Construction
Program Electives 3 credit hours	3	(3) BUS 150 Intro to Business (3) BUS 160 Intro to Entrepreneurship (3) BUS 162 Entrepreneurship Business and Planning (3) HRT 100 Intro to Horticulture (3) HRT 130 Fall Greenhouse Production	(3) HRT 265 Landscape CAD (3) HRT 271 Woody Plant Propagation (3) HRT 290 Topics & Issues in Horticulture (3) HRT 298 Nursery Experience (3) SPA 101 Occupational Spanish I
Total Certificate Credits	35		

Requirements for the Turf and Golf Course Management Certificate

Curriculum: OCC 183	Credit Hours		
Program Core	20	(4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science (3) HRT 150 Plant Problem Diagnosis & Management	(3) HRT 181 Turf & Lawn Management (3) HRT 251 Turf & Ornamental IPM (3) HRT 282 Golf Course & Sports Turf Management
Program Electives 9 credit hours	9	(3) BUS 150 Intro to Business (3) BUS 160 Intro to Entrepreneurship (3) BUS 162 Entrepreneurship Business and Planning (3) HRT 100 Intro to Horticulture (3) HRT 159 Landscape Perennials	(3) HRT 160 Trees & Shrubs in the Landscape (3) HRT 161 Landscape Design (3) HRT 264 Arboriculture (3) HRT 266 Landscape Construction (3) HRT 271 Woody Plant Propagation (3) HRT 290 Topics & Issues in Horticulture (3) SPA 101 Occupational Spanish I
Total Certificate Credits	29		

Other Certificate Graduation Requirements:

- 2.0 minimum cumulative GPA at MCC upon completion of program
- For certificates of less than 12 credit hours, *all* required credits must be completed through MCC coursework. For all other certificates, one-half of the minimum credit hours required must be completed through MCC coursework.

- Completion of Intent to Graduate form
- Completion of end-of-program assessment as directed by this department for OCC 184 Landscape Management Certificate

For more information, contact the department chair: (815) 455-8750.

MANUFACTURING DESIGN TECHNOLOGY

Program Overview

The demand for manufacturing technicians exists throughout McHenry County and the entire country. Every phase of American life is dependent upon their efforts. Everything that is planned and fabricated, from airplanes to sewing machines, needs detailed designs that must first be tested and then brought into production. As our society becomes more automated and computer enhanced, the need for these semi-professionals will continue to increase.

Manufacturing design and engineering technicians are part of the engineer-scientist-technician team that designs and produces a variety of products. Assignments

include traditional drafting, Computer Aided Design (CAD), implementing engineering directives, material and product testing, and customer service.

Manufacturing Design Technology Certificate

The Manufacturing Design Technology certificate program provides a number of options. Students may wish to earn other related certificates in related manufacturing technologies, such as supervision or manufacturing processes. Or, students can continue studies and earn an Associate in General Education (AGE). Check with the department chair of Applied Technologies regarding goals and the future transferability of coursework.

Requirements for the Manufacturing Design Technology Certificate

Curriculum: OCC 172	Credit Hours		
Program Core	24	(3) AET 151 Computer Aided Design Graphics I (3) AET 152 Computer Aided Design Graphics II (3) IMT 100 Introduction to Manufacturing (3) IMT 102 Manufacturing Processes	(3) IMT 103 Materials of Industry (3) IMT 104 Blueprint Reading for Manufacturing (3) IMT 105 Intro to Machining and CNC (3) MAT 106 Technical Mathematics II
Program Electives 6 credit hours	6	(1-6) AET 299 Independent Study in Design Technology (3) CIS 110 Computer Literacy	
Total Certificate Credits	30		

Other Certificate Graduation Requirements:

- 2.0 minimum cumulative GPA at MCC upon completion of program
- For certificates of less than 12 credit hours, *all* required credits must be completed through MCC coursework. For all other certificates, one-half of the minimum credit hours required must be completed through MCC coursework.

- Completion of the Intent to Graduate form
- Completion of end-of-program assessment, as designated by this department

**For more information, contact the department chair:
(815) 479-7521**