



TURF AND TURFGRASS MANAGEMENT

Associate of Applied Science Degree

General Education Foundation (20 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (3/4 CR)

Statistics	OR	MAT 124	3
College Algebra		MAT 110	3

SOCIAL SCIENCE OR HUMANITIES (3 CR)

Choose from General Education course list (Social Science or Humanities)			3
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GENERAL EDUCATION ELECTIVES (8 CR)

General Biology I	AND	BIO 121	4
General Biology II	OR	BIO 122	4
General Chemistry I Lecture and Lab	AND	CHM 125/126	4
General Chemistry II Lecture and Lab		CHM 127/128	4

TURF AND TURFGRASS MANAGEMENT CORE (40 CR)

Introduction to Turf Management	LHT 101	3
Herbaceous Plants	LHT 108	3
Plant Science	LHT 110	3
Introduction to Horticulture	LHT 111	4
Landscape Plant Identification	LHT 114	3
Horticultural Soils	LHT 116	4
Plant Pest Management	LHT 215	4
Landscape Construction	LHT 231	3
Irrigation Systems	LHT 235	4
Cooperative Agricultural Experience	LHT 233	3
Landscape and Turf Installation	LHT 234	3
LHT Elective		3

TOTAL 60

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist for this program on the CCM website at www.ccm.edu/checksheets.

GARDEN CENTER

Certificate of Achievement		
Plant Science	LHT 110	3
Introduction to Horticulture	LHT 111	4
Landscape Plant Identification	LHT 114	3
Plant Pest Management	LHT 215	4
Herbaceous Plants	LHT 108	3
Business Elective		3

TOTAL 20

GROUNDS MAINTENANCE

Certificate of Achievement		
Plant Science	LHT 110	3
Introduction to Horticulture	LHT 111	4
Grounds Maintenance	LHT 124	3
Plant Pest Management	LHT 215	4
Horticultural Soils	LHT 116	4

TOTAL 18

LANDSCAPE CONTRACTOR

Certificate of Achievement		
Plant Science	LHT 110	3
Landscape Plant Identification	LHT 114	3
Landscape Design and Planning I	LHT 211	3
Horticultural Soils	LHT 116	4
Landscape Specifications and Estimating	BUS 205	3
Landscape Construction	LHT 231	3

TOTAL 19

LANDSCAPE DESIGN

Certificate of Achievement		
Herbaceous Plants	LHT108	3
Landscape Design and Planning I	LHT 211	3
Landscape Design and Planning II	LHT 212	3
Landscape Plant Identification	LHT114	3
Landscape Specifications and Estimating	BUS 205	3
Plant Science	LHT110	3

TOTAL 18

COUNTY COLLEGE OF MORRIS

LANDSCAPE AND HORTICULTURAL TECHNOLOGY



WHAT YOU WILL LEARN

The Landscape and Horticultural Technology (LHT) program at CCM offers three Associate of Applied Science (AAS) degrees and four Certificates of Achievement for creative individuals who like the outdoors and are committed to preserving the environment. The program includes a foundation in plant science, soils, plant identification and design to give the student a well-rounded study of ornamental horticulture.

- **Garden Center** Certificate of Achievement
- **Grounds Maintenance** Certificate of Achievement
- **Landscape Contractor** Certificate of Achievement
- **Landscape Design** Certificate of Achievement
- **Landscape Entrepreneur** Associate of Applied Science
- **Turf and Turfgrass Management** Associate of Applied Science

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CAREER OPPORTUNITIES:

- Arborist
- Garden Center Manager
- Golf Course Superintendent
- Horticultural Sales and Brokerage Associate
- Landscape Architect
- Landscape Contractor and Maintenance Professional
- Landscape Designer
- Nursery and Greenhouse Operator
- Public Garden Horticulturist
- Sports Field Manager

CONTACT INFORMATION

Professor Brian Oleksak
boleksak@ccm.edu
973-328-5363

Professor Craig Tolley
ctolley@ccm.edu
973-328-5363

Admissions
973-328-5100

Curriculum Checklist: www.ccm.edu/checksheets

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214 Center Grove Road, Randolph, NJ 07869 • 973-328-5000 • www.ccm.edu





WHY STUDY LANDSCAPE AND HORTICULTURE TECHNOLOGY AT CCM?

The CCM Landscape and Horticultural Technology Program is a well-regarded program that prepares students to be industry-ready or prepared to transfer to four-year institutions. The features that make the program unique include:

- Classes are held in a state-of-the-art LEED (Leadership in Energy and Environmental Design) building that emphasizes the department's commitment to sustainability.
- Small class sizes offer personal attention from faculty members.
- Courses are taught in both traditional and hybrid formats, day and night, sections to accommodate the busy working student.
- Students gain valuable production experience working in three greenhouses producing poinsettias, annuals, perennials, vegetables and herbs.
- The courses emphasize a hands-on approach to learning that include the operation of various pieces of landscape construction and maintenance equipment.

The LHT Program is affiliated with the National Association of Landscape Professionals, The New Jersey Nursery Landscape Association, The New Jersey Landscape Contractors Association, New Jersey Turfgrass Association and New Jersey Sports Field Managers Association.

Prospective students will find a variety scholarship opportunities geared directly toward those enrolled in the LHT Program.

FACULTY

The LHT courses are taught by a group of highly qualified full-time and adjunct faculty members who have significant experience in their respective disciplines.

- **Brian Oleksak, Associate Professor, Department Chairperson**
Professor Oleksak serves as chair of the LHT Department. He holds a Bachelor of Science in Agronomy from The Pennsylvania State University and a Master of Science degree in Ornamental Horticulture from The Ohio State

University. Professor Oleksak has experience in landscape installation and maintenance, garden center management, greenhouse and nursery production and plant propagation. He is responsible for teaching CCM's plant identification courses, horticultural soils, arboriculture and botany. Professor Oleksak's professional interests include woody and herbaceous plant materials, invasive species, landscape ecology and human issues in horticulture.

- **Craig Tolley, Assistant Professor**

Professor Tolley holds a Bachelor of Science and Master of Science in Plant Biology from Rutgers University. He is a member of a number of professional associations including the New Jersey Sports Field Managers Association and the New Jersey Turfgrass Association. His teaching responsibilities include courses in turfgrass management, irrigation, plant science and introductory horticulture. Professor Tolley serves as the faculty advisor for the LHT Student Nursey Landscape Club.

WHERE YOU CAN GO!

CCM graduates are industry-ready and will find employment opportunities with landscape design/build firms, nurseries, garden centers, golf courses, tree care companies and other green industry employers. Many have successfully started their own landscape management and design firms and have become leaders in the industry.

Credits earned at CCM are very transferable and allow students to achieve a quality education at an affordable price. Graduates of the LHT Program have successfully transferred to:

- Cornell University
- Penn State University
- Purdue University
- Rutgers University
- University of Maryland

and other universities offering horticulture, plant science and landscape design. The LHT department currently has an articulation agreement with Delaware Valley University in Doylestown, Pennsylvania enabling a smooth transition to a four-year institution upon graduation from CCM.

LANDSCAPE ENTREPRENEUR

General Education Foundation (20 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (11 CR)*

College Algebra	OR	MAT 110	3
Statistics		MAT 124	3
Biology of Environmental Concerns	OR	BIO 127	4
Introduction to Botany		BIO 129	4
Introductory Chemistry Lecture		CHM 117	3
Introductory Chemistry Lab		CHM 118	1

SOCIAL SCIENCE OR HUMANITIES (3 CR)+

Choose from General Education course list (Humanities or Social Science)			3
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SMALL BUSINESS CORE (12 CR)

Computerized Accounting	ACC 105	3
Small Business Operations	BUS 219	3
Principles of Marketing I	MKT 113	3

Choose 3 credits from the following:

Landscape Specifications and Estimating	BUS 205	3
Customer Relations	BUS 242	3
Social Media Marketing	MKT 208	3
Sales Principles and Practices	MKT 215	3
Advertising	MKT 218	3

LANDSCAPE AND HORTICULTURAL TECHNOLOGY CORE (28 CR)

Plant Science	LHT 110	3
Herbaceous Plant Identification	LHT 108	3
Landscape Plant Identification	OR LHT 114	3
Horticultural Computer Applications	LHT 115	3
Horticultural Soils	LHT 116	4
Grounds Maintenance	OR LHT 124	3
Arboriculture	OR LHT 130	3
Landscape Construction	OR LHT 231	3
Landscape Planning and Design I	LHT 211	3
Landscape Planning and Design II	LHT 212	3
Plant Pest Management	LHT 215	4
Internship Work Experience	LHT 227	2

TOTAL 60



LANDSCAPE MANAGEMENT AND DESIGN

Associate of Applied Science Degree

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COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (3 CR)

College Algebra	OR	MAT 110	3
Statistics		MAT 124	3

SOCIAL SCIENCE OR HUMANITIES (3 CR)

Choose from General Education Course list (Humanities or Social Sciences) 3

GENERAL EDUCATION ELECTIVES (8 CR)

Biology of Environmental Concerns	BIO 127	4
Introductory Chemistry Lecture	CHM 117	3
Introductory Chemistry Lab	CHM 118	1

LANDSCAPE MANAGEMENT AND DESIGN CORE (40 CR)

Herbaceous Plants	LHT 108	3
Introduction to Horticulture	LHT 111	4
Landscape Plant Identification	LHT 114	3
Horticultural Computer Software Applications	LHT 115	3
Horticultural Soils	LHT 116	4
Plant Pest Management	LHT 215	4
Irrigation Systems	LHT 235	4
Landscape Design and Planning I	LHT 211	3
Landscape Design and Planning II	LHT 212	3
Cooperative Agricultural Experience	LHT 233	3
Landscape Estimating and Specifications	BUS 205	3
LHT Elective		3

TOTAL 60

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