

LANDSCAPING

School of Applied Technologies

CONTACT INFORMATION

Program information is available from the School of Applied Technologies Office at (505) 224-3711 or from Academic Advisement and Career Development at (505) 224-4321

- Certificate of Completion in Landscape Construction Crew Leadership
- Certificate of Completion in Landscape Maintenance Crew Leadership

PROGRAM DESCRIPTION

The Landscaping Program provides students with skills for employment as construction or maintenance crew leaders in the original “GREEN Industry”, an industry that has been concerned with environmental issues at every level. This program lays the foundation through classes in Plant and Soil Science, Crew Leadership and Irrigation, and provides the student a solid understanding of the plant–soil–water relationship. The student then advances to second term courses focusing on either Landscape Construction or Maintenance.

SPECIAL REQUIREMENTS

Students will be required to purchase text books, hand tools, personal protective equipment, and any related certification exams. Students should also be able to lift and carry 50 pounds and enjoy working outdoors. Graduates entering the industry are generally expected to possess a current driver’s license with a clean driving record (no

DWI’s/DUI’s), a good work ethic and the ability to be a team player. Conversation Spanish skills are beneficial.

CAREER AND EDUCATIONAL OPPORTUNITIES

Graduates from the program can expect a variety of job opportunities from small self-employed shops to large organizations in the private and public sectors. This industry has a place for every graduate with a passion. Remember, the Landscape Industry IS the original “GREEN Industry” and this is your opportunity to make a positive influence on every aspect of your environment.

Exit competencies for this program of study are available at cnm.edu/exitcomp

For the graduation policy refer to page 46 of the 2009-2011 Catalog, cnm.edu or the Students tab in myCNM.

COURSE PREREQUISITE(S)

COURSE	ACCUPLACER SCORE OR EQUIV.
MATH 0550 Basic Mathematics or Arithmetic score of	31

Students should see an academic advisor to customize their educational plans. Students must meet prerequisites by placement scores or specific course work. Please see Course Descriptions for prerequisite(s) information.

See page 12 of the 2009Catalog for Accuplacer score equivalencies.

RECOMMENDED SEQUENCE OF COURSES

COURSE	CREDIT HOURS
TERM 1	
LAND 1121 Plant Science	3
LAND 1221 Soil Science	3
LAND 1321 Comprehensive Irrigation Techniques.....	2
LAND 1501 Landscape Design.....	3
LAND 1701 Crew Leadership.....	2
ESH 2006 Occupational Safety for Construction I.....	1
TERM 2	
LAND 2110 Landscape Construction.....	3
LAND 2130 Light Truck & Trailer Operation.....	2
LAND 2140 Construction Equip. Safety & Fundamentals.....	2
LAND 1301 Irrigation Design.....	3
PLMB 1205 Backflow Prevention.....	2

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TERM 1	
LAND 1121 Plant Science	3
LAND 1221 Soil Science.....	3
LAND 1321 Comprehensive Irrigation Techniques.....	2
LAND 1501 Landscape Design.....	3
LAND 1701 Crew Leadership.....	2
ESH 2006 Occupational Safety for Construction I.....	1
TERM 2	
LAND 1421 Weed & Pest Control.....	3
LAND 2120 Landscape Maintenance.....	3
LAND 2130 Light Truck & Trailer Operation.....	2
LAND 2150 Effective Irrigation Scheduling.....	3
PLMB 1205 Backflow Prevention.....	2

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Course Descriptions

LAND – Landscaping

LAND 1121 – Plant Science **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces the fundamental principles of Horticulture. Covers plant nomenclature, plant classification, plant processes, propagation techniques, plant physiology, plant pathology and various uses of plant materials. (30 Theory + 37.5 Lab hours per term)

LAND 1221 – Soil Science **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces soil formation, physical, chemical and biological properties, soil water and air, soil fertility and plant nutrition with an emphasis on water conservation. (30 Theory + 37.5 Lab hours per term)

LAND 1301 – Irrigation Design **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Presents principles and techniques of irrigation design with an emphasis on water conservation. Introduces component identification, basic hydraulics, hydrostatics, hydrodynamics and system design and safety.

LAND 1321 – Comprehensive Irrigation Techniques **2**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces irrigation system hydraulics, component identification, assembly, diagnostics, maintenance and repair with emphases on water conservation, system performance and safety. (15 Theory + 37.5 Lab hours per term)

LAND 1421 – Weed & Pest Control **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces fundamental principles of Landscape Pest Management. Covers pest classification, identification and management principles; plant physiology and pathology, laws, chemical handling, and safety issues with emphases on environmental responsibility and stewardship. (30 Theory + 37.5 Lab hours per term)

LAND 1501 – Landscape Design **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Presents the fundamental principles of landscape design such as purpose, color, balance, symmetry, functionality and plant selection with an emphasis on water conservation and client involvement.

LAND 1701 – Crew Leadership **2**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces basic crew leadership skills including construction industry and organizations, team building, gender and minority issues, communication, motivation, problem solving, decision making, site safety and project control.

LAND 2110 – Landscape Construction **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Covers basic instruction in landscape construction techniques and materials and the safe operation and maintenance of power equipment commonly used in landscaping construction. (30 Theory + 37.5 Lab hours per term)

LAND 2120 – Landscape Maintenance **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Includes basic instruction in landscape maintenance techniques and the safe operation and maintenance of power equipment commonly used in the landscaping industries. (30 Theory + 37.5 Lab hours per term)

LAND 2130 – Light Truck & Trailer Operation **2**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Introduces light truck and trailer driving techniques, licensing requirements, evaluation of load/towing capacity, inspection of towing combinations, securing of cargo, loading and unloading, coupling and uncoupling of light duty trailers. (15 Theory + 37.5 Lab hours per term)

LAND 2140 – Construction Equipment Safety & Fundamentals **2**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Provides an overview of equipment operation, operator responsibilities and career opportunities. Includes basic principles of safety, engine operation, OSHA/NIOSH requirements, identification of equipment and basic operational techniques.

LAND 2150 – Effective Irrigation Scheduling **3**
(Prerequisite: Math 0550 or appropriate placement score, see page 12 of the CNM Catalog, or department approval.)
 Presents principles and techniques of competent irrigation auditing and scheduling utilizing generally accepted industry standards.