

# ARCHITECTURAL DESIGN TECH (ADT)

## ADT 105 # - Architectural Drafting I

**Units: 5**

Basic techniques of architectural drafting. Use of drafting room equipment. Emphasizes residential buildings and leads to completion of a full set of professional level working drawings. Four hours lecture and three hours lab.

*Term Offered: Spring and Fall*

## ADT 120 # - Introduction to Leed and Sustainable Building

**Units: 3**

This course will survey the Leadership in Energy and Environmental Design (LEED) construction methods, techniques, materials and associated points system. Discussions will include Green building and how they increase productivity, improve health, conserve the Earth's resources, and cost less to operate and maintain than standard construction types. Other areas to be discussed will include Sustainable Sites; Water Efficiency; Energy and Atmosphere; Materials and Resources; Indoor Environmental Quality; and Innovation and Design Process. Case studies will be examined and used to identify the specific construction methods, point accumulation and how it assists in conservation.

*Term Offered: Spring and Fall*

## ADT 168 # - Landscape Management I

**Units: 3**

Landscape Management I is the first of two courses designed for the nurseryman's certification. Material covered will be valuable to the homeowner as well as the professional. The on campus field trip gives hands-on demonstrations of how irrigation components are installed and how they function. This course presents the practical field knowledge needed to work within the landscape industry. This course will prepare the student with basic knowledge to continue with Landscape Management II.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 170 # - Soil Management

**Units: 3**

This course teaches the concepts that are used in the management of soils in landscape industry today. Techniques, standards and policies will be discussed that effect our usage of this resource. Basic laboratory work and field trips will be utilized to underscore the importance of earth's fundamental resource, what makes up this primary resource and how it can be utilized, maintained and conserved for future generations.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 174 # - Urban Tree Care I

**Units: 3**

This course covers the basics of tree care as it applies to trees in the urban environment. The semester will begin with biology of trees in order to help the student to understand why it is necessary to follow the practices that will be described throughout the class. Also, the biological portion of the class will increase the appreciation for trees, an understanding of the complex physiological processes that take place within trees will raise them from inanimate objects to fellow inhabitant and contributors to the environment in the urban setting. Completion of this course and Urban Tree Care II will provide the student with the resources necessary to prepare for the International Society of Arboriculture' Certification for Arborists Examination.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 178 # - Fundamentals of Horticulture

**Units: 3**

Introduction to horticulture practices including plant classification, plant structure, function, growth, propagation, development and limiting factors of growth. Two hours of lecture and three hours of laboratory each week.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 198 # - Special Topics in ADT

**Units: 0.5-6**

Various short courses and experimental classes covering a variety of subjects. The course will be variable credit of one-half to six depending on the class content and number of hours required. The course may be repeated for up to six credits.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 230 # - Mechanical and Electrical Equip for Buildings

**Units: 3**

Basic design computations and drafting concepts used in selection and layout of mechanical and electrical systems for buildings. Two hours lecture and three hour lab.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: ADT 105 or AAD 125.*

*Term Offered: Fall*

## ADT 245 # - Statics and Strength of Materials

**Units: 3**

This course provides students an introduction to the fundamental study of statics or external forces upon rigid bodies and how the internal strength of materials or stresses within a structural member react to various load conditions and applications. Students will study vector resultants, calculate equilibrium of forces, design truss solutions, analyze material stresses and strains and cover advanced topics including load tracing, deflection and calculating moment and shear force diagrams.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: MATH 108 or higher or qualifying Accuplacer.*

*Term Offered: Spring*

## ADT 256 # - Introduction to Land Use Planning

**Units: 3**

This class will discuss the establishment of goals, policy development and implementation of plans for land use in various geographic areas. The use of GIS/GPS systems for data gathering and analytical tools will be discussed as well as their use to track resource scarcity and environmental deterioration problems. This is a lecture class. It is the prerequisite to Advanced GIS/GPS for architects, engineers and planners.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Term Offered: Fall*

## ADT 270 # - Greenhouse Management

**Units: 3**

This course covers greenhouse management from the construction of the greenhouse itself, to the harvesting of the plants grown within it. Students will learn how to control the environment in the greenhouse, how to pasteurize soils and which are the best plants to propagate.

*Transferability: May not transfer towards an NSHE bachelor's degree*

## ADT 290 # - Intern in Arch Design Technology

**Units: 1-8**

A course designed wherein students will apply knowledge to real on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed all core and major requirements and have a 2.5 GPA. Contact the appropriate chairperson for an application, screening and required skills evaluation. Up to eight semester hour credits may be earned on the basis of 75 hours of internship for one credit. The course be repeated for up to eight credits.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: AAD 100.*

*Term Offered: AS NEEDED*