

# ARCHITECTURE AND DESIGN (AAD)

## **AAD 100 # - Introduction to Architectural Design** **Units: 3**

This is a survey course of the profession of design. Covered in this course is a discussion of the fields of Architecture, Landscape Architecture and Planning. Other design fields may be discussed as they relate to these professions. Topics may include types of firms and their specialties, what it takes to become a licensed practitioner for whom a design professional might work, salaries that might be achieved and the professional associations to which a design professional might belong.

*Term Offered: Spring and Fall*

## **AAD 101 # - Design with Nature** **Units: 3**

Introduces the concepts of natural systems and their influence on human activity and the living environment. Reviews the historical context and cultural adaptations and introduces the basic management and use of the natural systems. Reviews natural, biological, cultural and design management philosophies.

*Term Offered: Fall*

## **AAD 125 # - Construction Drawings and Detailing** **Units: 3**

Analysis of assembling and detailing for construction in the field of architecture and landscape architecture. Techniques for the production of construction details will be discussed and demonstrated. Visits to construction sites and professional offices.

*Term Offered: Spring and Fall*

## **AAD 180 # - Design Foundation I** **Units: 3**

Investigation of the elements, principles and theories of design in three dimensions. Emphasis placed upon principles of organization, principles of visual and geometric logic, design methodology and color theory. Completion of this course satisfies 25 hours of instruction toward completing the embedded human relations curriculum requirements, in accordance with Embedded Curriculum Guidelines Option A.

*Enrollment Requirements: Corequisite: AAD 181.*

*Term Offered: Fall*

## **AAD 181 # - Design Foundation I Discussion** **Units: 3**

Discussion of the elements, principles and theories of design in three dimensions. Emphasis placed upon principles of organization, principles of visual and geometric logic, design methodology and color theory. Completion of this course satisfies 20 hours of instruction toward completing the embedded human relations curriculum requirements, in accordance with Embedded Curriculum Guidelines Option A..

*Enrollment Requirements: Corequisite: AAD 180.*

*Term Offered: Fall*

## **AAD 182 # - Fundamentals of Design II** **Units: 3**

Design is the main focus of this class. The students will create order among visual elements. Each student will be challenged with a series of design problems that will advance their skills in spatial sequencing and design methodologies.

*Enrollment Requirements: Prerequisite: AAD 180 and AAD 181. Corequisite: AAD 183.*

*Term Offered: Spring*

## **AAD 183 # - Fundamentals of Design Discussion II** **Units: 3**

Design theories and principles will be researched, analyzed and applied to either site specific projects or with the actual construction of full scale forms.

*Enrollment Requirements: Prerequisite: AAD 180 and AAD 181. Corequisite: AAD 182.*

*Term Offered: Spring*

## **AAD 198 # - Special Topics in AAD** **Units: 0.5-6**

This course will explore the study of special relevant topics in the profession of design. This course includes discussion of the fields of Architecture, Landscape Architecture, or Sustainable Planning and other related design professions. Topics may include, type of education and skills necessary, the specialties of each profession, what it takes to become a licensed practitioner, and might be seen as the future of these professions.

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

*Enrollment Requirements: Prerequisite: AAD 100.*

*Term Offered: AS NEEDED*

## **AAD 201 # - History of the Built Environment** **Units: 3**

This course will review the built form of architecture and urban design from various cultures and civilizations throughout history. Specific periods of study include the Ancient World, the Medieval Period, the Renaissance and Modern Times. Historical events along with developments in architecture of non-western civilizations that have shaped philosophies, cultures and civilizations will also be discussed. Same as course as HUM 201. Satisfies TMCC Diversity requirement.

*Enrollment Requirements: Prerequisite: ENG 98 or equivalent placement score.*

*Term Offered: Spring and Fall*

## **AAD 202 # - Analysis of the Built Environment** **Units: 3**

This course will discuss the history of architecture and city design in western and non-western civilization. The time periods to be covered will be from classical Greek, Hellenistic and Roman, through the Romanesque period, including the events and architecture of non-western civilizations happening within the same time frame. The influences that the architecture and design philosophies have had on the shaping of civilization will also be discussed. What civilization reflects through its architecture during these periods will be examined.

*Term Offered: Spring*

## **AAD 223 # - Graphic Software for Arch, Const, Dsgnr, Planners** **Units: 3**

Application of graphic software packages for presentation techniques. Emphasis will be placed upon the preparation of materials for a portfolio.

*Enrollment Requirements: Prerequisite: AAD 180 and AAD 181. Corequisite: AAD 280.*

*Term Offered: Fall*

## **AAD 230 # - Design with Climate** **Units: 3**

This course will prepare the student with the basic knowledge in the following areas of solar design history, solar procession, climatological data for Reno and northern Nevada, energy reflection, transmission and absorption, heat transfer, heat storage, types of collector systems and their sizing as it relates to architecture.

*Term Offered: Spring*

## **AAD 257 # - Plant Materials** **Units: 3**

This course will identify the plants that will grow in this climate. The student will be given characteristics of the plants, soil adaptation, cultural needs, use of those plants in the landscape.

*Term Offered: Fall*

**AAD 265 # - Computer Applications in Architecture I**                      **Units: 3**

Advanced work in computer-aided drafting and design. Includes development of speed, understanding of CAD techniques and logic and the understanding of office environment that incorporates CAD as a drafting alternative.

*Enrollment Requirements: Prerequisite: AAD 223 and AAD 280. Corequisite: AAD 282.*

*Term Offered: Spring*

**AAD 280 # - Fundamentals of Architecture Design I**                      **Units: 3**

This course explores the elements, principles, and theories of design as applied to projects in various media. It emphasizes integration of design principles with the properties of wood, concrete, steel, glass, masonry and other construction materials. Consideration of environmental and climatic conditions and determinants is also discussed.

*Enrollment Requirements: Prerequisite: AAD 180 and AAD 181. Corequisite: AAD 223.*

*Term Offered: Fall*

**AAD 282 # - Fundamentals of Architecture Design II**                      **Units: 3**

Discussion of the elements, principles and theories of design. Emphasis is placed upon integration of design principles to urban landscapes, buildings, interiors, furnishings and environmental graphic applications.

*Enrollment Requirements: Prerequisite: AAD 280. Corequisite: AAD 265.*

*Term Offered: Spring*