

Department of Art & Architecture
Architecture and Community Design

Program Goals and Outcomes

To allow for achievement (completion of established course objectives) and improvement (an increased ability to satisfy course objectives) over mere effort.

Program Goal	Outcome(s)
<p>1. Students will gain a broad understanding of the historic development of architecture and cities and an overview of theories, analyses and criticisms related to historical buildings, landscapes and cities.</p> <p>(History of Architecture 1, 2, 3, 4)</p>	<p>a) Demonstrate a broad understanding of the development and trajectory of architectural history from prehistoric to contemporary times.</p> <p>b) Demonstrate a broad understanding of the concepts and terminology related to urban and architectural history.</p> <p>c) Demonstrate ability to identify and describe the key developments in the history of architecture, landscape architecture and urban design.</p>
<p>2.</p> <p>a) Students will gain an understanding of basic visual principles, concepts, and modes of architectural representation.</p> <p>b) Students will learn to observe, analyze and represent the built environment.</p> <p>c) Students will learn concepts of space planning, spatial and formal expression.</p> <p>d) Students will obtain an understanding of structure and material in design and construction of buildings.</p> <p>e) Students will understand the role of society and culture in the process of architectural design.</p> <p>(Architecture Studio 1, 2, 3, 4, 5, CAD 1, CAD 2)</p>	<p>a) Demonstrate knowledge of the key methods of visual representation.</p> <p>b) Demonstrate competence in using freehand and hard-line drafting, as well as three-dimensional model making as a component of visual communication.</p> <p>c) Demonstrate understanding of design methodologies and competence with architectural design.</p> <p>d) Demonstrate understanding of the fundamental concepts structure and materials in architectural design.</p> <p>e) Demonstrate strategies that promote cultural identity and human wellbeing.</p>
<p>3. Students will gain knowledge and understand the importance of using architectural skills to work with diverse communities both locally and internationally to create positive social change in the built environment.</p> <p>(Architecture Studio 7, International Projects)</p>	<p>a) Identify and describe the key concepts and working methods in the history and theory of community related architectural practice.</p> <p>b) Demonstrate an ability to effectively use different methods of community engagement toward solving urban and architectural design problems.</p> <p>c) Demonstrate an ability to effectively apply culturally sensitive architectural solutions to underserved communities.</p>
<p>4. Students will learn about the various factors that affect the relationship of ecology and environment to cities and buildings.</p> <p>(Sustainable Design, Architecture Studio 4, Introduction to Construction Materials)</p>	<p>a) Demonstrate a clear grasp of the concepts of climatology as it relates to architectural design.</p> <p>b) Demonstrate an understanding of the macro concepts of ecology and environment.</p> <p>c) Demonstrate an understanding of passive and energy efficient heating and cooling.</p>

5.

Students will be introduced to the concepts and methods of civil and structural engineering.

(Concepts in Physics, Intro to Structural Engineering, Intro to Construction Materials, Architecture Studio 4)

- a) Demonstrate an understanding of the principles of statics and mechanics.
- b) Demonstrate an understanding of the interdependence of engineering and architectural design.
- c) Demonstrate an ability to analyze research data, and clearly communicate engineering concepts verbally and graphically.
- d) Distinguish between sustainable and non-sustainable choices in building materials and processes, in order to ensure appropriate decision-making.