

# Program SLOs Architecture

A.S. – Architecture

Certificate of Achievement – Architectural Technology

Certificate of Proficiency – Green Buildings: Environmental Design, Energy Management & Performance  
Based Construction

<b>Architecture Program Student Learning Outcomes from the 2015 PrOF (Program Review) Update</b>			
1	Program Student Learning Outcome (P-SLO)	<b>Critical Thinking and Problem Solving</b>	<ul style="list-style-type: none"> <li>Have the necessary technical knowledge and reasoning skills to identify, articulate, record information, assess evidence, investigate precedents and solve problems pertaining to the built environment and perform the tasks required within the architecture and environmental design professions. This includes the ability to use basic formal organizational and environmental principles; build abstract relationships to inform two and three-dimensional design; and understand the impact of ideas based on research, analysis of multiple theoretical, social, political, economic, cultural and environmental contexts.</li> </ul>
2	Program Student Learning Outcome (P-SLO)	<b>Communication</b>	<ul style="list-style-type: none"> <li>Have the necessary communication skills, using a diverse range of techniques and media to think about and convey architectural ideas including writing; analytical and envisioning drawing; speaking to peers and groups; computer modeling and physical model-making.</li> </ul>
3	Program Student Learning Outcome (P-SLO)	<b>Integrated Building Practices, Technical Skills and Knowledge</b>	<ul style="list-style-type: none"> <li>Be able to comprehend the technical aspects of design, systems, sustainability, constructability, and materials, and be able to apply this comprehension to architectural solutions. This includes:               <ol style="list-style-type: none"> <li>1. Site Design: Ability to respond to site determinants such as context and planning issues in the development of a project design.</li> <li>2. Life Safety: Ability to apply basic principles of life-safety systems and exiting.</li> <li>3. Environmental Systems: Understanding the principles of environmental control systems and sustainable design.</li> <li>4. Structural Systems: Understanding the basic principles of structural behavior in withstanding gravity and lateral loads and the appropriate structural alternatives.</li> <li>5. Building Envelope Systems: Understanding of the basic principles of building materials and characteristics in the appropriate selection relative to performance,</li> </ol> </li> </ul>

			aesthetics, moisture control, energy and durability.
4	Program Student Learning Outcome (P-SLO)	<b>Ethics and Social Responsibility</b>	<ul style="list-style-type: none"> <li>Have the values of ethics and understanding of historical, cultural, human, aesthetic, environmental, public health and social issues to be able to affect creative change. This includes understanding the diverse needs, values, behavioral norms, physical abilities, social and spatial patterns that characterize different cultures and individuals.</li> </ul>
5	Program Student Learning Outcome (P-SLO)	<b>Teamwork and Contribution</b>	<ul style="list-style-type: none"> <li>Be able to work effectively as a team member or as an individual.</li> </ul>
6	Program Student Learning Outcome (P-SLO)	<b>Life-long learning</b>	<ul style="list-style-type: none"> <li>Have the professional attitude and desire for life-long learning. This includes developing habits of research, precedent, and independent learning</li> </ul>

### **Certificate - Green Buildings Student Learning Outcomes\***

**SLO 1** Establish meaningful ethical, social and environmental objectives for buildings and communities based on the values of energy and resource conscious design.

- Compare and contrast societal and economic implications of utilizing renewable and non-renewable energy sources.
- Compare and contrast the effect of contextual issues and evaluate their impact on energy consumption, environment and the beneficial experience of interior and exterior spaces.

**SLO 2** Identify and articulate issues related to the choice of various building, landscape and environmental systems; ideate responsive solutions; and compare the alternatives in making effective, sustainable decisions.

- Analyze and calculate energy use to make informed, environmentally-sound and economic choices to satisfy human needs for comfort and aesthetics.
- Explain the concepts of resource conservation and waste reduction and make sustainable design choices related to materials and construction.
- Develop a comprehensive understanding of green rating systems, livable communities' strategies and the ability to apply these concepts in decision-making.

**SLO 3** Demonstrate independent learning, teamwork and continuing education habits that will help to encourage a lifelong pursuit of knowledge.

- To use a team work process to identify issues, analyze criteria, research and apply learned principles to synthesize solutions to specific design projects.
- To demonstrate habits of visual note making and independent research by developing a sketch and notebook to record learning.

\* Developed through the Curriculum Committee approval process.