

# AEC PROGRAM SLO'S

## General Topics

- |   |                                      |
|---|--------------------------------------|
| 1. Visualization and Graphic Representation       | 4. Industry CAD Software             |
| 2. Construction Materials, Products, and Systems  | 5. Employment and Career Preparation |
| 3. Construction Planning and Design Documentation | 6. General Education                 |

**Program Student Learning Outcomes:** Upon successful completion of the AEC program, the student will be able to...

1. Draw objects of various orientations as may be prescribed, draw sections and elevations of objects, and identify the relationships of objects or object features to demonstrate **visualization** proficiency.
2. Identify or describe the typical characteristics and uses of common **construction materials**, products, and systems, document them in drawings, and make appropriate selections based on design project requirements.
3. Under supervision of an industry professional, design a residence or small commercial building, and create required **construction drawings** and a materials estimate for it.
4. Use with reasonable efficiency the latest 2D and 3D **CAD software programs** to create industry-standard architectural and engineering drawings, both constructional and presentational.
5. Describe the AEC industry and careers within the industry, model habits and attitudes for success in professional employment, prepare and present a professional resume and portfolio, and demonstrate developed interviewing skills in **preparation for employment**.
6. Demonstrate **computation, communication, critical thinking, research, and problem-solving skills as well as a sensitivity and appreciation of diversity and community** to perform effectively as a team member in a professional, competitive, and diverse work environment and as a responsible member of the community.

**ASSESSMENT AND ACHIEVEMENT STANDARDS:** Proficiency and retention of course material related to the program learning outcomes vary from student to student depending on prior preparation, acquired study habits, native intelligence, motivation, effort, concentration, and other factors. Therefore percentages are established to express the degree to which students achieve or demonstrate the outcomes at the times when assessments are made. A student must score an average of 60% of the total of scores available to successfully meet the standards.

Levels of achievement are delineated as follows:

ACHIEVEMENT	GRADE POINTS	POINTS	LETTER GRADE
90% - 100%	3.50 – 4.25 (A+)	90% - 100% of total pts available	A
80% - 89%	2.50 – 3.49	80% - 89% of total pts available	B
70% - 79%	1.50 – 2.49	70% - 79% of total pts available	C
60% - 69%	1.00 – 1.49	60% - 69% of total pts available	D
00% - 59%	0.00 – 0.99	00% - 59% of total pts available	F