

Learning Outcomes: Building Construction Technology

❖ **Building Construction Technology, Degree**

- Engage in effectively interpersonal, oral, visual, and in written communication.
- Solve mathematical problems and equations utilizing algebraic and trigonometric functions.
- Demonstrate basic drafting proficiency, including the ability to use industry-standard computer software to generate 2D and 3D drawings.
- Demonstrate fundamental knowledge of the systems and processes used to construct the built environment, including an understanding of industry terminology.
- Demonstrate basic competency in the use of surveying data collectors, calculating angles, and field book procedures, and describe their importance in construction reconnaissance.
- Estimate the costs for labor, materials, and equipment for a construction project using industry-standard software and procedures.
- Develop a schedule of activities for a construction project, determine the critical path, and identify methods of compressing the completion time.
- Work in a team environment to analyze existing building types, develop a list of programmatic requirements, sketch a schematic design, and use this information to develop drawings and models sufficient to present a competent architectural design solution.

❖ **Building Construction Specialist, College Credit Certificate**

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- Estimate the costs for labor, materials, and equipment for a construction project using industry-standard software and procedures.
- Develop a schedule of activities for a construction project, determine the critical path, and identify methods of compressing the completion time.