

*ABET Course Syllabus***Course Information, Textbook and Supplementary Materials**

**Course Description:** Theory of estimating. Quantity surveying; unit cost synthesis and analysis. Bid organization and preparation; competitive simulations and exercises.

**Elective for:** BSCE and BSCE Structural

**Prerequisites:** none

**Co-Requisite:** none

**Required Textbook:** Dagostino, Frank R. and Leslie Feigenbaum. *Estimating in Building Construction*. 6<sup>th</sup> ed. Prentice Hall, 2003.

**Reference:** none

Topics Covered	Learning Outcomes
Contractor specialties	Students will have learned: <ol style="list-style-type: none"> <li>1. Plan Reading</li> <li>2. Computer-Assisted Estimating</li> <li>3. Specifications</li> <li>4. Equipment</li> <li>5. Earthwork</li> <li>6. Concrete</li> <li>7. Rough Lumber</li> <li>8. Finish Materials</li> <li>9. Plumbing</li> <li>10. Electrical</li> <li>11. HVAC</li> <li>12. Profit</li> </ol>
Professional skills	<ol style="list-style-type: none"> <li>13. Construction estimating</li> <li>14. Ethics</li> <li>15. To differentiate various ethical behaviors</li> <li>16. The Code of Ethics</li> </ol>
Networking	<ol style="list-style-type: none"> <li>17. How to join professional organizations (AGC, ASCE, etc.)</li> <li>18. How to attend professional conferences, meetings, symposia, etc.</li> <li>19. About professional registration</li> </ol>

Principles of construction estimating	20. Construction vocabulary 21. Critical path method 22. Unbalancing 23. The construction process
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**CE 461**

**General Construction Estimating**

**3 Units**

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Lecture and Lab Schedule			
Lecture		Lab	
Sessions per Week	Duration per Session	Sessions per Week	Duration per Session
1	3 hours	n/a	

**Relation of Course Objectives to Program Outcomes**

The Civil Engineering program is designed to teach beyond the technical content of the curriculum and prepare the students to utilize what they learn in a professional setting.

This course does not contribute to the program outcome.

Course Contribution to Program Outcomes (a-k)	✓ Key
N/A	

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