

**Course number:** CMT 234

**Course title:** Cost Estimating/Planning

**Campus location(s):** Dover, Georgetown, Stanton

**Effective semester:** 201951

**Core Course Performance Objectives**

1. Compute practical geometry used to estimate building material quantities. (CCC 2, 4, 6, 7; PGC 1, 2, 5)
2. Measure, calculate, and convert various units of measure. (CCC 2, 4, 6; PGC 1, 2, 4)
3. Read and interpret architectural and engineering construction documents. (CCC 2, 6; PGC 1, 2)
4. Classify methods of cost estimating for different project phases. (CCC 2, 4, 6; PGC 1, 2, 5)
5. Predict impacts of indirect costs and site, economic, and weather conditions on preparing construction estimates and schedules. (CCC 1, 2, 4, 6; PGC 1, 2, 3, 5)
6. Calculate items of site work, excavation, and landscaping. (CCC 2, 4, 6; PGC 1, 2, 4, 5)
7. Analyze and calculate material quantities using the Construction Specification Institute (CSI) MasterFormat. (CCC 2, 6; PGC 1, 2, 4)
8. Categorize and compute quantities and costs of labor and equipment. (CCC 2, 4, 6; PGC 1, 2, 4)
9. Prepare checklists and complete a construction estimate and schedule for a typical wood-frame residence. (CCC 1, 2, 4, 6; PGC 1, 2, 3, 4, 5)
10. Use standard industry references, information resources, and software to prepare cost estimates and schedules. (CCC 1, 2, 4, 5, 6; PGC 1, 2, 3, 5)
11. Demonstrate professional and ethical conduct as expected in industry. (CCC 1, 2, 3, 4, 5, 6; PGC 3, 5)

**Summative Evaluations**

*Please note: All courses must have a* ***minimum******of four*** *summative evaluation measures, and those measures should include a variety evaluation methods (e.g., test, oral presentation, group project).* ***Please list all summative evaluation measures.*** *In addition to these summative measures, a variety of formative exercises/quizzes/other assignments should be used to guide instruction and learning* *but do not need to be included on this template.*

*For each measure, please include a scope of the assignment: for example, if requiring a research paper, include the range of required number of words and numbers and types of sources; for a test, include the types and numbers of questions; for a presentation, include the minimum and maximum time, and so on.*

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| **Evaluation Measures:** Include each agreed upon measure and scope of that measure (see above). | **Which CCPO(s) does this evaluation measure?**  |
| **Test 1-** estimating practices & estimating methods, arithmetic and principles of measurement, general expenses and pricing the work.* Questions will be a mixture of true & false, word completion, short answer, and calculations.
* Selected from a pool of questions developed by instructors and the provided by the textbook publisher.
* Minimum of 25 questions.
* Only 1 attempt
* Open Book
 | 1, 2, 4, 5, 7, 10 |
| **Test 2 -** excavation and sitework and concrete work* Questions will be a mixture of true & false, word completion, short answer, and calculations.
* Selected from a pool of questions developed by instructors and the provided by the textbook publisher.
* Minimum of 25 questions.
* Only 1 attempt
* Open Book
 | 1, 2, 3, 6, 7, 8, 10 |
| **Test 3** – carpentry work* Questions will be a mixture of true & false, word completion, short answer, and calculations.
* Selected from a pool of questions developed by instructors and the provided by the textbook publisher.
* Minimum of 25 questions.
* Only 1 attempt
* Open Book
 | 1, 2, 3, 7, 8, 10 |
| **Course Project** - Residential Cost Estimate including excavation, concrete, wood framing, and sheathing material quantities, labor and equipment costs.Calculations must be shown in an excel workbook. | 1, 2, 3, 6, 7, 8, 9, 10, 11 |

**FINAL COURSE GRADE**

(Calculated using the following weighted average)

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| **Evaluation Measure** | **Percentage of final grade** |
| Chapter Tests (Summative, equally weighted) | 25% |
| Course Project (Summative) | 30% |
| Chapter Activities (including discussion boards for online classes) (Formative)  | 20% |
| Chapter Quizzes (Formative) | 10% |
| Course Project Preliminary Submissions (Formative) | 15% |
| TOTAL | 100% |

 (Electronic Signature Permitted)

**Submitted by (Collegewide Lead):** Heidi Gurdo Date: 5/15/2018

**[x]  Approved by counterparts**  Date:

**[ ]  Reviewed by Curriculum Committee**  Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_