

Rochester INSTITUTE OF TECHNOLOGY

Minor Program proposal form

College of Applied Science

and Technology

**Department of Civil Engineering Technology, Environmental Management and Safety**

**Name of Minor:** Construction Management

**Brief description of the minor to be used in university publications**

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| The Construction Management minor will broaden the learning experiences and professional opportunities of students in technical disciplines who have an interest in courses related to building construction, cost estimating, construction project management, and the business, management and technical aspects related to construction.  |

**1.0 Minor Program Approvals**

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| --- | --- | --- |
|  | Approval request date: | Approval granted date: |
| Academic Unit Curriculum Committee | 1-22-2012 | 1-22-2012 |
| College Curriculum Committee |  |  |
| Inter-College Curriculum Committee |  |  |

**2.0 Rationale:**

How is this set of academic courses related?

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| This sequence of construction management courses minor will provide students with a solid grounding in the elements of building construction, commonly used cost estimating techniques and programs, construction project management, construction business, management and various technical aspects related to construction. |

**3.0 Multidisciplinary involvement:**

If this is a multidisciplinary minor spanning two or more academic units, list the units and their role in offering and managing this minor.

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| N/A |

**4.0 Students ineligible to pursue this minor:**

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| Civil Engineering Technology undergraduate students are ineligible to pursue this minor. |

**5.0 Minor Program Structure, Sequence and Course Offering Schedule:**

Describe the structure of the proposed minor and list all courses, their anticipated offering schedule, and any prerequisites.

Narrative of Minor Program Structure:

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| The sequence of courses begins by familiarizing students with the various components of commercial and residential buildings, the components interaction with each other, and the interplay between owner, architect, builder, and others. It then introduces direct cost estimating for construction projects and covers aspects of construction project management. Students then choose two electives that coincide which best correspond to their construction management interest.This minor consists of 15 semester credit hours; it is a discipline-based minor, which includes one 100-level, two 400-level required courses and two 300 or 400-level elective courses. All courses are offered at least once each year. |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Course Number & Title | SCH | Required | Optional (Elective) | Fall | Spring | Annual/Biennial | Prerequisites |
| CAST-CVET-170 Elements of Building Construction | 3 | X |  |  | X | A | Acceptance in minor |
| CAST-CVET-461 Construction Cost Estimating I | 3 | X |  | X |  | A | CAST-CVET-170 |
| CAST-CVET-462 Construction Project Management | 3 | X |  |  | X | A | CAST-CVET-461 |
| CAST-CVET-463 Sustainable Building Design & Construction | 6 |  | X |  | X | A | CAST-CVET-170 |
| CAST-CVET-464 Construction Planning, Scheduling, and Control |  | X | X |  | A | CAST-CVET-461 |
| CAST-CVET-465 Contracts and Specifications |  | X |  | X | A | 4th year status |
| CAST-ESHS-325 Construction Safety |  | X | X |  | A | none |
| CAST-CVET-423 GIS for CETEMS |  | X |  | X | A | 4th year status |

|  |  |
| --- | --- |
| Total credit hours: | 15 |

**Minor Course Conversion Table: Quarter Calendar and Semester Calendar Comparison**

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| --- | --- |
| Name of Minor in Semester Calendar: | Construction Management |
| Name of Minor in Quarter Calendar: | Construction Management |
| Name of Certifying Academic Unit: | Civil Engin. Tech., Envir. Mgmt. and Safety |

**Minor Course Conversion Table: Quarter Calendar and Semester Calendar Comparison**

| **QUARTER: Current Minor Courses** | **SEMESTER: Converted Minor Courses** |
| --- | --- |
| Course # | Course Title | QCH | Course # | Course Title | SCH | **Comments** |
| 0608-422 | Elements of Building Construction | 4 | CAST-CVET-170 | Elements of Building Construction | 3 |  |
| 0608-509 | Construction Cost Estimating | 4 | CAST-CVET-461 | Construction Cost Estimating I | 3 |  |
| 0608-560 | Construction Project Management | 4 | CAST-CVET-462 | Construction Project Management | 3 |  |
| 0608-560 | Construction Project Management | 4 | CAST-CVET-464 | Construction Planning, Scheduling, and Control | 3 |  |
| 0608-544 | Contracts and Specifications | 2 | CAST-CVET-465 | Contracts and Specifications | 3 |  |
| 0633-504 | Construction Safety | 4 | CAST-ESHS-325 | Construction Safety | 3 |  |
|  |  |  | CAST-CVET-423 | GIS for CETEMS | 3 |  |
|  |  |  | CAST-CVET-463 | Sustainable Building Design & Construction | 3 |  |
| 0608-544 | Mechanical & Electrical Equipment for Bldgs. | 4 |  |  |  |  |
| 0608-460 | Construction Equipment | 2 |  |  |  |  |
| 0608-500 | Labor Relations | 2 |  |  |  |  |