

## CONSTRUCTION ENGINEERING MANAGEMENT TECHNOLOGY

(all courses are 3 credits unless otherwise noted)

| Semester 1 (16 cr.) |   | Semester 2 (15 cr.) |   |
|---------------------|---|---------------------|---|
| CEMT 10500          | Introduction to Construction Technology   | CEMT 10400          | Fundamentals of Surveying   |
| TECH 10200          | Discovering Technology (1 cr.)  | CEMT 11000          | Construction Accounting   |
| COMM R110           | Fundamentals of Speech Communication  | CEMT 12000          | Construction Materials and Systems  |
| ENG-W131            | Reading, Writing, and Inquiry   | TCM 22000           | Technical Report Writing  |
| MATH 15300          | College Algebra   | MATH 15400          | Trigonometry  |
| Cultural Under      | <a href="https://due.iupui.edu/undergraduate-curricula/general-education/iupui-general-education-core/cultural-understanding/index.html">https://due.iupui.edu/undergraduate-curricula/general-education/iupui-general-education-core/cultural-understanding/index.html</a> |                     |   |
| Semester 3 (17 cr.) |   | Semester 4 (15 cr.) |   |
| CEMT 21500          | Mechanical & Electrical Systems   | CEMT 16000          | Statics   |
| TCM 34000           | Correspondence in Business & Industry   | CEMT 28000          | Quantity Survey   |
| Science Elect       | CHEM C101&C121 or GEOL G107&G117 (4 cr.)  | ECON-E 201          | Microeconomics  |
| PHYS 21800          | General Physics (4 cr.)   | MATH 22100          | Calculus for Technology   |
| BUS-X 100           | Introduction to Business Administration   | Arts/Humanity       | <a href="https://due.iupui.edu/undergraduate-curricula/general-education/iupui-general-education-core/arts-humanities/index.html">https://due.iupui.edu/undergraduate-curricula/general-education/iupui-general-education-core/arts-humanities/index.html</a> |
| Semester 5 (15 cr.) |   | Semester 6 (15 cr.) |   |
| CEMT 26000          | Strength of Materials   | CEMT 27500          | Applied Civil Engineering Drafting  |
| CEMT 26700          | Materials Testing (2 cr.)   | CEMT 34100          | Construction Scheduling & Project Control   |
| CEMT 31200          | Construction and Route Surveying  | CEMT 34700          | Construction Contract Administration & Specifications   |
| CEMT 34200          | Construction Cost & Bidding   | CEMT 48400          | Wood, Timber & Formwork Design  |
| CEMT 39000          | Construction Experience III (1 cr.)   | Stat Elective       | STAT 30100, IET 15000, or PSYB 305  |
| BUS-L 203           | Commercial Law I  |                     |   |
| Semester 7 (15 cr.) |   | Semester 8 (12 cr.) |   |
| CEMT 33000          | Construction Field Operations   | CEMT 35000          | Construction Project Cost & Production Control  |
| CEMT 45200          | Hydraulics & Drainage   | CEMT 43000          | Soils and Foundations   |
| CEMT 45500          | Construction Safety & Inspection  | CEMT 44700          | Construction Project Management   |
| CEMT 48600          | Reinforced Concrete Design & Construction   | CEMT 49400          | Engineering Economics for Construction  |
| B/M Elective        | Business/Management Elective (refer to page 3)  |                     | <b>FALL 2018</b>  |

**Course Prerequisites are listed on the following page.**

| Course   | Prerequisites (P)   |
|--|---|
| CEMT 10400 - Fundamentals of Surveying                               | P: Math 15300 - College Algebra<br>Co-requisite: Math 15400 - Trigonometry  |
| CEMT 10500 - Introduction to Construction Technology                 | None  |
| CEMT 11000 - Construction Accounting                                 | None  |
| CEMT 12000 - Construction Materials and Systems                      | P: CEMT 10500 - Introduction to Construction Technology   |
| CEMT 16000 - Statics   | P: Math 15400 - Trigonometry  |
| CEMT 21500 - Mechanical and Electrical Systems                       | P: Math 15300 - College Algebra<br>P: CEMT 12000 - Construction Materials and Systems   |
| CEMT 26000 - Strength of Materials                                   | P: Math 15400 - Trigonometry<br>P: CEMT 16000 - Statics<br>Co-requisite: CEMT 26700 - Materials Testing   |
| CEMT 26700 - Materials Testing                                       | P: Math 15400 - Trigonometry<br>P: CEMT 16000 - Statics<br>Co-requisite: CEMT 26000 - Strength of Materials   |
| CEMT 27500 - Applied Civil Engineering Drafting                      | P: Math 15300 - College Algebra<br>P: CEMT 12000 - Construction Materials and Systems   |
| CEMT 28000 - Quantity Survey   | P: Math 15300 - College Algebra<br>P: CEMT 12000 - Construction Materials and Systems   |
| CEMT 31200 - Construction and Route Surveying                        | P: CEMT 10400 - Fundamentals of Surveying   |
| CEMT 33000 - Construction Field Operations                           | P: CEMT 12000 - Construction Materials and Systems<br>P: Junior Standing  |
| CEMT 34100 - Construction Scheduling and Project Control             | P: CEMT 34200 - Construction Cost & Bidding   |
| CEMT 34200 - Construction Cost and Bidding                           | P: CEMT 28000 - Quantity Survey   |
| CEMT 34700 - Construction Contract Administration and Specifications | P: CEMT 12000 - Construction Materials and Systems<br>P: Junior Standing  |
| CEMT 35000 - Construction Project Cost & Production Control          | P: CEMT 34100 - Construction Scheduling & Project Control<br>Suggested Co-Requisite: CEMT 44700 - Construction Project Management                                       |
| CEMT 39000 - Construction Experience                                 | P: TCM 22000 - Technical Report Writing<br>P: TCM 34000 - Correspondence in Business & Industry   |
| CEMT 43000 - Soils and Foundations                                   | P: CEMT 26000 - Strength of Materials<br>P: CEMT 26700 - Materials Testing  |
| CEMT 44700 - Construction Project Management                         | P: CEMT 33000 - Construction Field Operations<br>P: CEMT 34100 - Construction Scheduling & Project Control<br>Suggested Co-Requisite: CEMT 35000 - Construction Project |

|  |   |
|--|---|
|  | Cost & Production Control   |
| CEMT 45200 - Hydraulics and Drainage                   | P: CEMT 26000 - Strength of Materials   |
| CEMT 45500 - Construction Safety and Inspection        | P: CEMT 34700 - Construction Contract Administration & Specifications<br>P: Junior standing |
| CEMT 48400 - Wood, Timber & Formwork Design            | P: CEMT 26000 - Strength of Materials   |
| CEMT 48600 - Reinforced Concrete Design & Construction | P: CEMT 48400 - Wood, Timber & Formwork Design  |
| CEMT 49400 - Engineering Economics for Construction    | P: CEMT 34200 - Construction Cost & Bidding   |

| <b>Business / Management Elective Courses (all are 3 credits)</b> |
|---|
| BUS-F 300: Introduction to Financial Management                   |
| BUS-M 300: Introduction to Marketing                              |
| BUS-P 300: Introduction to Operations Management                  |
| BUS-D 301: The International Business Environment                 |
| BUS-Z 302: Managing and Behavior in Organizations                 |
| BUS-Z 340: Personnel - Human Resources Management                 |
| OLS 30200: Leadership and Economic Aspects of Sustainability      |
| OLS 32700: Leadership for a Global Work Force                     |
| OLS 32800: Principles of International Management                 |
| OLS 36800: Personnel Law  |
| OLS 37100: Project Management                                     |
| OLS 37500: Training Methods                                       |
| OLS 37800: Labor Relations  |
| OLS 38300: Human Resource Management                              |
| OLS 42300: Go Green Germany                                       |
| OLS 45400: Gender and Diversity in Management                     |
| OLS 47600: Compensation Planning and Management                   |
| OLS 47900: Staffing Organizations                                 |