



ASSOCIATE OF APPLIED SCIENCE

CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION MANAGEMENT MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-06.

1718 Catalog

Effective Summer 2017

4204

Engineering Technologies Division

Engineering Technology Department

| TECHNICAL Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------|------------------------|
| CET125 or CET222 | Soil Mechanics ▲ or Concrete and Asphalt Testing ▲ | 3 or 3 | (MTH125 or MTH135) and MET124 (MTH125 or MTH135) and CET121 | |
| CET223 | Structural Design I ▲ | 3 | MET124 | |
| CET225 | Sustainable Building Service Systems ▲ | 3 | CET121 and MTH135 | |
| CET226 | Estimating ▲ | 3 | (MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237) | |
| CET227 | Surveying I | 3 | MTH125 or MTH135 | |
| CET232 | Land Planning and Design ▲ | 3 | CET227 and (CET122 or CET124 or DET125) | |
| CET235 | Construction Management, Job Cost and Safety ▲ | 3 | CET121 and ITD122 | |
| CET236 | Global Positioning System ▲ | 3 | CET227 | |
| CET237 | Interpreting Construction Documents | 3 | | |
| CET239 | Building Code Applications ▲ | 3 | CET121 and (CET237 or CET122) | |
| Total | | 30 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> | |
| CET121 | Building Materials and Construction Methods | 3 | | |
| DET125 | Basic AutoCAD | 3 | | |
| ENG124 | College Composition^ | 3 | ENG011 or Proficiency | |
| ENG221 | Technical Report Writing | 3 | ENG124 | |
| ITD122 | Computer Applications for Professionals^ | 3 | ITD100 or Proficiency | |
| MET124 | Statics and Strength of Materials | 4 | Pre-Co-PHY121 or Pre-Co-PHY221 | |
| MTH135 | Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. | 5 | (MTH093 and MTH094) or Proficiency | |
| PHY121 | College Physics I with Algebra (lab)^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency | |
| | Select one (1) Arts & Humanities Elective from the list below. ¹ | 3 | <i>Check for prerequisites</i> | |
| Total | | 32 | | |
| TOTAL CREDIT HOURS | | 62 | | |

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

▲Course offerings vary by semester. Please see your academic advisor for availability.

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| 1718 Catalog Effective Summer 2017 | CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION MANAGEMENT MAJOR | 4204 |
|----------------------------------------------|----------------------------------------------------------------------------------|-------------|

PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

| <u>First Semester</u> | | <u>Credit Hours</u> | <u>Pre- or Co-requisites</u> |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| ENG124 | College Composition^ | 3 | ENG011 or Proficiency |
| MTH135 | Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i> | <u>5</u> | (MTH093 and MTH094) or Proficiency |
| | | 9 | |
| <u>Second Semester</u> | | | |
| CET121 | Building Materials and Construction Methods | 3 | |
| CET237 | Interpreting Construction Documents | 3 | |
| ITD122 | Computer Applications for Professionals^ | <u>3</u> | ITD100 or Proficiency |
| | | 9 | |
| <u>Third Semester</u> | | | |
| CET227 | Surveying I | 3 | MTH125 or MTH135 |
| PHY121 | College Physics I with Algebra (lab)^ | <u>4</u> | MTH135 or (MTH125 and MTH130) or Proficiency |
| | | 7 | |
| <u>Fourth Semester</u> | | | |
| MET124 | Statics and Strength of Materials | 4 | Pre-Co-PHY121 or Pre-Co-PHY221 |
| DET125 | Basic AutoCAD | <u>3</u> | |
| | | 7 | |
| <u>Fifth Semester</u> | | | |
| CET232 | Land Planning and Design▲ | 3 | CET227 and (CET122 or CET124 or DET125) |
| CET235 | Construction Management, Job Cost and Safety▲ | 3 | CET121 and ITD122 |
| CET223 | Structural Design I▲ | <u>3</u> | MET124 |
| | | 9 | |
| <u>Sixth Semester</u> | | | |
| CET225 | Sustainable Building Service Systems▲ | 3 | CET121 and MTH135 |
| CET125 | Soil Mechanics▲ | 3 | (MTH125 or MTH135) and MET124 |
| or | or | or | |
| CET222 | Concrete and Asphalt Testing▲ | <u>3</u> | (MTH125 or MTH135) and CET121 |
| | | 6 | |
| <u>Seventh Semester</u> | | | |
| ENG221 | Technical Report Writing | 3 | ENG124 |
| <i>Arts & Humanities Elective¹</i> | | <u>3</u> | <i>Check for prerequisites</i> |
| | | 6 | |
| <u>Eighth Semester</u> | | | |

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|----------------------------------------------|----------------------------------------------------------------------------------|-------------|
| 1718 Catalog Effective Summer 2017 | CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION MANAGEMENT MAJOR | 4204 |
|----------------------------------------------|----------------------------------------------------------------------------------|-------------|

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|--------|-----------------------------|-----------|----------------------------------|
| CET236 | Global Positioning System▲ | 3 | CET227 |
| CET239 | Building Code Applications▲ | 3 | CET121 or CET237 or CET122 |
| CET226 | Estimating▲ | 3 | (MTH125 or MTH135) and CET121 |
| | | | and ITD122 and (CET122 or |
| | | | DET125 or CET237) |
| | | 9 | |
| | TOTAL CREDITS | 62 | |

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

▲Course offerings vary by semester. Please see your academic advisor for availability.