

# Civil Engineering Technology - Surveying Major

## Engineering & Information Technologies

2020-2021 Curriculum

| Course     | Title                                            | Pre-Reqs | Lec | Lab | Credit Hours |
|------------|--------------------------------------------------|----------|-----|-----|--------------|
| Semester 1 |                                                  |          |     |     |              |
| CET-100    | Introduction to Civil Engineering Technology     |          | 2   | 2   | 3            |
| CET-105    | Introduction to Surveying                        |          | 2   | 3   | 3            |
| CET-115    | Architectural Drafting and Computer Aided Design |          | 2   | 4   | 4            |
| FYE-1XX    | First Year Experience Elective                   |          | 1   | 0   | 1            |
| MAT-125    | Algebra & Trigonometry                           |          | 3   | 2   | 4            |
|            |                                                  |          |     |     | 15           |

|            |                                                    |                        |   |   |    |
|------------|----------------------------------------------------|------------------------|---|---|----|
| Semester 2 |                                                    |                        |   |   |    |
| CET-110    | Advanced Surveying and Construction Layout         | CET 105                | 2 | 3 | 3  |
| CET-120    | Advanced Computer Aided Design: Revit Architecture | CET 115                | 3 | 3 | 4  |
| CET-125    | Statics and Strength of Materials (CET)            | MAT 121                | 3 | 3 | 4  |
| ENG-101    | English Composition 1                              |                        | 3 | 0 | 3  |
| MAT-126    | Functions & Calculus                               | MAT 125 (min. grade C) | 3 | 2 | 4  |
|            |                                                    |                        |   |   | 18 |

|            |                                           |                    |   |    |   |
|------------|-------------------------------------------|--------------------|---|----|---|
| Semester 3 |                                           |                    |   |    |   |
| CET-291    | Full-Time Cooperative Education 1: CET    | CET 100            | 1 | 40 | 2 |
| PHY-151    | Physics 1: Algebra and Trigonometry-Based | PHY 150 or MAT 125 | 3 | 3  | 4 |
|            |                                           |                    |   |    | 6 |

|                                                        |                              |         |   |   |    |
|--------------------------------------------------------|------------------------------|---------|---|---|----|
| Semester 4 These CET courses are only offered in 18/FA |                              |         |   |   |    |
| CET-250                                                | Route Location and Design    | CET 110 | 3 | 2 | 4  |
| CET-251                                                | Elements of Land Surveying 1 | CET 110 | 3 | 2 | 4  |
| CET-255                                                | Land Information Modeling    | CET 110 | 2 | 3 | 3  |
| ECO-110                                                | Principles of Macroeconomic  |         | 3 | 0 | 3  |
| ENG-10X                                                | English Composition Elective | ENG 101 | 3 | 0 | 3  |
|                                                        |                              |         |   |   | 17 |

|                                                        |                                        |         |   |    |    |
|--------------------------------------------------------|----------------------------------------|---------|---|----|----|
| Semester 5 These CET courses are only offered in 19/SP |                                        |         |   |    |    |
| CET-252                                                | Elements of Land Surveying 2           | CET 251 | 3 | 3  | 4  |
| CET-260                                                | Control Surveying                      | CET 110 | 3 | 3  | 4  |
| CET-292                                                | Full-time Cooperative Education 2: CET | CET 291 | 1 | 40 | 2  |
|                                                        |                                        |         |   |    | 10 |

|                                                        |                                         |         |   |   |    |
|--------------------------------------------------------|-----------------------------------------|---------|---|---|----|
| Semester 6 These CET courses are only offered in 19/SU |                                         |         |   |   |    |
| CET-265                                                | Subdivision Design and Drainage Control | CET 255 | 3 | 3 | 4  |
| CET-290                                                | CET Surveying Capstone                  | CET 251 | 1 | 6 | 3  |
| COMM-110                                               | Public Speaking                         | ENG 101 | 3 | 0 | 3  |
|                                                        |                                         |         |   |   | 10 |
| Total                                                  |                                         |         |   |   | 76 |

English Composition Elective: ENG 102, ENG 103, ENG 104, ENG 105

First Year Experience Elective: FYE 100, FYE 105, FYE 110