

**ADVISING ROADMAP TO COMPLETE THE BACHELOR OF SCIENCE IN CIVIL ENGINEERING DEGREE (CE\_\_BS01) IN FIVE YEARS**

131 UNITS REQUIRED

DEPARTMENT OF CIVIL ENGINEERING AND  
CONSTRUCTION ENGINEERING MANAGEMENT

**Semester 1**

Course	Units
Univ 100, Univ & Your Future	1
PHYS 151, Mechanics & Heat (GE B.1.b)	4
MATH 122, Calculus I(GE B.2)	4
MAE 172, Engineering Design Graphics	3
Composition or Oral Communication	3
<b>TOTAL UNITS</b>	<b>15</b>

**Semester 2**

Course	Units
CHEM 111A, Gen Chemistry	5
MATH 123, Calculus II	4
CE 130, Surveying and Mapping	2
Oral Communication or Composition	3
<b>TOTAL UNITS</b>	<b>14</b>

**Semester 3**

Course	Units
PHYS 152, Elect & Magnetism, or EE 210, Fund. of Electric Circuits and EE 210L, Fund. of Electric Circuits Lab	4
MATH 224, Calculus III	4
CE 205, Anal Mech I (Statics)	3
Critical Thinking	3
<b>TOTAL UNITS</b>	<b>14</b>

**Semester 4**

Course	Units
MATH 370A, Applied Math I	3
CE 206, Computer Prog & CE Appl I	2
CE 200, Matls for Civil Engr	2
GE Class	3
GE Class	3
<b>TOTAL UNITS</b>	<b>13</b>

**Semester 5**

Course	Units
ECON 300 Fund. of Economics (GE D.2)	3
BIOL 200, General Biology or Micr. 200, Gen. Micr. For Hlth Prof (B.1a)	4
GE Class	3
GE Class	3
<b>TOTAL UNITS</b>	<b>13</b>

**Semester 6**

Course	Units
GEOL 370, Engr Geology	2
CE 335, Fluid Mechanics	3
CE 364, Environmental Engr	3
MAE 371, Anal Mech II (Dynamics)	3
MAE 373, Mech Deformable Bodies	3
<b>TOTAL UNITS</b>	<b>14</b>

**Semester 7**

Course	Units
CE 345, Geotechnical Engr I	3
CE 346, Geotechnical Engr Lab	1
CE 359, Structural Analysis I	3
MAE 330, Engr Thermodynamics I	3
GE Capstone class	3
<b>TOTAL UNITS</b>	<b>13</b>

**Semester 8**

Course	Units
CE 426, Transportation Engr	3
CE 437, Engineering Hydraulics	3
CE 459, Reinforced Concrete Design I	3
CE/MAE Lab (i)	1
GE Capstone class	3
<b>TOTAL UNITS</b>	<b>13</b>

## Semester 9

Course	Units
CE 407, Probability & Statistics in C.E.	2
CE 406, Engr Econ & Admin	3
CE/MAE Lab (i)	1
CE Technical Design Elective (iii)	3
GE Capstone class	3
<b>TOTAL UNITS</b>	<b>12</b>

## Semester 10

Course	Units
CE 481, Professional Practice in CE	1
CE490, Senior Design Project	3
CE Technical Design Elective (iii)	3
CE Technical Elective (ii)	3
<b>TOTAL UNITS</b>	<b>10</b>

Engineering students may waive six units of General Education. (Category D.2 and C.3 or E)