## Table 5-1 Curriculum of Civil Engineering Technology Program

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course (Department, Number, Title) List all courses in the program by term starting with first term of the first year and ending with the last term of the final year. | | Indicate Whether Course is Required, Elective, or a Selective Elective by an R, an E or an SE2 | *Curricular Area (Credit Hours)* | | | | Last Two Terms the Course was Offered: Year and, Semester, or Quarter | Average Section Enrollment for the Last Two Terms the Course was Offered1 |
| Math and Physical/Natural Sciences | Discipline Specific Content | General Education/General Studies | Other |
| Freshman Year (1st Year) - Semester 1 (F) | |  |  |  |  |  |  |  |
| CIE 111 | Technical drawing & CAD | R |  | 3 |  |  | FA-2021-2022  FA-2020-2021 | 48  53 |
| COM 101 | Professional Speaking | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 43  50 |
| DTE-CIE 102 | Career Orientation 1 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 42  53 |
| MTH 103 | Advanced Mathematics A1 | R | 3 |  |  |  | FA-2021-2022  FA-2020-2021 | 40  50 |
| PHI 100 | Critical Thinking (including Scientific Research Methodology) | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 48  55 |
| POS 351 | Scientific Socialism | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 44  56 |
| Freshman Year (1st Year) - Semester 2 (S) | |  |  |  |  |  |  |  |
| CIE 211 | Advanced CAD in Civil Engineering | R |  | 2 |  |  | SP-2021-2022  SP-2020-2021 | 42  54 |
| CS 201 | Basic Software Applications | R |  |  | 3 |  | SP -2021-2022  SP -2020-2021 | 49  42 |
| DTE-CIE 152 | Career Orientation 2 | R |  |  | 2 |  | SP -2021-2022  SP -2020-2021 | 43  43 |
| ENG 116 | Reading - Level 1 | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 40  43 |
| ENG 117 | Writing - Level 1 | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 48  40 |
| MEC 201 | Theoretical Mechanic 1 | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 46  43 |
| MTH 104 | Advanced Mathematics A2 | R | 3 |  |  |  | SP -2021-2022  SP -2020-2021 | 47  42 |
| PHY 101 | Introduction to Physics 1 | R | 3 |  |  |  | SP -2021-2022  SP -2020-2021 | 50  53 |
| Sophomore Year (2nd Year) - Semester 1 (F) | |  |  |  |  |  |  |  |
| CIE 248 | Cognitive Internship | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 48  45 |
| CIE 260 | Geodesy | R |  | 3 |  |  | FA-2021-2022  FA-2020-2021 | 43  43 |
| CIE 296 | CDIO Project | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 42  53 |
| COM 102 | Professional Writing | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 52  46 |
| ENG 118 | Listening - Level 1 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 50  42 |
| ENG 119 | Speaking - Level 1 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 45  53 |
| ENG 166 | Reading - Level 2 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 52  53 |
| MEC 211 | Material Strength 1 | R |  | 3 |  |  | FA-2021-2022  FA-2020-2021 | 48  45 |
| PHI 150 | Marxism-Leninism | R |  |  | 3 |  | FA-2021-2022  FA-2020-2021 | 43  54 |
| Sophomore Year (2nd Year) - Semester 2 (S) | | R |  |  |  |  |  |  |
| ARC 392 | Architectural Design for Building | R |  | 3 |  |  | SP -2021-2022  SP -2020-2021 | 49  53 |
| CIE 321 | Building Materials | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 43  53 |
| CIE 322 | Experimental Testing of Building Materials | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 42  53 |
| GLY 291 | Geology | R |  | 3 |  |  | SP -2021-2022  SP -2020-2021 | 48  53 |
| HYD 201 | Hydraulics | R |  | 3 |  |  | SP -2021-2022  SP -2020-2021 | 53  48 |
| MEC 212 | Material Strength 2 | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 48  45 |
| MEC 306 | Structural Mechanics 1 (including SAP) | R |  | 4 |  |  | SP -2021-2022  SP -2020-2021 | 44  45 |
| Junior Year (3rd Year) - Semester 1 (F) | | R |  |  |  |  |  |  |
| *Selected Elective course, 2 out of 5 below:* | |  |  |  |  |  |  |  |
| AHI 391 | History of Vietnamese and East Asian Architecture | SE |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 43  42 |
| AHI 392 | History of Western Architecture |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 43  42 |
| EVR 205 | Environmental Health |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 48  42 |
| HIS 221 | World Civilizations 1 |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 43  42 |
| HIS 222 | World Civilizations 2 |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 48  42 |
| CIE 376 | Reinforced Concrete Structures | R |  | 3 |  |  | FA-2021-2022  FA-2020-2021 | 42  53 |
| CIE 377 | Reinforced Concrete Structures Project | R |  | 1 |  |  | FA-2021-2022  FA-2020-2021 | 43  53 |
| CIE 378 | Steel Structures | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 48  55 |
| ENG 167 | Writing - Level 2 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 44  57 |
| ENG 168 | Listening - Level 2 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 45  53 |
| MEC 307 | Structural Mechanics 2 | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 48  41 |
| MEC 316 | Soil Mechanics | R |  | 3 |  |  | FA-2021-2022  FA-2020-2021 | 48  43 |
| POS 151 | Political Economics of Marxism and Leninism | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 44  41 |
| Junior Year (3rd Year) - Semester 2 (S) | | R |  |  |  |  |  |  |
| CIE 323 | Foundation & Footing | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 42  41 |
| CIE 324 | Foundation & Footing Project | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 45  40 |
| CIE 396 | CDIO Project | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 46  51 |
| CIE 403 | Construction Techniques | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 46  41 |
| CIE 426 | Reinforced Concrete Building Structure | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 52  35 |
| CIE 427 | Reinforced Concrete Building Structure Project | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 34  41 |
| ENG 169 | Speaking - Level 2 | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 38  40 |
| ENG 216 | Reading - Level 3 | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 41  43 |
| FST 342 | Computer Science in Construction | R |  |  | 3 |  | SP -2021-2022  SP -2020-2021 | 45  43 |
| HYD 341 | Water supply and drainage | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 34  32 |
| *Selected Elective course, 1 out of 3 below:* | |  |  |  |  |  |  |  |
| DTE 201 | Business Ethics | SE |  |  | 2 |  | SP -2021-2022  SP -2020-2021 | 32  35 |
| LAW 201 | Basic Principles of Law |  |  | 2 |  | SP -2021-2022  SP -2020-2021 | 33  35 |
| MED 268 | Medical Ethics |  |  | 2 |  | SP -2021-2022  SP -2020-2021 | 28  32 |
| Senior Year (4th Year) - Semester 1 (F) | | R |  |  |  |  |  |  |
| CIE 371 | Advanced Building Materials | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 35  33 |
| CIE 404 | Construction Management | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 38  33 |
| CIE 428 | Steel Building Structure | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 38  34 |
| CIE 429 | Steel Building Structure Project | R |  | 1 |  |  | FA-2021-2022  FA-2020-2021 | 35  32 |
| CIE 450 | Occupational Safety and Health | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 31  32 |
| CIE 475 | High-rise Building Structure | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 30  35 |
| CIE 477 | Prestressed Reinforced Concrete Structure | E |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 36  31 |
| CIE 486 | Integrated Concrete Construction Technical Project | R |  | 1 |  |  | FA-2021-2022  FA-2020-2021 | 36  36 |
| ENG 217 | Writing - Level 3 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 35  39 |
| ENG 218 | Listening - Level 3 | R |  |  | 1 |  | FA-2021-2022  FA-2020-2021 | 31  39 |
| ENG 330 | Technical English for Building and Construction | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 48  43 |
| Senior Year (4th Year) - Semester 2 (S) | | R |  |  |  |  |  |  |
| CIE 431 | Assembly Techniques for Civil & Industrial Building | R |  | 3 |  |  | SP -2021-2022  SP -2020-2021 | 48  43 |
| CIE 432 | Assembly Techniques for Civil & Industrial Building Projects | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 48  45 |
| CIE 433 | Civil and Industrial Construction Management | R |  | 3 |  |  | SP -2021-2022  SP -2020-2021 | 44  47 |
| CIE 434 | Civil and Industrial Construction Management Project | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 43  48 |
| CIE 435 | Construction Machinery | R |  | 1 |  |  | SP -2021-2022  SP -2020-2021 | 48  43 |
| CIE 446 | CDIO Project | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 48  35 |
| CIE 478 | Advanced Steel Structures | E |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 48  46 |
| ENG 219 | Speaking - Level 3 | R |  |  | 1 |  | SP -2021-2022  SP -2020-2021 | 48  37 |
| FIN 442 | Construction Estimation | R |  | 2 |  |  | SP -2021-2022  SP -2020-2021 | 46  35 |
| HIS 362 | History of the Communist Party of Vietnam | R |  |  | 2 |  | SP -2021-2022  SP -2020-2021 | 39  40 |
| Senior Year (5th Year) - Semester 1 (F) | | R |  |  |  |  |  |  |
| CIE 441 | Construction Project Management | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 38  36 |
| CIE 462 | Geodetic Surveying Practice | R |  | 1 |  |  | FA-2021-2022  FA-2020-2021 | 43  43 |
| CIE 483 | Specialized Construction Techniques | E |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 43  45 |
| CIE 497 | Graduation Project | R |  | 8 |  |  | FA-2021-2022  FA-2020-2021 | 39  38 |
| CIE 498 | Internship for Graduation | R |  | 2 |  |  | FA-2021-2022  FA-2020-2021 | 41  36 |
| POS 361 | Ho Chi Minh's Ideology | R |  |  | 2 |  | FA-2021-2022  FA-2020-2021 | 38  34 |
| OVERALL TOTAL CREDIT HOURS FOR THE DEGREE | |  | **9** | **95** | **49** | **0** |  |  |
| PERCENT OF TOTAL | | | 6 | 62 | 32 | 0.0 |  |  |

1. For courses that include multiple elements (lecture, laboratory, recitation, etc.), indicate the average enrollment in each element.
2. Required courses are required of all students in the program, elective courses are optional for students, and selected electives are courses where students must take one or more courses from a specified group.
3. General Education or General Studies, are required core courses outside of the major (e.g., art, history, social sciences, etc.)