|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Master of Science in Civil Engineering**  **Prerequisite Checklist for Students Admitted without an ABET CE Degree** | | | | | | | | | | | |
| **Name:** |  | | | **Phone:** | |  | | **CIN** |  | | |
|  | ***Last First*** | | |  | | | | | | | |
| **Advisor:** |  | | | **Transfer Institution:** | |  | | | | | |
|  | | | | | | | | | | | |
| **COURSE** | | | | **TRANSFERRED FROM** | | | | **QTR** |  | |  |
| **INSTITUTION** | | | **DEPT & COURSE** | **UNITS** | **GRADE** | | **G\*** |
| **REQUIREMENT FOR ADMISSION INTO THE PROGRAM** | | | | | | | | | | | |
| **REQUIRED COURSES (32 UNITS) –** | | | | | | | | | | | |
| MATH 2110 | | [Calculus I](http://ecatalog.calstatela.edu/preview_program.php?catoid=4&poid=400) (4) | |  | | |  |  |  | |  |
| MATH 2120 | | [Calculus II (4)](http://ecatalog.calstatela.edu/preview_program.php?catoid=4&poid=400) | |  | | |  |  |  | |  |
| MATH 2130 | | Calculus III (3) | |  | | |  |  |  | |  |
| MATH 2150 | | Differential Equations (3) | |  | | |  |  |  | |  |
| CHEM 1040 | | Chemistry for Engineers (4) | |  | | |  |  |  | |  |
| PHYS 2100 | | [General Physics I: Mechanics and Thermodynamics (5)](http://ecatalog.calstatela.edu/preview_program.php?catoid=4&poid=400) | |  | | |  |  |  | |  |
| CE/ME 2010 | | [Statics (3)](http://ecatalog.calstatela.edu/preview_program.php?catoid=4&poid=400) | |  | | |  |  |  | |  |
| CE 2020 | | Plane Surveying (3) | |  | | |  |  |  | |  |
| CE/ME 2050 | | Strength of Materials I (3) | |  | | |  |  |  | |  |
| CE 2800 | | Numerical Methods for Engineers I (1) | |  | | |  |  |  | |  |
| CE/ME 3030 | | Fluid Mechanics I (3) | |  | | |  |  |  | |  |
| **REQUIREMENT TO BE COMPLETED AFTER ADMISSION INTO THE PROGRAM** | | | | | | | | | | | |
| **ELECTIVES (12 UNITS): Choose any 4 courses from the following list.**  **(Choose courses that are prerequisites for higher level courses you plan to take.)** | | | | | | | | | | | |
| CE 3600 | | Structural Mechanics I (3) | |  | | |  |  |  | |  |
| CE 3610 | | Introduction to Structural Design (3) | |  | | |  |  |  | |  |
| CE 3660 | | Geotechnical Engineering I (3) | |  | | |  |  |  | |  |
| CE 3700 | | Transportation Engineering (3) | |  | | |  |  |  | |  |
| CE 2840& CE 3840 | | Environmental Engineering I & II (3) | |  | | |  |  |  | |  |
| CE 3860 | | Design of Water Resources Systems (3) | |  | | |  |  |  | |  |
| CE 3870 | | Hydraulics I (3) | |  | | |  |  |  | |  |
| CE 3650 | | Fundamentals of Construction Management (3) | |  | | |  |  |  | |  |
| **DESIGN ELECTIVES: Any two CE 4000 level Design course from this list (6 UNITS) (Can apply to MSCE program)** | | | | | | | | | | | |
| CE 4610 | | Design of Steel Structures (3) | |  | | |  |  | |  |  |
| CE 4620 | | Reinforced Concrete Design I (3) | |  | | |  |  | |  |  |
| CE 4630 | | Timber and Masonry Design (3) | |  | | |  |  | |  |  |
| CE 4650 | | Seismic Design (3) | |  | | |  |  | |  |  |
| CE 4670 | | Geotechnical Engineering Design I (3) | |  | | |  |  | |  |  |
| CE 4710 | | Highway Engineering (3) | |  | | |  |  | |  |  |
| CE 4720 | | Highway and Airport Pavement Design (3) | |  | | |  |  | |  |  |
| CE 4840 | | Environmental Engineering Design (3) | |  | | |  |  | |  |  |
| **STUDENT:** | |  | **DATE:** | |  | | | | | | |
| **ADVISOR:** | |  | **DATE:** | |  | | | | | | |
| **DEPT. CHAIR:** | |  | **DATE:** | |  | | | | | | |