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| **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:** |  |