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*Applicants without a BS degree in the discipline are required to attain equivalency of BS-level knowledge of the subject before being fully admitted to the MS or M.Eng programs. Equivalency is determined by the CENE department faculty and Chair and may consist of additional coursework, experience, testing or a combination of these items. After determining the equivalency requirements, a representative of the CENE department faculty will meet with the applicant to develop a plan so that the applicant can be provisionally accepted to the program. Demonstration of achievement (B or better) in the following prerequisite courses is required to attain equivalency.*

## Prerequisites for Master of Science in Civil Engineering and Online Master of Engineering (Civil Engineering) for Applicants without BS degree in the discipline

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Substitute Course** | **Term** | **Grade** | **School** |
| MAT 136 Calculus I |  |  |  |  |
| MAT 137 Calculus II |  |  |  |  |
| MAT 238 Calculus III |  |  |  |  |
| MAT 239 Differential Equations |  |  |  |  |
| PHY161,161L University Physics I + lab |  |  |  |  |
| PHY262 University Physics II |  |  |  |  |
| CHM 151,151L General Chemistry I + lab |  |  |  |  |
| CENE 225 Engineering Analysis |  |  |  |  |
| CENE 270 Plane Surveying + lab |  |  |  |  |
| CENE 251 Statics |  |  |  |  |
| ME 252 Dynamics |  |  |  |  |
| CENE 253,253L, Mechanics of Matls. + lab |  |  |  |  |
|  |  |  |  |  |
| Plus at least 13 credits of the following: |  |  |  |  |
| Water Resources (CENE333, 333L, 433) |  |  |  |  |
| Geotechnical Engineering (CENE 383, 383L,450)  |  |  |  |  |
| Structural Engineering (CENE 376, 438) |  |  |  |  |
| Transportation Engineering (CENE418, 420)  |  |  |  |  |
|  |  |  |  |  |

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