

CEE Pre-Requisite Chart

| PREREQUISITES: students must earn a C- or better in any course taken that is a prerequisite for a follow-on CEE course. | | | | COURSE | COURSE NAME | COURSE IS PREREQUISITE FOR OTHER REQUIRED/CEE COURSES, AS LISTED: | | | | | | | |
|---|---------------------|--|---------------------|------------------|-------------------------------------|---|-----------|-----------|----------|----------|----------|----------|--|
| | | | none | Chem 1035 | General Chemistry | CEE 3104 | CEE 3684 | | | | | | |
| | | | (Co-req: Chem 1035) | Chem 1045 | General Chemistry Lab | CEE 3104 | CEE 3684 | | | | | | |
| | | | none | Engl 1105 | First Year Writing | Engl 1106 | | | | | | | |
| | | (Co-req: Math 1205) | none | ENGE 1024 | Engineering Exploration | ENGE 1114 | ISE 2014 | CEE 2804 | | | | | |
| | | | none | Math 1114 | Linear Algebra | ESM 2104 | Math 2214 | | | | | | |
| | | | none | Math 1205 | Calculus I | Math 1224 | Math 1206 | Phys 2306 | | | | | |
| | | (Co-req: Math 1206) | none | Phys 2305 | Foundations of Physics I | Phys 2306 | CEE 3104 | | | | | | |
| | | | ENGE 1024 | ENGE 1114 | Exploration of Engr Design | CEE 2814 | | | | | | | |
| | | | Engl 1105 | Engl 1106 | First Year Writing | | | | | | | | |
| | | (Co-reqs: Math 1114 & 1206) | Math 1205 | Math 1224 | Vector Geometry | Math 2224 | CEE 2814 | | | | | | |
| | | | Math 1205 | Math 1206 | Calculus II | Math 2224 | Math 2214 | CEE 2814 | CEE 3104 | | | | |
| | | | Math 1205 | Phys 2305 | Phys 2306 | Foundation of Physics I | | | | | | | |
| | | | Math 1224 | Math 1206 | Math 2224 | Multi-variable Calculus | Stat 3704 | CEE 4594 | | | | | |
| | | (Co-req: Math 2224; must complete prior to ESM 2204) | Math 1114 | ESM 2104 | Statics | ESM 2204 | CEE 3304 | | | | | | |
| | | | none | GEOS 2104 | Elements of Geology | CEE 3514 | CEE 3684 | | | | | | |
| | | (Co-reqs: ENGE 1114 & CEE 2804) | | ENGE 2824 | CEE Drawings & CAD | | | | | | | | |
| | | | Math 2224 | ESM 2104 | ESM 2204 | Mechanics of Deformable Bodies | CEE 3404 | CEE 3514 | CEE 3684 | | | | |
| | | | ENGE 1024 | ISE 2014 | Engineering Economy | | | | | | | | |
| | | | Math 1114 | Math 1206 | Math 2214 | Differential Equations | ECE 3054 | | | | | | |
| | | | JR Standing | Engl 3764 | Technical Writing | | | | | | | | |
| | | | ENGE 1024 | CEE 2804 | Intro to CEE | | | | | | | | |
| | [Co-req: ENGE 2824] | MATH 1206 | MATH 1224 | ENGE 1114 | CEE 2814 | CEE Measurements | CEE 3274 | CEE 3684 | | | | | |
| | | | JR Standing | CEE 3014 | Construction Management | CEE 4014 | CEE 4024 | CEE 4064 | CEE 4074 | CEE 4104 | | | |
| | CHEM 1035 | CHEM 1045 | MATH 1206 | PHYS 2305 | CEE 3104 | Intro to Environmental Engr | CEE 4114 | CEE 4144 | CEE 4164 | CEE 4174 | CEE 4354 | | |
| | | | Jr. Standing | CEE 2814 | CEE 3274 | Intro to Land Development | CEE 4274 | CEE 4284 | | | | | |
| | | | ESM 2104 | CEE 3304 | Fluid Mechanics for CEE | CEE 3314 | CEE 4104 | CEE 4304 | CEE 4314 | CEE 4364 | | | |
| | | | CEE 3304 | CEE 3314 | Water Resources Engr | CEE 4324 | CEE 4334 | CEE 4354 | | | | | |
| | | | ESM 2204 | CEE 3404 | Theory of Structures | CEE 3414 | CEE 3424 | CEE 3434 | CEE 4404 | | | | |
| | | | CEE 3684 | CEE 3404 | CEE 3424 | Reinforced Concrete Structures I | CEE 4454 | | | | | | |
| | | | CEE 3684 | CEE 3404 | CEE 3434 | Design of Steel Structures I | | | | | | | |
| | | | GEOS 2104 | ESM 2204 | CEE 3514 | Intro to Geotech Engr | CEE 4514 | CEE 4534 | CEE 4544 | | | | |
| | | | JR Standing | CEE 3604 | Intro to Transportation Engr | CEE 4604 | CEE 4624 | CEE 4654 | CEE 4674 | CEE 4684 | CEE 4644 | | |
| CHEM 1035 | CHEM 1045 | GEOS 2104 | ESM 2204 | CEE 2814 | CEE 3684 | CE Materials | CEE 3424 | CEE 3434 | CEE 4454 | CEE 4614 | CEE 4634 | CEE 4664 | |
| | | | JR Standing | CEE 3804 | Computer Applications in CEE | | | | | | | | |

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|---|--|--------------|-------------|----------|---|---|--|--|--|--|--|
| | | | CEE 3014 | CEE 4014 | Estimating, Production, & Cost Engr | | | | | | |
| | | | CEE 3014 | CEE 4024 | Construction Control Techniques | | | | | | |
| | | | CEE 3014 | CEE 4064 | Desg. For Hazard Control in Cnst. | | | | | | |
| | | | CEE 3014 | CEE 4074 | Means & Methods | | | | | | |
| | | CEE 3304 | CEE 3104 | CEE 4104 | Water & Wastewater Treatment Design | | | | | | |
| | | | CEE 3104 | CEE 4114 | Fund of Public Health Engr | | | | | | |
| | | | CEE 3104 | CEE 4134 | Environmental Sustainability | | | | | | |
| | | SR Standing | CEE 3104 | CEE 4144 | Air Resources Engr | | | | | | |
| | | CEE 3684 | CEE 3104 | CEE 4154 | Indoor Env. Quality and Sustainability | | | | | | |
| | | | CEE 3104 | CEE 4164 | Environmental Microbiology | | | | | | |
| | | | CEE 3104 | CEE 4174 | Solid & Hazardous Waste Management | | | | | | |
| | | | SR Standing | CEE 4254 | Municipal Engineering | | | | | | |
| | | | SR Standing | CEE 4264 | Sustainable Land Development | | | | | | |
| | | SR Standing | CEE 3274 | CEE 4274 | Land Development Design | | | | | | |
| | | co: CEE 4274 | CEE 3274 | CEE 4284 | Advanced Land Development Design | | | | | | |
| | | | CEE 3304 | CEE 4304 | Hydrology | | | | | | |
| | | | CEE 3304 | CEE 4314 | Groundwater Resources | | | | | | |
| | | | CEE3314 | CEE4324 | Open Channel Flow | | | | | | |
| | | | CEE 3314 | CEE 4334 | Hydraulic Structures | | | | | | |
| | | | SR Standing | CEE 4344 | Water Resources Planning | | | | | | |
| | | CEE 3314 | CEE 3104 | CEE 4354 | Environmental Hydrology | | | | | | |
| | | | CEE 3304 | CEE 4364 | Fluid Flows in Nature | | | | | | |
| | | | CEE 3404 | CEE 4404 | Computer Analysis of Structures I | | | | | | |
| | | | CEE 3514 | CEE 4514 | Methods in Geotechnical Engr | | | | | | |
| | | | CEE 3514 | CEE 4534 | Earth Pressures & Foundation Structures | | | | | | |
| | | | CEE 3514 | CEE 4544 | Design of Earth Structures | | | | | | |
| | | | SR Standing | CEE 4554 | Natural Disaster Mitigation & Recovery | | | | | | |
| | | | MATH 2224 | CEE 4594 | Soil & Groundwater Pollution | | | | | | |
| | | | CEE 3604 | CEE 4604 | Traffic Engineering | | | | | | |
| | | | CEE 3684 | CEE 4614 | Advanced CE Materials | | | | | | |
| | | | CEE 3604 | CEE 4624 | Planning Transportation Facilities | | | | | | |
| | | | CEE 3684 | CEE 4634 | Infrastructure Condition Assessment | | | | | | |
| | | | CEE 3604 | CEE 4644 | Traffic Signal Systems | | | | | | |
| | | | CEE 3604 | CEE 4654 | Geometric Design of Highways | | | | | | |
| | | | CEE 3684 | CEE 4664 | Pavement Design | | | | | | |
| | | | CEE 3604 | CEE 4674 | Airport Planning & Design | | | | | | |
| | | | CEE 3604 | CEE 4684 | Transportation Safety | | | | | | |
| | | | SR Standing | CEE 4804 | Professional & Legal Issues in Engr | | | | | | |