

**The 4+1 Program Study Plan Form (3 Options) for**

**B.S./M.ENG Degrees in Department of Civil and Environmental Engineering**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** |   |  |  |
| **First** | **MI** | **Last** |
| **Address** |  |
| **Student ID #** |  | **Phone** |  |
| **Email** |  |
| **Degree Program** |  | **Concentrated Area** |  |
| **Faculty Advisor** |  |
| **Faculty Advisor’s Signature** |  | **Date** |  |
| **COURSE NAME** | **CREDITS** | **SEMESTER/YEAR** |
| **General Core Courses for ME Required by SOE (9 credits1)** |
| CEGR 514 Environmental Impact and Risk Assessment | 3 | / |
| EEGR 505 Advanced Engineering Mathematics withComputational Methods | 3 | / |
| IEGR 512 Advanced Project Management | 3 | / |
|  |  |  |
| **Suggested Core Courses from a CE Track (9 credits2)** |
| CEGR TTT | 3 | / |
| CEGR TTT | 3 | / |
| CEGR TTT | 3 | / |
| **Elective Courses (9 credits3&4)** |
| CEGR YYY | 3 | / |
| CEGR YYY | 3 | / |
| CEGR YYY | 3 | / |
| **Take One of Three Plans A, B or C below (3 credits each5)** |
| **Plan A:** Project Report, CEGR795 Project Report | 3 | / |
| **Plan B:** Thesis**,** CEGR799 Thesis Defense5 | 3 | / |
| **Plan C:** Courses only**, CEGR YYY** elective | 3 | / |
| **Total Credits for Each Option** | **30** |

Note: One may take Plan A, B or C with a total of 30 credits.

1. Three CEGR XXX elective undergraduate courses will be replaced with CEGR 514, EEGR 505 and IEGR 512.
2. One has to take 3 CEGR TTT as track suggested core courses.
3. One may take two courses from a different track as a minor.
4. One can take up to one non-CEGR YYY elective with advisor’s approval.
5. One may be encouraged to take 6 credits hours of CEGR 790 for Thesis Option.

*Example for a student’s track on Geotechnical Engineering with Plan A:*

**The 4+1 Program Study Plan Form (3 Options) for**

**Master of Engineering in Department of Civil and Environmental Engineering**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** |  |  |  |
| **First** | **MI** | **Last** |
| **Address** |  |
| **Student ID #** |  | **Phone** |  |
| **Email** |  |
| **Degree Program** | **Master of Engineering** | **Concentrated Area** | *Geotechnical Engineering* |
| **Faculty Advisor** |  |
| **Faculty Advisor’s Signature** |  | **Date** |  |
| **COURSE NAME** | **CREDITS** | **SEMESTER/YEAR** |
| **General Core Courses for ME Required by SOE (9 credits1)** |
| CEGR 514 Environmental Impact and Risk Assessment | 3 | Fall /2023 |
| EEGR 505 Advanced Engineering Mathematics withComputational Methods | 3 | Fall/2023 |
| IEGR 512 Advanced Project Management | 3 | Spring/2024 |
| **Suggested Elective Courses from a CE Track (9 credits2)** |
| CEGR 731 Advanced Soil Mechanics I | 3 | Fall/2023 |
| CEGR 745 Advanced Analysis of Slope Stability | 3 | Spring/2024 |
| CEGR 748 Design of Pile Foundation | 3 | Spring/2024 |
|  |  |  |
| **Elective Courses (9 credits3 & 4)** |
| CEGR 743: Finite Element Method in Geomechanics | 3 | Fall/2024 |
| CEGR 687: Groundwater Hydrology | 3 | Fall/2024 |
| CEGR 742: Geographic Information System (GIS)Modeling in Raster | 3 |  Fall/2024 or Spring 2025 |
| **Take One of the Three Plans A, B or C Below (3 credits5)** |
| **Plan A:** Project Report, CEGR795 Project Report (3) | 3 | Fall/2024 |
| **Plan B:** Thesis, CEGR 797/799 Thesis Defense5 | 3 | N/A |
| **Plan B:** Courses only, **CEGR YYY**(3) CE electives | 3 | N/A |
| **Total Credits for Each Option** | **30** |

Note: One may take Plan A, B or C with a total of 30 credits.

1. Three CEGR XXX undergraduate elective courses will be replaced with CEGR 514, EEGR 505 and IEGR 512.
2. One has to take 3 CEGR courses as track suggested core courses.
3. One may take two courses from a different track as a minor.
4. One can take up to one non-CEGR elective with advisor’s approval.
5. One may be encouraged to take 6 credits hours of CEGR 790 for Thesis Option.