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**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 with  Computational 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 with  Computational 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.