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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Students Name: | | Standard Plan of Study | | | | U Number: | | | |  | | | Advisor: |  | | | | | |
|  | |  | | |  | | |  | | | | |  |  | | | | | |
| Course | Title | | CR | Grade | Semester Passed | | CS\* | TR\* |  | | Course | Title | | | CR | Grade | Semester Passed | CS\* | TR\* |
| **Freshman I** |  | | **16** |  |  | | | |  | | **Freshman II** |  | | | **15** |  |  | | |
| **ENGL 1010** | English Composition I | | 3 |  |  | |  |  |  | | **ENGL 1020** | English Composition II | | | 3 |  |  |  |  |
| **ENGR 1010** | Engr Problem Solving | | 3 |  |  | |  |  |  | | **MATH 1920** | Calculus II | | | 4 |  |  |  |  |
| **MATH 1910** | Calculus I | | 4 |  |  | |  |  |  | | **PHYS 2110** | Sci/Engr. Physics I/Calc | | | 3 |  |  |  |  |
| **MECH 1310** | Intro. to Mech. Engr. | | 2 |  |  | |  |  |  | | **PHYS 2111** | Sci/Engr. Physics I/Calc Lab | | | 1 |  |  |  |  |
| **CHEM 1110** | Gen. Chem I | | 3 |  |  | |  |  |  | | **MECH 1312** | Mech. Engr Computing I | | | 2 |  |  |  |  |
| **CHEM 1111** | Gen. Chem I Lab | | 1 |  |  | |  |  |  | | **MECH 1314** | Mech. Engr Computing II | | | 2 |  |  |  |  |
| **Sophomore I** |  | | **17** |  |  | | | |  | | **Sophomore II** |  | | | **15** |  |  | | |
| **ENGL 2201/2** | Literary Heritage | | 3 |  |  | |  |  |  | | **EECE 2201** | Circuit Analysis I | | | 3 |  |  |  |  |
| **CIVL 2131** | Statics | | 3 |  |  | |  |  |  | | **MATH 2120** | Differential Equations | | | 3 |  |  |  |  |
| **MATH 2110** | Calculus III | | 4 |  |  | |  |  |  | | **MECH 2311** | Thermodynamics I | | | 3 |  |  |  |  |
| **PHYS 2120** | Sci/Engr Physics II/Calc | | 3 |  |  | |  |  |  | | **MECH 2320** | Mech. of Materials | | | 3 |  |  |  |  |
| **PHYS 2121** | Sci/Engr Physics II/Calc Lab | | 1 |  |  | |  |  |  | | **MECH 2332** | Dynamics | | | 3 |  |  |  |  |
| **MECH 2318** | Engr. Design Comm. | | 3 |  |  | |  |  |  | |  |  | | |  |  |  |  |  |
| **Junior I** |  | | **16** |  |  | | | |  | | **Junior II** |  | | | **17** |  |  | | |
| **GEN ED** | Social Science | | 3 |  |  | |  |  |  | | **ENGL 3603** | Engr. Communications | | | 3 |  |  |  |  |
| **MECH 3312** | Thermodynamics II | | 3 |  |  | |  |  |  | | **MECH 3323** | Machine Design | | | 3 |  |  |  |  |
| **MECH 3320** | Engineering Materials | | 3 |  |  | |  |  |  | | **MECH 3335** | Fluid Mechanics Lab | | | 1 |  |  |  |  |
| **MECH 3321** | Mechanics of Machines | | 3 |  |  | |  |  |  | | **MECH 3341** | Numerical & Stat Methods | | | 3 |  |  |  |  |
| **MECH 3325** | Mechanics of Materials Lab | | 1 |  |  | |  |  |  | | **MECH 3351** | Heat Transfer I | | | 3 |  |  |  |  |
| **MECH 3331** | Fluid Mechanics | | 3 |  |  | |  |  |  | | **SCI. ELEC.** | Basic Science with Lab | | | 3 |  |  |  |  |
|  |  | |  |  |  | |  |  |  | | **SCI. ELEC.** | Basic Science Lab | | | 1 |  |  |  |  |
| **Senior I** |  | | **16** |  |  | | | |  | | **Senior II** |  | | | **16** |  |  | | |
| **GEN ED** | Humanities | | 3 |  |  | |  |  |  | | **GEN ED** | Humanities | | | 3 |  |  |  |  |
| **MECH 4314** | Senior Design I | | 3 |  |  | |  |  |  | | **ECON 2010** | Macroeconomics | | | 3 |  |  |  |  |
| **MECH 4319** | Engr. Econ. & Mgmt. | | 2 |  |  | |  |  |  | | **MECH 4323** | Senior Design II | | | 3 |  |  |  |  |
| **MECH 4300** | Prep. for Prof. Practice | | 1 |  |  | |  |  |  | | **MECH 4335** | System Dynamics Lab | | | 1 |  |  |  |  |
| **MECH 4322** | System Dynamics | | 3 |  |  | |  |  |  | | **MECH ELEC** |  | | | 3 |  |  |  |  |
| **MECH 4355** | Thermo/Heat Transfer Lab | | 1 |  |  | |  |  |  | | **TECH ELEC\*\*** |  | | | 3 |  |  |  |  |
| **MECH ELEC** |  | | 3 |  |  | |  |  |  | |  |  | | |  |  |  |  |  |
| \*(CS) Course Substitution (approval required) or (TR) Transfer Credit (approval required)  \*\*TECH ELEC = upper division Math, Science, or Engineering course approved by advisor | | | | | | | | | | | | | | | | | | | |
| **Graduation & General Education Requirements** | | | | | | | | | | | | | | | | | | | |
| 1. “C-” or better in all required engineering, math, and basic sciences courses   2. 12 hours of English with a “C- or better” in ENGL 1010 and 1020  3. 6 hours of Humanities and 3 hours of Social Science *from the approved list*.  4. 1 year of American History in High School or 6 hours at U of M. | | | | | | | | | | 1. 32 hours of Mathematics and Basic Sciences   6. Basic Science with Lab requirement may be satisfied by: CHEM 1120+1121, or BIOL 1110+1111, or ESCI 1020 or 1040 or 1050.  7. The Undergraduate Catalog used for this degree curriculum is valid for seven (7) years | | | | | | | | | |
| **NOTE: Degree requirements specified in the Undergraduate Catalog take precedence over this representation of that information.** | | | | | | | | | | | | | | | | | | | |