|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Students Name: | |  | | | | U Number: | | | |  | | | Advisor: |  | | | | | |
|  | |  | | |  | | |  | | | | |  |  | | | | | |
| Course | Title | | CR | Grade | Semester Taken | | CS\* | TR\* |  | | Course | Title | | | CR | Grade | Semester Taken | 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 2201/02 | 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 I | | | 3 |  |  |  |  |
| MECH 3320 | Engr. Materials | | 3 |  |  | |  |  |  | | MECH 3335 | Fluid Mech. Lab | | | 1 |  |  |  |  |
| MECH 3321 | Mech. of Machines | | 3 |  |  | |  |  |  | | MECH 3341 | Numerical & Stat Methods | | | 3 |  |  |  |  |
| MECH 3325 | Mech. of Materials Lab | | 1 |  |  | |  |  |  | | MECH 3351 | Heat Transfer I | | | 3 |  |  |  |  |
| MECH 3331 | Fluid Mech. | | 3 |  |  | |  |  |  | | Science Elec | Basic Science with Lab | | | 3 |  |  |  |  |
|  |  | |  |  |  | |  |  |  | | Science 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 | Heat Transfer I 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, physics, chemistry, and biology 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. | 5. 32 hours of Mathematics and Basic Sciences  6. Science Elec requirement may be satisfied with any Basic Science course and lab  7. “The *Catalog* is valid for seven (7) years”  8. Any requirements specified in the Undergraduate Catalogue take precedence over this publication |