|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 |

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| **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 10203. 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 Sciences6. Science Elec requirement may be satisfied with any Basic Science course and lab7. “The *Catalog* is valid for seven (7) years”8. Any requirements specified in the Undergraduate Catalogue take precedence over this publication |