

## MECHANICAL ENGINEERING

### Recommended course plan

| YEAR                              | FIRST SEMESTER                          | HOURS     | SECOND SEMESTER                          | HOURS          |
|-----------------------------------|---|-----------|--|----------------|
| <b>FRESHMAN</b>                   | Writ 101 – First Year Writing I         | 3         | Writ 102 – First Year Writing II         | 3              |
|                                   | Chem 105/115 – General Chemistry I      | 4         | Chem 106/116 – General Chemistry II      | 4              |
|                                   | Math 261 – Calculus I                   | 3         | Math 262 - Calculus II                   | 3              |
|                                   | Humanities                              | 3         | ME 101 – Intro to Mechanical Engineering | 1              |
|                                   | Humanities                              | 3         | Social Science                           | 3              |
|                                   |   |           |  | Social Science |
|                                   | <b>TOTAL CREDIT HOURS</b>               | <b>16</b> | <b>TOTAL CREDIT HOURS</b>                | <b>17</b>      |
| <b>SOPHOMORE</b>                  | Math 263 – Calculus III                 | 3         | Math 264 – Calculus IV                   | 3              |
|                                   | Phys 211/221 – Calc-based Physics       | 4         | Math 353 – Differential Equations        | 3              |
|                                   | CSCI 251 – Programming for Engineering  | 3         | Phys 212/222 – Calc-based Physics        | 4              |
|                                   | ME 201 – Engineering Graphics           | 2         | ENGR 309 – Statics                       | 3              |
|                                   | Fine Arts                               | 3         | ENGR 321 – Thermodynamics                | 3              |
|                                   |   |           |  |                |
|                                   | <b>TOTAL CREDIT HOURS</b>               | <b>15</b> | <b>TOTAL CREDIT HOURS</b>                | <b>16</b>      |
| <b>JUNIOR</b>                     | Engr 310 – Engineering Analysis I       | 3         | ENGR 323 – Fluid Mechanics               | 3              |
|                                   | Engr 312 – Mechanics of Materials       | 3         | ME 324 – Intro to Mechanical Design      | 3              |
|                                   | ENGR 313/314 – Materials Science        | 4         | ME 325 – Intermediate Dynamics           | 3              |
|                                   | ENGR 330 – Engineering Sys Analysis     | 3         | ENGR 361 – Electric Circuit Theory Lab   | 1              |
|                                   | Engr 360 – Electric Circuit Theory      | 3         | ENGR 420 – Engineering Analysis III      | 3              |
|                                   |   |           | ECON 310 – Engineering Economy           | 3              |
|                                   | <b>TOTAL CREDIT HOURS</b>               | <b>16</b> | <b>TOTAL CREDIT HOURS</b>                | <b>16</b>      |
| <b>SENIOR</b>                     | ME 401 – Thermo-Fluid Dynamics          | 3         | ME 402 – Propulsion                      | 3              |
|                                   | ME 416 – Structures & Dynamics Lab      | 1         | ME 419 – Energy and Fluids Lab           | 1              |
|                                   | ME 426 – Kinematics                     | 3         | ME 428 – Dynamics of Machinery           | 3              |
|                                   | Thermal/Fluid Elective                  | 3         | ME 438 – Senior Design                   | 3              |
|                                   | Design Elective                         | 3         | ENGR 553 – Heat Transfer                 | 3              |
|                                   | Social Science, Humanities or Fine Arts | 3         | Engineering Elective                     | 3              |
|                                   | <b>TOTAL CREDIT HOURS</b>               | <b>16</b> | <b>TOTAL CREDIT HOURS</b>                | <b>16</b>      |
| <b>MINIMUM TOTAL CREDIT HOURS</b> |   |           |  | <b>128</b>     |



Visit [engineering.olemiss.edu/advising](http://engineering.olemiss.edu/advising) for full course information.