### MECHANICAL ENGINEERING
Courses highlighted below are available at Claflin University
Curriculum Example*

#### FRESHMAN YEAR
- **1** ME 2000 Sophomore Seminar
- 5 ME 2100 Statics and Dynamics for Mech. Engr.
- 2 ME 2220 Mechanical Engineering Lab. I
- 3 MSE 2100 intro. to Materials Science
- 4 MATH 2060 Calculus of Several Variables
- 3 PHYS 2210 Physics with Calculus II
- 16

#### SOPHOMORE YEAR
- 1 ME 2000 Sophomore Seminar
- 5 ME 2100 Statics and Dynamics for Mech. Engr.
- 2 ME 2220 Mechanical Engineering Lab. I
- 3 MSE 2100 intro. to Materials Science
- 4 MATH 2060 Calculus of Several Variables
- 3 PHYS 2210 Physics with Calculus II
- 15-16

#### JUNIOR YEAR
- 3 ENGL 3140 Technical Writing
- 3 ME 3030 Thermodynamics
- 3 ME 3070 Foundations of Mechanical Systems
- 3 ME 3080 Fluid Mechanics
- 2 ME 3330 Mechanical Engineering Lab. II
- 3 Statistics Requirement
- 3 MATH 3650 Numerical Methods for Engineers
- 17-18

#### SENIOR YEAR
- 3 ME 4010 Mechanical Engineering Design
- 3 ME 4030 Control & Integration of Multi-Domain Dynamic Systems
- 2 ME 4440 Mechanical Engineering Lab. III
- 3 Mech. Engr. Professional Requirement
- 14-15

### General Education Requirements

<table>
<thead>
<tr>
<th>LIT</th>
<th>Non-Lit</th>
<th>SS1</th>
<th>SS2</th>
<th>CCA</th>
<th>STS</th>
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<tr>
<td>LIFE</td>
<td>Palmetto Fellows</td>
<td>Honors</td>
<td>Athlete</td>
<td>RISE</td>
<td>ROTC</td>
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<tr>
<td>Other</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
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</tbody>
</table>

Comments:

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1. ENGR 1050 and ENGR 1060 may be substituted for ENGR 1020
2. See Policy on Humanities and Social Sciences for Engineering Curricula. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements. These requirements may be filled in any order.
3. ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1410
4. Both are required but may be taken in either semester.
5. ROTC students only may substitute AS 4100 or ML 4020.
6. Select MATH 3020 or STAT 4110
7. Select from BE 4240, BE 4400, BIOE 4350, CH 3310, CH 3600, CH 4040, CH 4250, ECE 4700, ECE 4710, EES 4010, EES 4300, ME 4340, ME 4350, ME 4400, ME 4530, ME 4600, PHYS 3110, PHYS 3210, PHYS 3550, PHYS 4170, PHYS 4200, PHYS 4320, PHYS 4410, PHYS 4520
8. Select any course that meets the technical requirement (any course listed in footnote 7 or 9); or any 3000- or 4000-level modern language course; or a minor requirement.
9. Select from ME 4150, ME 4170, ME 4180, ME 4200, ME 4210, ME 4220, ME 4230, ME 4240, ME 4250, ME 4260, ME 4280, ME 4290, ME 4300, ME 4310, ME 4320, ME 4400, ME 4530, ME 4540, ME 4550, ME 4570, ME 4710 or ME 4930. *ME 4150 may only be taken once for technical elective credit.

Once a student begins coursework at Clemson, the following courses may NOT be transferred to Clemson for the ME degree:
- ME 2010, ME 2030, ME 2040

*See catalog for current curriculum at catalog.clemson.edu

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