### FRESHMAN YEAR

- 4 CH 1010 General Chemistry
- 3 ENGL 1030 Accelerated Composition
- 2 ENGR 1020 Engineering Discipline and Skills
- 3 MATH 1060 Calculus of One Variable I
- 2 Gen Ed

= 16

### SOPHOMORE YEAR

- 3 BIOE 2010 Intro. to Biomedical Engineering
- 2 ECE 2010 Logic and Computing Devices
- 2 ECE 2020 Electric Circuits I
- 1 ECE 2090 Logic and Computing Devices Lab
- 1 ECE 2110 Electrical Engineering Lab. I
- 4 MATH 2060 Calculus of Several Variables
- 3 PHYS 2210 Physics with Calculus II

= 17

### JUNIOR YEAR

- 4 BIOE 3100 Engineering Analysis of Physiological Processes
- 3 CH 2010 Survey of Organic Chemistry
- 1 CH 2020 Survey of Organic Chemistry Lab
- 1 ECE 3110 Electrical Engineering Lab. III
- 3 ECE 3200 Electronics I
- 3 ECE 3300 Signals, Systems, and Transforms

= 15

### SENIOR YEAR

- 3 BIOE 3200 Biomechanics
- 3 BIOE 4010 Biomedical Engineering Design Theory
- 3 BIOL 4610 Cell Biology
- 3 Gen Ed
- 3 BIOE or ECE Technical Requirement

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**General Education Requirements**

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<th>LIT</th>
<th>Non-Lit</th>
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<th>STS</th>
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<td>LIFE</td>
<td>Palmetto Fellows</td>
<td>Honors</td>
<td>Athlete</td>
<td>RISE</td>
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Comments:

1. ENGR 1410/ENGR 1411 4CH 1010 may be substituted for ENGR 1020.
2. Students planning to enter medical school should take CH 2230/CH 2270 instead of CH 2010/CH 2020 and take CH 2240/CH 2280 as an additional course sequence.
3. Students planning to enter medical school should also take physics laboratories as additional courses (PHYS 1220 course with PHYS 1240 lab and PHYS 2210 course with PHYS 2230 lab).
4. Select from BIOE 1000, BIOL 1030, BIOL 1040, BIOL 1100, BIOL 1110
5. Students must take at least six credits from courses with a lecture designation. The other six credits may be selected from courses with the lecture or the non-lecture designation. Lecture Courses-BIOE 3210, BIOE 4020, BIOE 4120, BIOE 4150, BIOE 4200, BIOE 4230, BIOE 4310, BIOE 4350, BIOE 4400, BIOE 4490, BIOE 4500, BIOE 4610, BIOE 4710, BIOE 4820, BMOL 4250, ECE 2720/ECE 2730, ECE 3170, ECE 3210/ECE 3120, ECE 3710/ECE 3720, ECE 3810, ECE 4090, ECE 4270/ECE 4320, ECE 4670, MATH 3650, MSE 4580, PHYS 4170 Non-Lecture Courses-BIOE 4510, BIOE 4600, BIOE 4690, BIOE 4900, BIOE 4910
6. All Clemson engineering students begin in our General Engineering program and move into their specified major once the departmental standards are completed. Clemson courses ENGL 1030, MATH 1060 and 1080, PHYS 1220, CH 1010, ENGR 1020 and ENGR 1410/or CHE 1300 must all be completed with a “C” or higher before declaring and starting courses in your engineering major.

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Footnotes:

1. ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1020; ENGR 1050 and ENGR 1060 may be substituted for ENGR 1020.
2. Students planning to enter medical school should take CH 2230/CH 2270 instead of CH 2010/CH 2020 and take CH 2240/CH 2280 as an additional course sequence.
3. Students planning to enter medical school should also take physics laboratories as additional courses (PHYS 1220 course with PHYS 1240 lab and PHYS 2210 course with PHYS 2230 lab).
4. 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.
5. Select from BIOE 1010, BIOL 1030, BIOL 1040, BIOL 1100, BIOL 1110
6. Students must take at least six credits from courses with a lecture designation. The other six credits may be selected from courses with the lecture or the non-lecture designation. Lecture Courses-BIOE 3210, BIOE 4020, BIOE 4120, BIOE 4150, BIOE 4200, BIOE 4230, BIOE 4310, BIOE 4350, BIOE 4400, BIOE 4490, BIOE 4500, BIOE 4610, BIOE 4710, BIOE 4820, BMOL 4250, ECE 2720/ECE 2730, ECE 3170, ECE 3210/ECE 3120, ECE 3710/ECE 3720, ECE 3810, ECE 4090, ECE 4270/ECE 4320, ECE 4670, MATH 3650, MSE 4580, PHYS 4170 Non-Lecture Courses-BIOE 4510, BIOE 4600, BIOE 4690, BIOE 4900, BIOE 4910

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128 Total Semester Hours