General Engineering Information

What is general engineering?
All students who desire to pursue an engineering program at Clemson are initially admitted to the College of Engineering, Computing and Applied Sciences’ general engineering program (GE). The goals of this program are to provide students with an opportunity to explore various engineering fields while gaining a sound academic preparation for engineering study.

Clemson Undergraduate Engineering Programs
General engineering (All freshman engineers begin in general engineering.)
Bioengineering
Biosystems engineering
Chemical engineering
Civil engineering
Computer engineering
Electrical engineering
Environmental engineering
Industrial engineering
Materials science and engineering
Mechanical engineering

What courses need to be completed before students can switch into their intended engineering program?
Students who want to change from GE to a specific engineering program must complete the core GE courses below with a grade of C or better:

<table>
<thead>
<tr>
<th>TCTC Course</th>
<th>CU Course</th>
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<tbody>
<tr>
<td>ENG 101-102 (or 103)</td>
<td>ENGL 1030</td>
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<tr>
<td>MAT 140, 141*</td>
<td>MATH 1060, 1080</td>
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<tr>
<td>CHM 110</td>
<td>CH 1010</td>
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<tr>
<td>PHYS 221</td>
<td>PHYS 1220</td>
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<tr>
<td>EGR 269</td>
<td>ENGR 1020</td>
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<tr>
<td>EGR 270</td>
<td>ENGR 1410 or 1411</td>
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<td>CHE 1300</td>
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Chemical engineering students will need to take CHE 1300 at Clemson during the summer after their Bridge year, or they will be one year behind in their required curriculum. CHE 1300 is NOT offered in the fall semester.

Are there any GPA requirements to switch to an engineering program?
A minimum 2.5 GPA is required for most of the engineering programs. For mechanical engineering or civil engineering, students need a 2.6 GPA. To change to bioengineering, students need a 3.0 GPA. Students who do not meet the GPA requirements at the end of their Bridge year can enter Clemson in the general engineering program with a 2.5 GPA.

What if a student isn’t taking MAT 140 in the fall of their Bridge year? How can the student catch up?
If a student is not ready to begin calculus (MAT 140) at Tri-County in the fall, the student is strongly encouraged to complete additional math courses over the summer to catch up. Preferably, this would be done prior to enrolling at Tri-County so the student can start the calculus series in the fall and stay on track with the GE cohort. If the student cannot start math courses prior to beginning the Bridge program, they are encouraged to take the additional coursework during the summer between the freshman (Bridge) and sophomore year. Not completing Calculus II prior to the sophomore year will delay progress in the engineering program and will most likely delay graduation by one or two semesters, depending on choice of engineering program.

Are there any suggestions for course sequences?
It is highly recommended that the student complete as many of the recommended GE courses as possible prior to beginning the sophomore year at Clemson. Students who plan to pursue mechanical engineering should complete EGR 275 at Tri-County. Students who plan to pursue bioengineering should take BIO 101 or BIO 113 and CHM 111 prior to their sophomore year. Students who plan to pursue civil engineering should take ENGR 2100 and, if possible, GEOL 1010 and 1030 at Clemson between their freshman and sophomore years. It is also suggested that students complete both MAT 140 and MAT 141 at a technical college before bridging or wait until they get to Clemson to take MATH 1060 and 1080. Students may struggle in MATH 1080 if they complete only MAT 140 at a technical college.

Continued
What are the LIFE Scholarship Enhancement requirements?
To receive the LIFE Scholarship Enhancement, recipients must start their sophomore year with a minimum of 30 earned credit hours, including 14 earned credit hours from approved math and science courses, and must be enrolled in an approved STEM major. Credits earned from AP/IB, dual enrollment and the freshman year will be used in the calculation of eligibility for the LIFE Scholarship Enhancement. All 10 of Clemson’s engineering majors are considered to be STEM majors, but general engineering is not.

Could the LIFE Scholarship Enhancement be affected if students are not out of GE before their sophomore year?
Students who remain in GE after being admitted to Clemson will not receive the LIFE Scholarship Enhancement for their sophomore year. Students who switch out of GE and maintain eligibility for the LIFE Scholarship may be eligible to get the LIFE Scholarship Enhancement for their junior and senior years at Clemson.