

Midlands Technical College & Clemson University: Engineering Course Equivalencies

| CU COURSE | BioEngr. | Biosystems | Civil | Chemical | Computer | Electrical | Enviro. | Industrial | Materials Science | Mech. |
|--|----------------------------|------------|---------|----------|----------|------------|---------|----------------------------|-------------------|---|
| General Engineering Requirements: Highlighted in purple You must achieve a grade of 'C' or higher in all General Engineering courses before changing your major into a specific engineering major. General Engineering courses are recommended prior to transfer, but not required. | | | | | | | | | | |
| CH 1010 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 | CHM 110 |
| ENGL 1030 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 | ENG 102 |
| ENGR 1020 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ENGR 1410 | N/A | N/A | N/A | --* | N/A | N/A | N/A | N/A | N/A | N/A |
| MATH 1060 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 | MAT 140 |
| MATH 1080 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 | MAT 141 |
| PHYS 1220 + 1240 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 | PHY 221 |
| Additional coursework that may be taken towards a Clemson University Engineering Degree, by major | | | | | | | | | | |
| BIOL 1030 + 1050 | BIO 101 | BIO 101 | | | | | BIO 101 | <i>BIO 101^a</i> | | |
| CE 2010/ ME 2050 | EGR 260 | EGR 260 | EGR 260 | | | | EGR 260 | EGR 260 | EGR 260 | ** EGR 260 + EGR 262 ^d ** |
| CE 2080 /ME 2060 | | EGR 262 | EGR 262 | | | | EGR 262 | | | |
| CH 1020 | CHM 111 | CHM 111 | | CHM 111 | | CHM 111 | CHM 111 | <i>CHM 111^a</i> | CHM 111 | |
| CH 2230 + 2270 | <i>CHM 211^b</i> | CHM 211 | | CHM 211 | | | CHM 211 | | CHM 211 | |
| CH 2240 + 2280 | <i>CHM 212^b</i> | | | CHM 212 | | | | | CHM 212 | |
| COMM 2500 | | | SPC 205 | | SPC 205 | SPC 205 | | SPC 205 | SPC 205 | |
| ECE 2010 | <i>ECE 211^c</i> | | | | ECE 211 | ECE 211 | | | | |
| ECE 2020 | ECE 221 | | | | ECE 221 | ECE 221 | | ECE 221 | | ECE 221 ^e |
| ECE 2620 | <i>ECE 222^c</i> | | | | ECE 222 | ECE 222 | | | | |
| ECE 2720 | ECE 212 | | | | ECE 212 | ECE 212 | | | | |
| ECE 2110 + 2120 | | | | | ECE 205 | ECE 205 | | | | ECE 205 ^e |
| ENGR 2090 | | | | | | | EGR 275 | EGR 275 | | |
| MATH 2060 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 | MAT 240 |
| MATH 2080 | MAT 242 | MAT 242 | MAT 242 | MAT 242 | MAT 242 | MAT 242 | MAT 242 | | MAT 242 | MAT 242 |
| PHYS 2210 + 2230 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 | PHY 222 |
| | Bioengr. | Biosystems | Civil | Chemical | Computer | Electrical | Enviro. | Industrial | Materials Science | Mech. |

^a Options to complete lab science requirement

^b Encouraged for those pursuing medical school

^c For Bioengineering majors pursuing the bioelectrical concentration

^d Must take both courses prior to enrolling at CU to transfer these courses for ME

^e The ECE 2020+ 2110 Circuits course and lab can be used to replace ME's ECE 2070+2080 requirement

**These courses cannot be taken anywhere other than Clemson and transferred back for ME credit if the student has previously been enrolled at Clemson University.

*CHE students should take Clemson's CHE 1300 online over the summer prior to transfer to stay on track.

Students desiring to transfer into one of Clemson's 10 engineering majors must have completed a minimum of 30 hours of transferrable coursework with a minimum GPA of 2.7. This is a minimum requirement to be evaluated, and does not mean certain acceptance. The Undergraduate Admissions office makes all decisions on student acceptance. Admissions Office: 105 Sikes Hall, 864-656-2287. This worksheet is intended as information only and does not imply a contract with Clemson University. Courses valid as of 2019. All curricula are available online at: www.catalog.clemson.edu. If you have questions or need further advice, please contact the CECAS Transfer Director: Karen Thompson, at kt@clemson.edu or 864-656-2543.