

## Elon & Clemson University: Engineering Course Equivalencies

| CU COURSE  | Bioeng.                    | Biosystems        | Civil        | Chemical        | Computer        | Electrical        | Enviro.        | Industrial                 | MSE        | Mech.                |
|--|----------------------------|-------------------|--------------|-----------------|-----------------|-------------------|----------------|----------------------------|------------|----------------------|
| <i>General Engineering Requirements: Highlighted in purple</i>   |                            |                   |              |                 |                 |                   |                |                            |            |                      |
| You must achieve a grade of 'C' or higher in all General Engineering courses before changing your major into a specific engineering major.<br>General Engineering courses are recommended prior to transfer, but not required. |                            |                   |              |                 |                 |                   |                |                            |            |                      |
| <b>CH 1010</b>   | CHM 111                    | CHM 111           | CHM 111      | CHM 111         | CHM 111         | CHM 111           | CHM 111        | CHM 111                    | CHM 111    | CHM 111              |
| <b>ENGL 1030</b>   | ENG 110                    | ENG 110           | ENG 110      | ENG 110         | ENG 110         | ENG 110           | ENG 110        | ENG 110                    | ENG 110    | ENG 110              |
| <b>ENGR 1020</b>   | N/A                        | N/A               | N/A          | N/A             | N/A             | N/A               | N/A            | N/A                        | N/A        | N/A                  |
| <b>ENGR 1410</b>   | *                          | *                 | *            | N/A             | *               | *                 | *              | *                          | *          | *                    |
| <b>MATH 1060</b>   | MTH 151                    | MTH 151           | MTH 151      | MTH 151         | MTH 151         | MTH 151           | MTH 151        | MTH 151                    | MTH 151    | MTH 151              |
| <b>MATH 1080</b>   | MTH 251                    | MTH 251           | MTH 251      | MTH 251         | MTH 251         | MTH 251           | MTH 251        | MTH 251                    | MTH 251    | MTH 251              |
| <b>PHYS 1220 + 1240</b>  | PHY 221                    | PHY 221           | PHY 221      | PHY 221         | PHY 221         | PHY 221           | PHY 221        | PHY 221                    | PHY 221    | PHY 221              |
| <i>Additional coursework that may be taken towards a Clemson University Engineering Degree</i>   |                            |                   |              |                 |                 |                   |                |                            |            |                      |
| <b>BIOL 1030 + 1050</b>  | BIO 111 + 113              | BIO 111 + 113     |              |                 |                 |                   | BIO 111 + 113  | BIO 111 + 113 <sup>a</sup> |            |                      |
| <b>BIOL 3150+3151</b>  | BIO 263+L                  |                   |              |                 |                 |                   |                |                            |            |                      |
| <b>CE 2010</b>   | EGR 206                    | EGR 206           | EGR 206      |                 |                 |                   | EGR 206        | EGR 206                    | EGR 206    | EGR 206 <sup>d</sup> |
| <b>CE 2060</b>   |                            |                   | EGR 306      |                 |                 |                   |                |                            |            |                      |
| <b>CE 2080</b>   |                            | EGR208            | EGR208       |                 |                 |                   | EGR208         |                            |            | EGR 206+208          |
| <b>CH 1020</b>   | CHM 112                    | CHM 112           |              | CHM 112         |                 | CHM 112           | CHM 112        | CHM 112 <sup>a</sup>       | CHM 112    |                      |
| <b>CH 2230 + 2270</b>  | CHM 211 <sup>c</sup>       | CHM 211           |              | CHM 211         |                 |                   | CHM 211        |                            | CHM 211    |                      |
| <b>CH 2240 + 2280</b>  | CHM 212 <sup>c</sup>       |                   |              | CHM 212         |                 |                   | CHM 212        |                            | CHM 212    |                      |
| <b>COMM 2500</b>   |                            |                   | IDS 115      |                 | IDS 115         | IDS 115           |                | IDS 115                    | IDS 115    |                      |
| <b>ECE 2070 + 2080</b>   | EGR 211 + 212 <sup>b</sup> |                   |              | EGR 211 + 212   |                 |                   |                | EGR 211 + 212              |            | EGR 211 + 212        |
| <b>EM 2020</b>   |                            | EGR 208           | EGR 208      |                 |                 |                   | EGR 208        |                            |            | EGR 208 <sup>d</sup> |
| <b>GEOL 1010 + 1030</b>  |                            |                   | PHY 103      |                 |                 |                   | PHY 103        | PHY 103 <sup>a</sup>       |            |                      |
| <b>MATH 2060</b>   | MTH 252                    | MTH 252           | MTH 252      | MTH 252         | MTH 252         | MTH 252           | MTH 252        | MTH 252                    | MTH 252    | MTH 252              |
| <b>MATH 2080</b>   | MTH 351                    | MTH 351           | MTH 351      | MTH 351         | MTH 351         | MTH 351           | MTH 351        |                            | MTH 351    | MTH 351              |
| <b>MATH 3110</b>   |                            |                   |              |                 | *               | * <sup>d</sup>    |                | *                          |            |                      |
| <b>ME 2010</b>   |                            |                   |              |                 |                 |                   |                |                            |            | EGR 206+208*         |
| <b>ME 3020</b>   |                            |                   |              |                 |                 |                   |                |                            |            | EGR 306              |
| <b>MICR 3050</b>   |                            | BIO 321           |              |                 |                 |                   | BIO 321        |                            |            |                      |
| <b>PHYS 2210 + 2230</b>  | PHY 222                    | PHY 222           | PHY 222      | PHY 222         | PHY 222         | PHY 222           | PHY 222        | PHY 222                    | PHY 222    | PHY 222              |
|  | <b>Bioeng.</b>             | <b>Biosystems</b> | <b>Civil</b> | <b>Chemical</b> | <b>Computer</b> | <b>Electrical</b> | <b>Enviro.</b> | <b>Industrial</b>          | <b>MSE</b> | <b>Mech.</b>         |

<sup>a</sup> Options to complete lab science requirement, choose one lab science course

<sup>c</sup> Encouraged for those hoping to pursue medical school *and/or* Both Organic courses are required for CU majors requiring the Survey of Organic

<sup>b</sup> For Bioengineering majors pursuing the Biomaterials concentration

<sup>d</sup> Only accepted for transfer in ME if both courses are completed prior to transfer

\*Must have BOTH Statics and Dynamics completed with C+ to earn ME 2010

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. Contact Admissions in 105 Sikes Hall, or 864-656-2287

This worksheet is intended as information only and does not imply a contract with Clemson University. All engineering curricula are available online at:

<http://www.registrar.clemson.edu/html/catalog.htm>. If you have questions or need advice, please contact the CECAS Transfer Coordinator:

Karen Thompson, M.Ed., CECAS Academic Advisor and Transfer Coordinator at [kt@clemson.edu](mailto:kt@clemson.edu) or 864-656-2543.

## Clemson University General Education Courses

| Elon Course   | Clemson Course | Course Title                               | Hum Lit (3cr) | Hum Non-Lit (3cr) | Social Science (6cr*) | CCA (3cr)* | STS (3cr)* |
|---------------|----------------|--|---------------|-------------------|-----------------------|------------|------------|
| ARH 210       | AAH 2100       | Intro. to Art and Architecture             |               | •                 |                       | •          |            |
| ANT 112       | ANTH 2010      | Introduction to Anthropology               |               |                   | •                     | •          |            |
| BIO 103       | BIOL 2010      | Biotech and Society                        |               |                   |                       |            | •          |
| ECO 111or 201 | ECON 2000      | Economic Concepts                          |               |                   | •                     |            |            |
| ENG 221       | ENGL 2130      | British Literature                         | •             |                   |                       |            |            |
| ENG 224       | ENGL 2140      | American Literature                        | •             |                   |                       |            |            |
| GEO 131       | GEOG 1030      | World Regional Geography                   |               |                   | •                     | •          |            |
| HST 121       | HIST 1010      | History of the U.S. (1 <sup>st</sup> part) |               |                   | •                     |            |            |
| HST 122       | HIST 1020      | History of the U.S. (2 <sup>nd</sup> part) |               |                   | •                     |            |            |
| HST 111       | HIST 1720      | Western Civilization I                     |               |                   | •                     | •          |            |
| HST 112       | HIST 1730      | Western Civilization II                    |               |                   | •                     | •          |            |
| HST 221       | HIST 1930      | Modern World History                       |               |                   | •                     | •          |            |
| PHL 113       | PHIL 1020      | Intro. To Logic                            |               | •                 |                       |            |            |
| PHL 210       | PHIL 1020      | Intro. To Logic                            |               | •                 |                       |            |            |
| PHL 115       | PHIL 1030      | Intro. To Ethics                           |               | •                 |                       |            |            |
| PHL 215       | PHIL 1030      | Intro. To Ethics                           |               | •                 |                       |            |            |
| PHY 110       | BIOL 2030      | Human Disease and Society                  |               |                   |                       |            | •          |
| POL 111       | PO SC 1010     | American National Government               |               |                   | •                     |            |            |
| POL 141       | PO SC 1020     | Intro. to International Relations          |               |                   | •                     | •          |            |
| POL 161       | PO SC 1040     | Intro. to Comparative Politics             |               |                   | •                     | •          |            |
| PSY 111       | PSYCH 2010     | Introduction to Psychology                 |               |                   | •                     |            |            |
| REL 101       | REL 1010       | Introduction to Religion                   |               | •                 |                       | •          |            |
| REL 102       | REL 1020       | World Religions                            |               | •                 |                       | •          |            |
| SOC 111       | SOC 2010       | Introduction to Sociology                  |               |                   | •                     |            |            |
| THE 101       | THEA 2100      | Theatre Appreciation                       |               | •                 |                       |            |            |

• The 5<sup>th</sup> (and ChE 6<sup>th</sup>) courses may be chosen from either of the two Humanities lists, or the Social Science list. Foreign Language courses qualify as a 5<sup>th</sup> or 6<sup>th</sup> Gen Ed. Other options are available, please discuss options with the CECAS Transfer Advisor. CORE courses will often qualify for specific Gen Ed credits, but will need individual review.

A “5<sup>th</sup>” Gen Ed is required by BE, ENVE, IE, and ME. A “6<sup>th</sup>” is required by CHE.

• Some courses may fulfill multiple requirements at one time and are noted by asterisks in multiple columns.

*Courses may change at the discretion of the university or engineering department. Not all courses are offered every semester.*