



Associate in Science (AS) to BS Engineering, Bioprocess Engineering Concentration

The sequence below is contingent on the student completing the AS degree from a college in the North Carolina Community College System.

| | ECU Course | ECU S.H. | NCCC S.H. | NCCCS Course Equivalent |
|------------------------|------------------------------------------------------------|-----------|-----------|--------------------------------------------------------|
| Freshman Year | | | | |
| Fall Semester | COAD 1xxx | 1 | 1 | ACA 122 |
| | ENGL 1100 (WI) ¹ | 3 | 3 | ENG 111 |
| | Math MATH 2171 Rec. | 4 | 4 | UGETC Course MAT 271 |
| | Humanities/Fine Arts Global Diversity Rec. ³ | 3 | 3 | UGETC Course |
| | CAA GEN ED CHEM 1150/51 Rec. | 4 | 4 | CAA GEN ED CHM 151 |
| | CAA Premajor/Elective ENGR 1000/12/16 Rec. ⁴ | 2 | 2 | CAA Premajor/Elective EGR 150 ⁴ |
| | Total: | 17 | 17 | |
| Spring Semester | ENGL 2201 (WI) ¹ | 3 | 3 | ENG 112 |
| | Social Science | 3 | 3 | UGETC Course |
| | Humanities/Fine Arts | 3 | 3 | UGETC Course |
| | Math MATH 2172 Rec. | 4 | 4 | UGETC Course MAT 272 |
| | CAA Premajor/Elective ENGR 1000/12/16 Rec. ⁴ | 3 | 3 | CAA Premajor/Elective DFT 170 ⁴ |
| | Total: | 16 | 16 | |
| Sophomore Year | | | | |
| Fall Semester | Social Science Domestic Diversity Rec. ³ | 3 | 3 | UGETC Course |
| | Natural Science PHYS 2350 Rec. | 4 | 4 | UGETC Course PHY 251 |
| | CAA GEN ED MATH 2173 Rec. | 4 | 4 | CAA GEN ED MAT 273 |
| | CAA GEN ED | 3 | 3 | CAA GEN ED |
| | CAA Premajor/Elective MATH 3256 Rec. ⁵ | 3 | 3 | CAA Premajor/Elective MAT 280 ⁵ |
| | Total: | 17 | 17 | |
| Spring Semester | Natural Science PHYS 2360 Rec. | 4 | 4 | UGETC Course PHY 252 |
| | CAA Premajor/Elective ENGR 2050 Rec. | 3 | 3 | CAA Premajor/Elective CSC 134 or CSC 151 or EGR 214 |
| | CAA Premajor/Elective MATH 4331 Rec. ⁵ | 3 | 3 | CAA Premajor/Elective MAT 285 ⁵ |
| | CAA Premajor/Elective ENGR 2022 Rec. | 3 | 3 | CAA Premajor/Elective EGR 220 |
| | Total: | 13 | 13 | |

| Summer Terms (at ECU) | | | | |
|-----------------------|-----------------------------|-----------|----------|----------------------|
| Summer Terms (at ECU) | ENGR 2070 | 3 | - | No Equivalent |
| | ENGR 2450 | 3 | - | No Equivalent |
| | CHEM 1160/61 | 4 | 4 | CHM 152 |
| | Total: | 10 | 4 | |
| Junior Year | | | | |
| Fall Semester | BIOE 3013 | 3 | - | No Equivalent |
| | CHEM 2750/53 | 4 | 4 | CHM 251 |
| | ENGR 2000 | 1 | - | No Equivalent |
| | ENGR 2514 | 4 | - | No Equivalent |
| | ENGR 3024 (WI) ¹ | 3 | - | No Equivalent |
| | Total: | 15 | 4 | |
| Spring Semester | BIOE 3250 | 3 | - | No Equivalent |
| | ENGR 3000 | 2 | - | No Equivalent |
| | ENGR 3034 | 4 | - | No Equivalent |
| | ENGR 3420 | 2 | - | No Equivalent |
| | MATH 3307 | 3 | - | No Equivalent |
| | Total: | 14 | 0 | |
| Senior Year | | | | |
| Fall Semester | BIOE 4006 | 2 | - | No Equivalent |
| | BIOE 4010 | 3 | - | No Equivalent |
| | ENGR 3800 | 3 | - | No Equivalent |
| | ENGR 4010 (WI) ¹ | 2 | - | No Equivalent |
| | HLTH 1000 | 2 | 3 | HEA 110 ² |
| | KINE 1000 | 1 | - | HEA 110 ² |
| | Total: | 13 | 3 | |
| Spring Semester | BIOE 4020 | 3 | - | No Equivalent |
| | BIOL 1050/51 or 1100/01 | 4 | 4 | BIO 110 or BIO 111 |
| | ENGR 3050 | 3 | - | No Equivalent |
| | ENGR 4020 (WI) ¹ | 2 | - | No Equivalent |
| | Total: | 12 | 4 | |

Minimum S.H. Required for Degree 128

The Bachelor of Science in Engineering requires a minimum of 128 semester hours. ECU requires a minimum 2.0 overall GPA and a minimum 2.0 major GPA for graduation.

¹Students enrolling at ECU must fulfill the writing across the curriculum requirement prior to graduation. To do so, each student must complete a minimum of 12 semester hours of writing intensive (WI) courses, including ENGL 1100 and ENGL 2201; at least 3 semester hours of WI courses in the major; and any other 3 semester hours WI course of the student's choice.

²Students who have successfully completed HEA 110 since the Fall 2016 term will earn ECU credit for both HLTH 1000 (2 hours) and KINE 1000 (1 hour). Students who completed HEA 110 prior to the Fall 2016 term and who have not also taken PED 110 will be responsible for meeting the Health-Related Physical Activity Competency component of the ECU General Education Program to meet degree requirements.

³Students enrolling at ECU are required to complete two three-hour diversity courses: one course with a domestic diversity (DD) focus and one with a global diversity (GD) focus. Courses that transfer to ECU as equivalent to an ECU course that is approved for diversity credit receive diversity credit. Transfer courses that are not equivalent to existing ECU diversity courses may be approved for diversity credit by the General Education and Instructional Effectiveness Committee. For a list of ECU courses that carry the DD and GD designation, visit the ECU catalog: <https://catalog.ecu.edu>

⁴Students must bundle EGR 150 and DFT 170 to receive credit for ENGR 1000 + 1012 + 1016.

⁵Students must bundle MAT 280 & MAT 285 to receive credit for MATH 3256 & MATH 4332 to apply as a substitution toward degree requirement of MATH 2154.

This plan reflects the degree program's requirements published in the 2018-2019 university catalog. All guides are meant as an example of how a degree can be completed. Course availability, prior credit, course prerequisites, major requirements, and student needs must be considered in developing an individual academic pathway.

Key:

UGETC - Universal General Education Transfer Component courses

CAA GEN ED - Additional General Education Hours (AA requires 13-14 hours; AS requires 11 hours)

Pre-Major/Elective - Courses classified as pre-major, electives, or general education courses within the CAA, of which ACA 122 is required