**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**ASSOCIATE IN ENGINEERING (A10500)**

Effective: Fall 2024

Revised: 02/07/24

Length: 4 Semesters

Prerequisites: High School Diploma, MAT-172 or Placement Test Equivalent

Award: Associate in Engineering

## Fall Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ACA122 | College Transfer Success | 0 | 2 | 0 | 1 |
| CHM151 | General Chemistry | 3 | 3 | 0 | 4 |
| EGR150 | Intro to Engineering | 1 | 2 | 0 | 2 |
| ENG111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
| MAT271 | Calculus I | 3 | 2 | 0 | 4 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **10** | **9** | **0** | **14** |

**Spring Semester 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ENG112 | Writing/Research in the Disc | 3 | 0 | 0 | 3 |
| MAT272 | Calculus II | 3 | 2 | 0 | 4 |
| PHY251 | General Physics I | 3 | 3 | 0 | 4 |
|  | Humanities Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **12** | **5** | **0** | **14** |

**Fall Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ECO251 | Principles of Microeconomics | 3 | 0 | 0 | 3 |
| PHY252 | General Physics II | 3 | 3 | 0 | 4 |
|  | Social Behav Sciences Elective | 3 | 0 | 0 | 3 |
|  | Pre-major Elective | 3 | 0 | 0 | 3 |
|  | Pre-major Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **15** | **3** | **0** | **16** |

**Spring Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| MAT273 | Calculus III | 3 | 2 | 0 | 4 |
|  | Fine Arts/Comm Elective | 3 | 0 | 0 | 3 |
|  | General Education Elective | 3 | 0 | 0 | 3 |
|  | Pre-major Elective | 3 | 0 | 0 | 3 |
|  | Pre-major Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **15** | **2** | **0** | **16** |

**TOTAL REQUIRED CREDITS.... 60**

**Work-Based Learning Option**: NA

**\*Note:** Students must select one elective course from each of the Humanities, Fine Arts/Comm, Social/Behavioral Sciences, and General Education categories. Students must select 11-12 SHC from the Pre-Major Electives category listed below. See your advisor for assistance in selecting courses appropriate to the specific university and engineering major requirements.

**Elective options:**

**Humanities:** ENG-231, ENG-232, ENG-241, ENG-242, PHI-215, PHI-240, REL-110

**Fine Arts/Comm:** ART-111, ART-114, ART-115, COM-231. MUS-110, MUS-112

**Social/Behavioral Sciences:** HIS-111, HIS-112, HIS-131, HIS-132, POL-120, PSY-150, SOC-210

**General Education:** BIO-111, CHM-152, COM-110, ECO-252, GEL-111, HUM-110, PHI-240

**Pre-Major:** BIO-111, CHM-152, CHM-251, CHM-252, COM-110, COM-231, CSC-134, CSC-151, DFT-170, ECO-252, EGR-210, EGR-212, EGR-214, EGR-215, EGR-216, EGR-220, EGR-225, EGR-228, GEL-111, HUM-110, MAT-280, MAT-285, PED-110

**Note:** The acceptance of transfer credit is ultimately up to the receiving institution. Where choices are available it is best to contact the institution you plan to attend to maximize your selection.