

# Electrical Engineering Technology - Power Systems Major

## Engineering & Information Technologies

2023-2024 Curriculum

| Course     | Title                                             | Pre-Reqs | Lec | Lab | Credit Hours |
|------------|---------------------------------------------------|----------|-----|-----|--------------|
| Semester 1 |                                                   |          |     |     |              |
| EET-100    | Introduction to Electrical Engineering Technology |          | 1   | 2   | 2            |
| EMET-110   | CAD for Electro-Mechanical Systems                |          | 2   | 3   | 3            |
| ENG-101    | English Composition 1                             |          | 3   | 0   | 3            |
| FYE-XXX    | First Year Experience Elective                    |          | 1   | 0   | 1            |
| MAT-XXX    | Math Elective 1                                   |          | 3   | 2   | 4            |

13

### Semester 2

|         |                              |                       |   |   |   |
|---------|------------------------------|-----------------------|---|---|---|
| CIT-190 | Career Prep                  |                       | 1 | 0 | 1 |
| EET-131 | Circuit Analysis 1           | Appropriate MAT level | 3 | 2 | 4 |
| ENG-10X | English Composition Elective | ENG 101               | 3 | 0 | 3 |
| MAT-XXX | Math Elective 2              |                       | 3 | 2 | 4 |

12

### Semester 3

|          |                                        |                  |   |    |   |
|----------|----------------------------------------|------------------|---|----|---|
| EET-132  | Circuit Analysis 2                     | EET 131, MAT 125 | 3 | 2  | 4 |
| EET-291  | Full-Time Cooperative Education 1: EET |                  | 1 | 40 | 2 |
| EMET-141 | Programmable Logic Controllers         | 125              | 2 | 3  | 3 |

9

### Semester 4

|          |                                             |                  |   |   |   |
|----------|---------------------------------------------|------------------|---|---|---|
| ECO-1XX  | Economics Elective                          | ENG 101          | 3 | 0 | 3 |
| EET-121  | Digital 1                                   | EET 131, MAT 121 | 2 | 3 | 3 |
| EMET-252 | Motors, Motor Controls, and Variable Drives | EET 132          | 2 | 3 | 3 |
| PSET-140 | Power Systems Foundations                   | EET 131          | 2 | 2 | 3 |

12

### Semester 5

|          |                                        |                    |   |   |   |
|----------|----------------------------------------|--------------------|---|---|---|
| NETC-121 | Network Comm 1                         | MAT 120            | 3 | 2 | 4 |
| PHY-XXX  | Physics Elective                       |                    | 3 | 3 | 4 |
| PSET-225 | Industrial and Commercial Power Design | PSET 140           | 3 | 3 | 4 |
| PSET-275 | Protective Relays and Controls         | EMET 240, PSET 225 | 2 | 3 | 3 |

15

### Semester 6

|          |                                        |          |   |    |   |
|----------|----------------------------------------|----------|---|----|---|
| EET-292  | Full-Time Cooperative Education 2: EET | PSET 291 | 1 | 40 | 2 |
| PSET-290 | Power Systems Capstone                 | PSET 225 | 1 | 2  | 2 |

4

Total **65**

Economics Elective: ECO 105, ECO 110

English Composition Elective: ENG 102, ENG 103, ENG 104, ENG 105

First Year Experience: FYE 100, FYE 105, FYE 110

Math Electives: Take one of the following series: (MAT 125 and MAT 126) or (MAT 251 and MAT 252)

Physics Elective: PHY 151, PHY 201