

CULLEN COLLEGE OF ENGINEERING TECHNOLOGY DIVISION

Bachelor of Science, Electrical Power Engineering Technology

Four-Year Academic Map 2023-2024

| YEAR 1 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|--------|-----------------------|------------------------------------|----------|-----------------------|-------------------------------------|----------|-------|----|
| | ELET 1400 | Circuit Theory I & Lab | 4 | ELET 1401 | Circuit Theory II & Lab | 4 | | |
| | MATH 2413 | Calculus I | 4 | MATH 2414 | Calculus II | 4 | | |
| | ENGL 1301 | First Year Writing I | 3 | ENGL 1302 | First Year Writing II | 3 | | |
| | PHYS 1301/1101 | College Physics I & Lab | 4 | PHYS 1302/1102 | College Physics II & Lab | 4 | | |
| | Semester Hours | | | 15 | Semester Hours | | | 15 |

| YEAR 2 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|----------------|---------------------------|---|----------|-----------------------|--|----------|-------|----|
| | ELET 2301/2101 | Poly-Phase Circuits & Transformers/Lab | 4 | ELET 2305/2105 | Semiconductor Dev & Circuits /Lab | 4 | | |
| | ELET 3307/3107 | Electrical Machines & Lab | 4 | ELET 2303/2103 | Digital Systems & Lab | 4 | | |
| | ELET 3300 or MATH 3321 | Applied Math for ET or Engineering Mathematics | 3 | ELET 2300 | Introduction to C++ Programming | 3 | | |
| | HIST 1301 | U. S. to 1877 | 3 | HIST 1302 | U.S. since 1877 | 3 | | |
| | CORE | Language, Philosophy & Culture | 3 | CORE | Creative Arts | 3 | | |
| Semester Hours | | | 17 | Semester Hours | | | 17 | 34 |

| YEAR 3 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|----------------|-----------------|-----------------------------------|----|-----------------------|--|----------|-------|----|
| | ELET 3301 | Linear Systems Analysis | 3 | ELET 4303/4103 | Power Distribution & Transportation/Lab | 4 | | |
| | ELET 3405 | Microprocessor Architecture | 4 | ELET 3312/3112 | PLCs & Motor Control/Lab | 4 | | |
| | TLIM 3363 | Technical Communication | 3 | TLIM 3340 | Org Leadership & Supervision | 3 | | |
| | MECT 1365 | Elements of Materials & Processes | 3 | MECT elec | See advisor | 3 | | |
| | CORE | Social & Behavioral Sciences | 3 | ELET Elective | ELET approved Elective | 3 | | |
| Semester Hours | | | 16 | Semester Hours | | | 17 | 33 |

| YEAR 4 | Semester 1 Fall | | | Semester 2 Spring | | | Total | |
|----------------|-----------------|--|----|-------------------|---|----------|-------|----|
| | ELET 4317 | Elect. Systems Safety & Protect | 3 | ELET 4319 | Elect. Power Sys & Industry Prac | 3 | | |
| | ELET 4305 | Senior Design in Electrical Power Engineering Technology | 3 | ELET 4105 | Senior Design in Electrical Power Engineering Technology Lab | 1 | | |
| | ELET 4326/4126 | Power Converter Circuits & Lab | 4 | ELET Elective | ELET approved Elective | 3 | | |
| | GOVT 2306 | US & Texas Constitution & Politics | 3 | GOVT 2305 | Federal Government | 3 | | |
| | MECT 4188 | Ethics in Engineering | 1 | Free Elective | | 3 | | |
| Semester Hours | | | 14 | Semester Hours | | | 13 | 27 |
| | | | | | | | 124 | |

Courses in Bold are important prerequisites and should be taken as early as students are able. Students should meet with their academic advisor to formulate their own plan.