

GUIDED PATHWAY

The following sequence is the suggested pathway to complete the degree in two years. This sequence is based on satisfaction of all basic skills requirements and prerequisites and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your academic advisor for other options and to monitor your progress.

Program Name: Engineering, AS - Electrical Focus

Program Student Learning Outcomes (SLOs):

1. Graduates will successfully transfer to a variety of engineering programs at four-year institutions (1, 2, 3, 4, 5, 6)
2. Graduates will apply mathematical and physical principles to solve traditional engineering problems (3)
3. Graduates will use technology to develop practical solutions to problems in science and engineering (3, 6)
4. Graduates will communicate engineering concepts and procedures effectively both written and verbally (2)
5. Graduates will understand the collaborative nature of the engineering profession and work effectively on projects as part of a group (2, 5)

Possible Prerequisites

| Course– Asterisk (*) indicates required program courses | AGEC course? | Terms** | Credits |
|---|--------------|---------|---------|
| CIS 120 | | F, SP | 3 |
| MAT 181 | | SP | 3 |

First Semester: Fall

| | | | |
|----------|-----|-----------|---|
| MAT 221* | Yes | F | 4 |
| EGR 102* | | F | 3 |
| CSC 110* | | F | 4 |
| ENG 101* | Yes | F, SP, SU | 3 |
| PSY 101 | Yes | F, SP, SU | 3 |

Second Semester: Spring

| | | | |
|----------|-----|-----------|---|
| MAT 231* | Yes | SP | 4 |
| PHY 115* | Yes | SP | 5 |
| ENG 102* | Yes | F, SP, SU | 3 |
| HUM 250 | Yes | F, SP | 3 |

Third Semester: Fall

| | | | |
|----------|-----|-------|---|
| MAT 241* | Yes | F | 4 |
| PHY 116* | Yes | F | 5 |
| CHM 151* | Yes | F | 4 |
| BUS 206 | Yes | F, SP | 3 |

Fourth Semester: Spring

| | | | |
|----------|-----|-------|---|
| MAT 260* | Yes | SP | 4 |
| CHM 152* | Yes | SP | 4 |
| PHI 101 | Yes | F, SP | 3 |
| EGR 202* | | SP | 5 |

Key:

SP= Spring

F= Fall

SU= Summer

1. Aesthetic Sensibilities: An awareness of creative expression in the world around us.
2. Communication Skills: The ability to effectively convey meaning through various media on both personal and professional levels.
3. Critical Thinking Skills and Problem-Solving: The ability to analyze data and arrive at logical and defensible conclusions.
4. Cultural Diversity and Global Awareness: An appreciation of relationships and differences in values, customs, and norms of diverse global communities.
5. Techniques of Inquiry: Use of standardized methodological framework to collect, analyze, interpret, and present findings.
6. Technological Competency: A proficiency in evolving technology to compete and flourish in society.

Total credits**64**

Optional Courses:**Electrical Focus**

- EGR 202

****terms not guaranteed**