

Electronics/Robotics • Manufacturing • Upskill Certificate

On-Campus or Hybrid

Semester Course Outline • 2022 – 2023

9 Months (2 Semesters) • Revised: 4/19/22

Credits Required for Certificate: 17



Fall Semester

| Course Number | Course Title | Clock Hours | Credits |
|---------------|-----------------------|-------------|---------|
| EST 116 | DC/AC Electronics | 112 | 4 |
| EST 121 | Digital Electronics A | 84 | 3 |
| EST 123 | Digital Electronics B | 28 | 1 |
| Total | | 224 | 8 |

Spring Semester

| Course Number | Course Title | Clock Hours | Credits |
|---------------|-------------------------------------|-------------|---------|
| ET 175 | Basic Motor Controls | 84 | 3 |
| RBTC 200 | Mechanical Design and 3D Modeling A | 56 | 2 |
| RBTC 203 | Mechanical Design and 3D Modeling B | 28 | 1 |
| RBTC 205 | Programmable Logic Controllers | 84 | 3 |
| Total | | 252 | 9 |