



Masters of Science in Electronics Engineering (MLENG)

Major Electives

| Code | Title | Credits | Prerequisites | Corequisites |
|-------|----------|---------|---------------|--------------|
| | Elective | 3 | | |
| | Elective | 3 | | |
| | Elective | 3 | | |
| | Elective | 3 | | |
| Total | | 12 | | |

Core Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|----------|---|---------|---------------|--------------|
| CENG651 | Computer Interfacing Circuits | 3 | EENG560 | CENG651L |
| CENG651L | Computer Interfacing Circuits Lab | 1 | EENG560 | CENG651 |
| EENG500 | Industrial Systems Automation and Control | 3 | | EENG500L |
| EENG500L | Industrial Systems Automation and Control Lab | 1 | | EENG500 |
| EENG551 | Analog Integrated Circuit Design | 3 | EENG612 | EENG551L |
| EENG551L | Analog Integrated Circuit Design Lab | 1 | EENG612L | EENG551 |
| Total | | 12 | | |

Major Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|----------|---------------------------------------|---------|---------------------------------------|--------------|
| EENG512 | Electronics for Communication Systems | 3 | | |
| EENG515 | Introduction to renewable Energy | 3 | | |
| EENG560 | Transducers, Sensors and Actuators | 3 | | |
| EENG585 | Introduction to Mechatronics | 3 | | |
| EENG602 | Electromagnetic Wave Propagation | 3 | EENG512 | |
| EENG612 | Introduction to VLSI | 3 | | EENG612L |
| EENG612L | Introduction to VLSI Lab | 1 | | EENG612 |
| EENG695A | Master Thesis(Part I) | 3 | EENG560 - EENG557 - EENG552 - EENG512 | |
| EENG695B | Master Thesis(Part II) | 3 | EENG695A | |
| Total | | 25 | | |

General Education Electives

| Code | Title | Credits | Prerequisites | Corequisites |
|-------|----------|---------|---------------|--------------|
| | Elective | 3 | | |
| Total | | 3 | | |

Major Elective Courses

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|--|---------|-----------------|--------------|
| EENG505 | Introduction to MEMS Technology | 3 | | |
| EENG527 | Digital Signal Processing | 3 | | |
| EENG541 | Microcontrollers Principles and Applications | 3 | | |
| EENG542 | Mixed Signal Circuit Design | 3 | EENG612-EENG551 | |
| EENG552 | Microfabrication Technology | 3 | | |

| | | | | |
|---------|---|---|---------|----------|
| EENG556 | Photovoltaic Energy Conversion | 3 | EENG515 | |
| EENG557 | Fiber Optics | 3 | | |
| EENG622 | Photovoltaic Energy Systems | 3 | EENG515 | |
| EENG652 | RF Integrated Circuit Design | 3 | EENG551 | |
| EENG662 | Analog Filter Design | 3 | EENG612 | |
| EENG680 | Digital Synthesis | 3 | EENG612 | |
| EENG688 | Special Topics in Electronics Engineering | 3 | | |
| EENG691 | Graduate Seminar | 1 | | EENG695A |