

ELECTRICAL ENGINEERING CURRICULUM

FRESHMAN YEAR

| Fall | | | Spring | | |
|-------------|----------------------------|----|---------------|---------------------------------|----|
| ENG 101 | Written Communications I | 3 | ENG 102 | Written Communications II | 3 |
| MAT 151 | Calculus I | 4 | MAT 152 | Calculus II | 4 |
| ELN 101 | Intro to Computing for ECE | 3 | PHY 204 | Intro to Physics II | 3 |
| PHY 203 | Intro to Physics I | 3 | PHY 216 | Intro to Physics Lab II | 1 |
| PHY 215 | Intro to Physics Lab I | 1 | EGR 102 | Intro to Structured Programming | 3 |
| EGR 101 | Intro to Engineering | 2 | HIS 106 | World Civilization | 3 |
| UNV 101 | Individual & Life | 1 | | | |
| | | 17 | | | 17 |

SOPHOMORE YEAR

| FALL | | | SPRING | | |
|-------------|------------------------|----|---------------|-------------------------|----|
| CHE 201 | General Chemistry I | 4 | COM 103 | Oral Communications | 3 |
| MAT 260 | Differential Equations | 3 | MAT 208 | Linear Algebra | 3 |
| EGR 213 | Digital Electronics | 3 | MAT 251 | Calculus III | 4 |
| EGR 218 | Circuit Analysis I | 3 | ELN 302 | Circuit Analysis II | 3 |
| EGR 220 | ECE Lab I | 2 | ELN 302 | Circuit Analysis Lab II | 1 |
| | | 15 | | | 14 |

JUNIOR YEAR

| FALL | | | SPRING | | |
|-------------|-------------------------------|----|---------------|-----------------------------|----|
| ELN 303 | Engineering Electronics I | 3 | EGR 204 | Engineering Ethics & Safety | 3 |
| ELN 311 | Engineering Electronics Lab I | 1 | EGR 303 | Engineering Materials | 3 |
| EGR 315 | Engineering Economy | 3 | HUM 201 | Humanities | 3 |
| MAT 305 | Probability & Statistics | 3 | ELN 306 | Electromagnetic Waves | 3 |
| ELN 307 | Signals & Systems | 3 | ELN 412 | Communication Theory | 3 |
| HEA 200 | Health Education | 2 | ELN 313 | ECE Lab II | 2 |
| | | 15 | | | 17 |

SENIOR YEAR

| FALL | | | SPRING | | |
|-------------|---------------------------------|----|---------------|----------------------------------|----|
| ELN 409 | Electrical Engineering Design I | 3 | ELN 413 | Electrical Engineering Design II | 3 |
| ELN | Technical Elective | 3 | ELN | Technical Elective | 3 |
| ELN 408 | Intro to Control Systems | 3 | ELN | Technical Elective | 3 |
| ELN 411 | Energy Conversion | 3 | ELN | Technical Elective | 3 |
| ELN 435 | ECE Lab 3 | 1 | | | |
| | | 13 | | | 12 |

TOTAL CREDITS 120