

Computer Engineering

Traditional Track

| FRESHMAN YEAR 1 | | | | | | |
|-------------------------|-------------------------------------|----|--|---------|---|------------|
| FALL | | CR | | SPRING | CR | |
| ENG 101 | Written Communication I | 3 | | ENG 102 | Written Communication II | 3 |
| EGR 101 | Introduction to Engineering | 2 | | EGR 102 | Intro to Structured Programming | 3 |
| UNV 101 | Individual & Life | 1 | | MAT 152 | Calculus II | 4 |
| MAT 151 | Calculus I | 4 | | PHY 204 | Intro to Physics II (Calculus-Based) | 3 |
| PHY 203 | Intro to Physics I (Calculus-Based) | 3 | | PHY 216 | Intro to Physics Lab II | 1 |
| PHY 215 | Intro to Physics Lab I | 1 | | HIS 106 | World Civilization II | 3 |
| ELN 101 | Intro to Computing for ECE | 3 | | | | |
| | Total | 17 | | | Total | 17 |
| SOPHOMORE YEAR 2 | | | | | | |
| FALL | | | | SPRING | | |
| EGR 218 | Circuit Analysis I | 3 | | ELN 302 | Circuit Analysis II | 3 |
| EGR 220 | Circuits Analysis Lab I | 2 | | ELN 310 | Circuit Analysis Lab II | 1 |
| MAT 260 | Differential Equations | 3 | | MAT 208 | Elementary Linear Algebra | 3 |
| EGR 213 | Digital Electronics | 3 | | ELN 215 | Computer Architecture I | 3 |
| CSC 151 | Computer Programming I | 4 | | CSC 152 | Computer Programming II | 3 |
| | | | | | 200-level Technical Elective (EGR, PHY, MAT, CHM) | 3 |
| | Total | 15 | | | Total | 16 |
| JUNIOR YEAR 3 | | | | | | |
| FALL | | | | SPRING | | |
| ELN 303 | Engineering Electronics I | 3 | | CHE 201 | General Chemistry I | 4 |
| ELN 311 | Engineering Electronics Lab I | 1 | | ELN 515 | Microcontrollers & Embedded Sys. | 3 |
| ELN 403 | Digital Electronics Design | 3 | | EGR 204 | Engineering Ethics & Safety | 3 |
| EGR 315 | Engineering Economy | 3 | | MAT 315 | Discrete Structures | 3 |
| ELN 307 | Signals & Systems | 3 | | HEA 200 | Health Education/Physical Education | 2 |
| MAT 305 | Probability & Statistics | 3 | | | | |
| | Total | 16 | | | Total | 15 |
| SENIOR YEAR 4 | | | | | | |
| FALL | | | | SPRING | | |
| ELN 482 | Computer Engineering Design I | 3 | | ELN 483 | Computer Engineering Design II | 3 |
| COM 103 | Oral Communication | 3 | | | | |
| HUM 201 | Humanities I | 3 | | ELN 4XX | Communications Technical Elective | 3 |
| | Technical Elective | 3 | | | Technical Elective | 3 |
| | | | | | Social Science Elective | 3 |
| | Total | 12 | | | Total | 12 |
| Total Hours | | | | | | 120 |

Computer Engineering

Cyber Track

| FRESHMAN YEAR 1 | | | | | | |
|-------------------------|--|----|--|---------------|---|----|
| FALL | | CR | | SPRING | CR | |
| ENG 101 | Written Communication I | 3 | | ENG 102 | Written Communication II | 3 |
| EGR 101 | Introduction to Engineering | 2 | | EGR 102 | Intro to Structured Programming | 3 |
| UNV 101 | Individual & Life | 1 | | MAT 152 | Calculus II | 4 |
| MAT 151 | Calculus I | 4 | | PHY 204 | Intro to Physics II (Calculus-Based) | 3 |
| PHY 203 | Intro to Physics I (Calculus-Based) | 3 | | PHY 216 | Intro to Physics Lab II | 1 |
| PHY 215 | Intro to Physics Lab I | 1 | | HIS 106 | World Civilization II | 3 |
| ELN 101 | Intro to Computing for ECE | 3 | | | | |
| | Total | 17 | | | Total | 17 |
| SOPHOMORE YEAR 2 | | | | | | |
| FALL | | CR | | SPRING | CR | |
| EGR 218 | Circuit Analysis I | 3 | | ELN 302 | Circuit Analysis II | 3 |
| EGR 220 | Circuits Analysis Lab I | 2 | | ELN 310 | Circuit Analysis Lab II | 1 |
| MAT 260 | Differential Equations | 3 | | MAT 208 | Elementary Linear Algebra | 3 |
| EGR 213 | Digital Electronics | 3 | | ELN 215 | Computer Architecture I | 3 |
| CSC 151 | Computer Programming I | 4 | | CSC 152 | Computer Programming II | 3 |
| | | | | | 200-level Technical Elective (EGR, PHY, MAT, CHM) | 3 |
| | Total | 15 | | | Total | 16 |
| JUNIOR YEAR 3 | | | | | | |
| FALL | | CR | | SPRING | CR | |
| ELN 303 | Engineering Electronics I | 3 | | CHE 201 | General Chemistry I | 4 |
| ELN 311 | Engineering Electronics Lab I | 1 | | ELN 515 | Microcontrollers & Embedded Sys. | 3 |
| ELN 403 | Digital Electronics Design | 3 | | ELN 362 | Computer Network Security | 3 |
| ELN 360 | Intro to Cyber Physical Systems Security | 3 | | MAT 315 | Discrete Structures | 3 |
| ELN 307 | Signals & Systems | 3 | | HEA 200 | Health Education/Physical Education | 2 |
| MAT 305 | Probability & Statistics | 3 | | | | |
| | Total | 16 | | | Total | 15 |
| SENIOR YEAR 4 | | | | | | |
| FALL | | CR | | SPRING | CR | |
| ELN 482 | Computer Engineering Design I | 3 | | ELN 483 | Computer Engineering Design II | 3 |
| COM 103 | Oral Communication | 3 | | EGR 204 | Engineering Ethics & Safety | 3 |
| ELN 460 | Embedded Systems Security | 3 | | ELN 462 | Quantum Communication Systems | 3 |
| EGR 315 | Engineering Economy | 3 | | HUM 201 | Humanities I | 3 |
| | | | | | | |
| | | | | | | |
| | Total | 12 | | | Total | 12 |
| Total Hours | | | | | 120 | |