

Electrical Engineering 5 Year Plan of Study for ROTC Students

First Year

| FALL | | | SPRING | | |
|---------------------------|-------------------------------|----------------|---------------------------|-------------------------------|--------------|
| Course | Course Title | Credits | Course | Course Title | Credits |
| CHEM 1035 | General Chemistry | 3 | ENGE 1216 | Foundations of Engineering | 2 |
| CHEM 1045 | General Chemistry Lab | 1 | ENGL 1106 | First-Year Writing | 3 |
| ENGE 1215 | Foundations of Engineering | 2 | MATH 1226 | Calculus of a Single Variable | 4 |
| ENGL 1105 | First-Year Writing | 3 | PHYS 2305 | Foundations of Physics | 4 |
| MATH 1225 | Calculus of a Single Variable | 4 | | | |
| | ROTC | Varies | | ROTC | Varies |
| Total Credit Hours | | 15 - 18 | Total Credit Hours | | 15-18 |

Second Year

| FALL | | | SPRING | | |
|---------------------------|--------------------------|--------------|---------------------------|--------------------------------|--------------|
| Course | Course Title | Credits | Course | Course Title | Credits |
| ECE 1574 | Eng Prob Solv w/ C++ | 3 | ECE 2004 | Circuit Analysis | 3 |
| MATH 1114 | Elem. Linear Algebra | 2 | ECE 2074 | Electric Circuit Analysis Lab | 1 |
| MATH 2114 | Intro. To Linear Algebra | 3 | ECE 2014 | Engineering Prof in ECE | 2 |
| PHYS 2306 | Foundations of Physics | 4 | ECE 2504 | Intro. to Computer Engineering | 3 |
| ISE 2014 | Engineering Economy | 2 | MATH 2214 | Differential Equations | 3 |
| | Area 2 | 3 | | | |
| | ROTC | Varies | | ROTC | Varies |
| Total Credit Hours | | 15-18 | Total Credit Hours | | 13-17 |

Third Year

| FALL | | | SPRING | | |
|---------------------------|-------------------------------|----------------|---------------------------|-------------------------|--------------|
| Course | Course Title | Credits | Course | Course Title | Credits |
| ECE 2204 | Electronics | 3 | ECE 2534 | Microncntlr. Intefacing | 4 |
| ECE 2274 | Electronic Networks Lab I | 1 | ECE 3004 | AC Circuit Analysis | 3 |
| ECE 2704 | Signals and Systems | 3 | ECE 3074 | AC Circuit Analysis Lab | 1 |
| MATH 2204 | Intro. Multivariable Calculus | 3 | STAT 4714 | Prob & Stat for ECE | 3 |
| | Area 2 | 3 | | Area 6 | 1 |
| | ROTC | Varies | | ROTC | Varies |
| Total Credit Hours | | 14 - 19 | Total Credit Hours | | 13-18 |

Fourth Year

| FALL | | | SPRING | | |
|---------------------------|--------------------------|----------------|---------------------------|---------------------------|--------------|
| Course | Course Title | Credits | Course | Course Title | Credits |
| ECE 3105 | Electromagnetic Fields I | 3 | ECE 3106 | Electromagnetic Fields II | 3 |
| ECE 3704 | Cont. & Disc. Systems | 3 | ECE 3204 | Analog Electronics | 3 |
| ECE 3304 | Intro Power Systems | 3 | ECE 3274 | Electronic Circuit Lab II | 1 |
| ECE 3354 | Power Lab | 1 | ENGL 3764 | Technical Writing | 3 |
| ECE 3614 | Intro. Comm. Systems | 3 | | Eng and Science Elective | 3 |
| | ROTC | Varies | | ROTC | Varies |
| Total Credit Hours | | 14 - 19 | Total Credit Hours | | 14-19 |

Fifth Year

| FALL | | | SPRING | | |
|---------------------------|-----------------------|----------------|---------------------------|-----------------------|--------------|
| Course | Course Title | Credits | Course | Course Title | Credits |
| ECE 4805 | Senior Design Project | 3 | ECE 4806 | Senior Design Project | 3 |
| | EE Technical Elective | 3 | | EE Technical Elective | 3 |
| | MATH Elective | 3 | | EE Technical Elective | 3 |
| | Area 3 | 3 | | Area 7 | 3 |
| | Area 3 | 3 | | | |
| | ROTC | Varies | | ROTC | Varies |
| Total Credit Hours | | 15 - 17 | Total Credit Hours | | 12-16 |