

Electrical Concentration Guideline

FIRST YEAR

| <u>FALL</u> | | <u>SPRING</u> | |
|-------------------------------|---|---|---|
| CHEM 105 Chemistry | 4 | MATH 112 Calculus II | 4 |
| MATH 111 Calculus I | 4 | PHYS 211 General Physics I | 4 |
| ENGR 102 Intro to Engineering | 2 | ENGR 101 Engineering Graphics | 2 |
| IDFY 101 First Year Seminar | 3 | ENGR 262 Circuit Analysis | 4 |
| General Education | 3 | IDCR 151 Created & Called for Community | 3 |
| | <hr style="width: 50%; margin: 0 auto;"/> | ENGR 201 Group Orientation* | 3 |
| | 16 | | <hr style="width: 50%; margin: 0 auto;"/> |
| | | | 17 |

SECOND YEAR

| <u>FALL</u> | | <u>SPRING</u> | |
|------------------------------|---|----------------------------------|---|
| MATH 211 Calculus III | 4 | MATH 308 Differential Equations | 3 |
| MATH 261 Linear Algebra | 3 | **CIS 181 Computer Programming I | 3 |
| PHYS 212 General Physics II | 4 | ENGR 201 Group Orientation | 1 |
| ENGR 231 Engineering Statics | 3 | ENGR 242 Experimental Methods | 3 |
| General Education | 3 | Physical Fitness | 1 |
| | <hr style="width: 50%; margin: 0 auto;"/> | General Education | 6 |
| | 17 | | <hr style="width: 50%; margin: 0 auto;"/> |
| | | | 17 |

THIRD YEAR

| <u>FALL</u> | | <u>SPRING</u> | |
|------------------------------|---|--------------------------------------|---|
| ENGR 288 Project I | 1 | ENGR 290 Engineering Economics | 2 |
| ENGR 301 Seminar I | 1 | ENGR 302 Seminar II | 1 |
| ENGR 340 Analog Electronics | 3 | ENGR 342 Microprocessor Applications | 4 |
| ENGR 349 Digital Electronics | 3 | ENGR 364 Electronic Devices | 4 |
| ENGR 367 Electromagnetics | 3 | ENGR 365 Linear Systems | 3 |
| PHED 101 Intro. to Wellness | 2 | ENGR 388 Project II | 1 |
| General Education | 3 | General Education | 3 |
| | <hr style="width: 50%; margin: 0 auto;"/> | | <hr style="width: 50%; margin: 0 auto;"/> |
| | 16 | | 18 |

FOURTH YEAR

| <u>FALL</u> | | <u>SPRING</u> | |
|--------------------------|---|----------------------------------|---|
| ENGR 366 Control Systems | 4 | **ENGR 254 Materials Engineering | 4 |
| ENGR 488 Project III | 2 | ENGR 369 Communications Systems | 3 |
| General Education | 9 | ENGR 489 Project IV | 2 |
| | <hr style="width: 50%; margin: 0 auto;"/> | General Education | 6 |
| | 15 | | <hr style="width: 50%; margin: 0 auto;"/> |
| | | | 15 |

Total Credits 131

*Requires department approval.

**Course can be taken any time after the second semester.