

Department of Electrical and Computer Engineering

Stark State College + The University of Akron

B.S. Electrical Engineering

149 credits

| Fall [%] | | | First Year | | | Summer | | |
|-------------------|-------------------------------------|----|---------------------|-----------------------------------|----|--------|--|--|
| | | | Spring [%] | | | | | |
| CHM 141 | Principles of Chem 1 (w/lab) | 5 | ENG 221 | Technical Report Writing | 3 | | | |
| ETD 121 | Engineering Student Success Seminar | 1 | MTH 224 | Analytical Geometry w/ Calculus 2 | 4 | | | |
| ENG 124 | College Composition | 3 | SOC 225 | Cultural Diversity | 3 | | | |
| MTH 223 | Analytical Geometry w/ Calculus 1 | 4 | EET 122 | AC Circuit Analysis [#] | 4 | | | |
| EET 120 | DC Circuit Analysis [#] | 4 | | Gen Ed: Humanities (TAG) | 3 | | | |
| | | 17 | | | 17 | | | |

| Fall [%] | | | Second Year | | | Summer | | |
|-------------------|---------------------------------------|----|---------------------|---------------------------|----|----------|----------------------|---|
| | | | Spring [%] | | | | | |
| PHY 221 | General Physics 1 (w/lab) | 5 | COM 121 | Effective Speaking | 3 | 4400:330 | Circuits 2 Lab | 1 |
| MTH 225 | Analytical Geometry w/ Calculus 3 | 4 | MTH 227 | Differential Equations | 3 | 4400:332 | Circuits 2 | 3 |
| MET 124 | Statics & Strength of Materials | 4 | ECA 222 | C++ Programming | 3 | 4450:220 | Digital Logic Design | 4 |
| ECA 127 | Programming Logic and Problem Solving | 3 | | Gen Ed: Humanities (TAG) | 3 | | | |
| CST 121 | Modeling and Simulation | 3 | PHY 222 | General Physics 2 (w/lab) | 5 | | | |
| | | 19 | | | 17 | | | 8 |

| Fall | | | Third Year | | | Summer | | |
|----------|-----------------------|----|------------|--|--|----------|-----------------------------|---|
| | | | Spring | | | | | |
| 4400:340 | Signals & Systems | 4 | | | | 3470:401 | Prob. & Stat. for Engineers | 2 |
| 4400:360 | Physical Electronics | 3 | | | | 4x00:305 | Thermal/Material Sci | 2 |
| 4400:353 | Electromagnetics 1 | 4 | | | | | Social Sciences Elective | 3 |
| 4400:381 | Energy Conversion | 4 | | | | | | |
| 4x00:20x | Mech. Solids/Dynamics | 3 | | | | | | |
| | | 18 | | | | | | 7 |

| Fall | | | Fourth Year | | | Summer | | |
|------|--|--|-------------|------------------------|----|--------|--|--|
| | | | Spring | | | | | |
| | | | 4400:309 | Design Project Seminar | 1 | | | |
| | | | 4400:341 | Intro. Comm. Systems | 3 | | | |
| | | | 4400:354 | Electromagnetics 2 | 3 | | | |
| | | | 4400:361 | Electronic Design | 4 | | | |
| | | | 4400:371 | Controls 1 | 4 | | | |
| | | | 5540:xxx | Physical Education | 1 | | | |
| | | | | | 16 | | | |

| Fall | | | Fifth Year | | | Summer | | |
|----------------------------|--|----|------------|--------------------------|----|--------|--|--|
| | | | Spring | | | | | |
| 4400:401 | Senior Design Project 1 | 2 | 4400:402 | Senior Design Project 2 | 3 | | | |
| | Electrical Eng. Elective | 3 | | Electrical Eng. Elective | 3 | | | |
| | Electrical Eng. Elective | 3 | | Electrical Eng. Elective | 3 | | | |
| | Electrical Eng. Elective | 3 | | Electrical Eng. Elective | 3 | | | |
| 3400:210 or 3400:221 | Humanities in the W. Trad. 1 or Humanities in the World since 1300 | 4 | | Social Sciences Elective | 3 | | | |
| | | 15 | | | 15 | | | |

Notes:

% -- Blue courses (Fall, Spring for First and Second Year) are at Stark State College.

* -- While co-op is not mandatory, students can graduate with a B.S. Electrical Engineering with Co-Op degree upon completion of three co-op semesters.

-- A student earning a combined average of less than a "B" in EET 120 and EET 122 at SSC MUST complete 4400:230 and 4400:231 before taking 4400:330 and 4400:332