

Bachelor of Science in Electrical Engineering -- 126 Credits

JEE-BSE (RG 7274)
Effective August 2015

Worlds of Knowledge (RQ 3629)

| Aesthetic and Creative Expression | | | | |
|-----------------------------------|--------|--------------|----|----------------|
| Subject | Number | Course Title | CR | Satisfied/Term |
| | | | 3 | |

| Global History & Culture | | | | |
|--------------------------|--------|--------------|----|----------------|
| Subject | Number | Course Title | CR | Satisfied/Term |
| | | | 3 | |

| Societies & Civics | | | | |
|--------------------|--------|--------------|----|----------------|
| Subject | Number | Course Title | CR | Satisfied/Term |
| | | | 3 | |

Each student must take 1 course in each of the following Worlds of Knowledge.
Each student must take two additional "Follow-Up" courses from any of the following Worlds of Knowledge.
The minimum number of courses taken in the Worlds must be 5.
(No electives may be taken from the World of Science & Nature)

| Follow-Up Courses | | | | |
|-------------------|--------|--------------|----|----------------|
| Subject | Number | Course Title | CR | Satisfied/Term |
| | | | | |

Freshman Year Curriculum (RG 7274)

| Freshman Year Curriculum - 1st Term (RQ 3428) | | | | |
|---|------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| Chem 0150 | General Chem Eng 1 | | 3 | |
| Engcmp 0005 | Composition 1 | | 3 | |
| Engr 0017 | Intro to Eng Analysis | | 3 | |
| Engr 0081 | Freshman Seminar 1 | | 0 | |
| Math 0221 | Analytic Geom & Calc 1 | | 4 | |
| Phys 0150 | Physics 1 | | 4 | |
| Requirement Satisfied | | | 17 | |

| Freshman Year Curriculum - 2nd Term (RQ 3429) | | | | |
|---|------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| Chem 0151 | General Chem Eng 2 | | 3 | |
| Engr 0018 | Intro Eng Computing | | 3 | |
| Engr 0082 | Freshman Seminar 2 | | 0 | |
| Math 0231 | Analytic Geom & Calc 2 | | 4 | |
| Phys 0152 | Physics for Eng 2 | | 4 | |
| Requirement Satisfied | | | 14 | |

Sophomore Year Curriculum (RG 7274)

| Soph Year Curriculum - 3rd Term (RQ 3430) | | | | |
|---|------------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| Commrc 0052 | Public Speaking | | 3 | |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 0031 | Linear Circuits & Systems 1 | | 3 | |
| EE 0132 | Digital Logic | | 3 | |
| EE 0445 | Prog & Intro Data Structures | | 3 | |
| EE 0500 | Digital & Circuits Lab | | 1 | |
| Math 0241 | Analytic Geom & Calc 3 | | 4 | |
| Requirement Satisfied | | | 17 | |

| Soph Year Curriculum - 4rd Term (RQ 3431) | | | | |
|---|----------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 0142 | Computer Organization | | 3 | |
| EE 0257 | Analy/Design Electric Circ | | 3 | |
| EE 0501 | Digital & Electronics Lab | | 2 | |
| EE 1771 | Electric Machines | | 3 | |
| EE 1071 | Electric Machines Lab | | 1 | |
| Math 1271 | Differential Equations | | 3 | |
| Requirement Satisfied | | | 15 | |

Junior Year Curriculum (RG 7274)

| Junior Year Curriculum - 5th Term (RQ 3432) | | | | |
|---|---------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 1059 | Electromagnetics Lab | | 1 | |
| EE 1201 | Elect Measure/Circuit Lab | | 2 | |
| EE 1259 | Electromagnetics | | 3 | |
| EE 1247 | Semiconductor Devices | | 3 | |
| EE 1552 | Signal and Systems Analy | | 3 | |
| Engr 0020 | Prob & Stats for Engr 1 | | 4 | |
| Requirement Satisfied | | | 16 | |

| Junior Year Curriculum - 6th Term (RQ 3433) | | | | |
|---|---------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 1212 | Electro Circuit Desg Lab | | 3 | |
| EE 1541 | Computer Architecture | | 4 | |
| EE 1563 | Signals Theory / Practice | | 3 | |
| Math 1181 | Linear Algebra | | 3 | |
| Requirement Satisfied | | | 13 | |

Senior Year Curriculum (RG 7274)

| Senior Year Curriculum - 7th Term (RQL 3434) | | | | |
|--|--------------------------|--|-----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 1195 | Engr Practice & Prof Dev | | 2 | |
| EE 1673 | Control Systems | | 3 | |
| EE 1073 | Control Systems Lab | | 1 | |
| EE 1769 | Power Systems 1 | | 4 | |
| EE 1772 | Communication Systems | | 4 | |
| Requirement Satisfied | | | 14 | |

| Senior Year Curriculum - 8th Term (RQ 3435) | | | | |
|---|-------------------------|--|----------|----------------|
| Complete the following Courses | | | CR | Satisfied/Term |
| ECE 1885 | Dept Seminar | | 0 | |
| EE 1199 | Senior Design: Elective | | 2 | |
| Requirement Satisfied | | | 2 | |

| Technical Electives (RQL 3435-30) | | | | |
|---------------------------------------|------------------------------|--|------------|--|
| Complete one of the following Courses | | | | |
| EE 1770 | Power Systems II | | 3 | |
| EE 1177 | Measurement & Indust Control | | 3 | |
| EE 1773 | Digital Communication Sys | | 3 | |
| COE 1504 | Advanced Digital Systems | | 4 | |
| Requirement Satisfied | | | 3-4 | |

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 09/27/21