



Alfaisal University
Bachelor of Electrical Engineering
Study Plan Summary
Effective: Fall 2019



| | | |
|----------|--------------------|----------------------|
| Student: | ID#: | Email: |
| Advisor: | Starting Semester: | Expected Graduation: |

4-Year Curriculum: 137 Credit Hours Total.

| Freshman Year - Fall Semester | | | | |
|-------------------------------|---------------------------------------|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| SE 100 | Programming for Engineers | 3 | | |
| SE 100 L | Programming for Engineers Lab | 1 | | |
| CHM 102 | Introduction to Chemistry | 3 | | |
| CHM 102 L | Introduction to Chemistry Lab | 1 | | |
| MAT 101 | Calculus I | 3 | | |
| PHU 103 | Mechanics and Waves for Engineers | 3 | | |
| PHU 103 L | Mechanics and Waves for Engineers Lab | 1 | | |
| ENG 101 | Freshman English I | 3 | | |
| Total | | 18 | | |

| Freshman Year - Spring Semester | | | | |
|---------------------------------|---|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| ME 201 | Material Science and Engineering | 3 | | |
| ME 201 L | Material Science and Engineering Lab | 1 | | |
| MAT 112 | Calculus II | 3 | | |
| PHU 124 | Electromagnetism and Optics for Engineers | 3 | | |
| PHU 124 L | Electromagnetism and Optics for Engineers Lab | 1 | | |
| ARB 101 | Arabic Language I | 2 | | |
| ENG 112 | Freshman English II | 3 | | |
| Total | | 16 | | |

| Sophomore Year - Fall Semester | | | | |
|--------------------------------|---|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 207 | Foundations of Electrical Engineering | 3 | | |
| EE 207 L | Foundations of Electrical Engineering Lab | 1 | | |
| MAT 211 | Calculus III | 3 | | |
| MAT 212 | Linear Algebra | 3 | | |
| MAT 213 | Differential Equations | 3 | | |
| ENG 222 | Technical Writing | 3 | | |
| ISL 101 | Islamic Studies I | 2 | | |
| Total | | 18 | | |

| Sophomore Year - Spring Semester | | | | |
|----------------------------------|----------------------------|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 208 | Electric Circuits | 3 | | |
| EE 209 | Applied Electromagnetics | 3 | | |
| EE 210 | Digital Logic Systems | 3 | | |
| EE 210 L | Digital Logic Systems Lab | 1 | | |
| MAT 224 | Numerical Methods | 3 | | |
| STA 212 | Probability and Statistics | 3 | | |
| ARB 112 | Arabic Language II | 2 | | |
| Total | | 18 | | |

| Junior Year - Fall Semester | | | | |
|-----------------------------|---------------------------|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 301 | Signals and Systems | 3 | | |
| EE 303 | Intro to Electronics | 3 | | |
| EE 303 L | Intro to Electronics Lab | 1 | | |
| EE 305 | Computer Networks | 3 | | |
| EE 305 L | Computer Networks Lab | 1 | | |
| EE 307 | Computer Architecture | 3 | | |
| EE 307 L | Computer Architecture Lab | 1 | | |
| ISL 112 | Islamic Studies II | 2 | | |
| Total | | 17 | | |

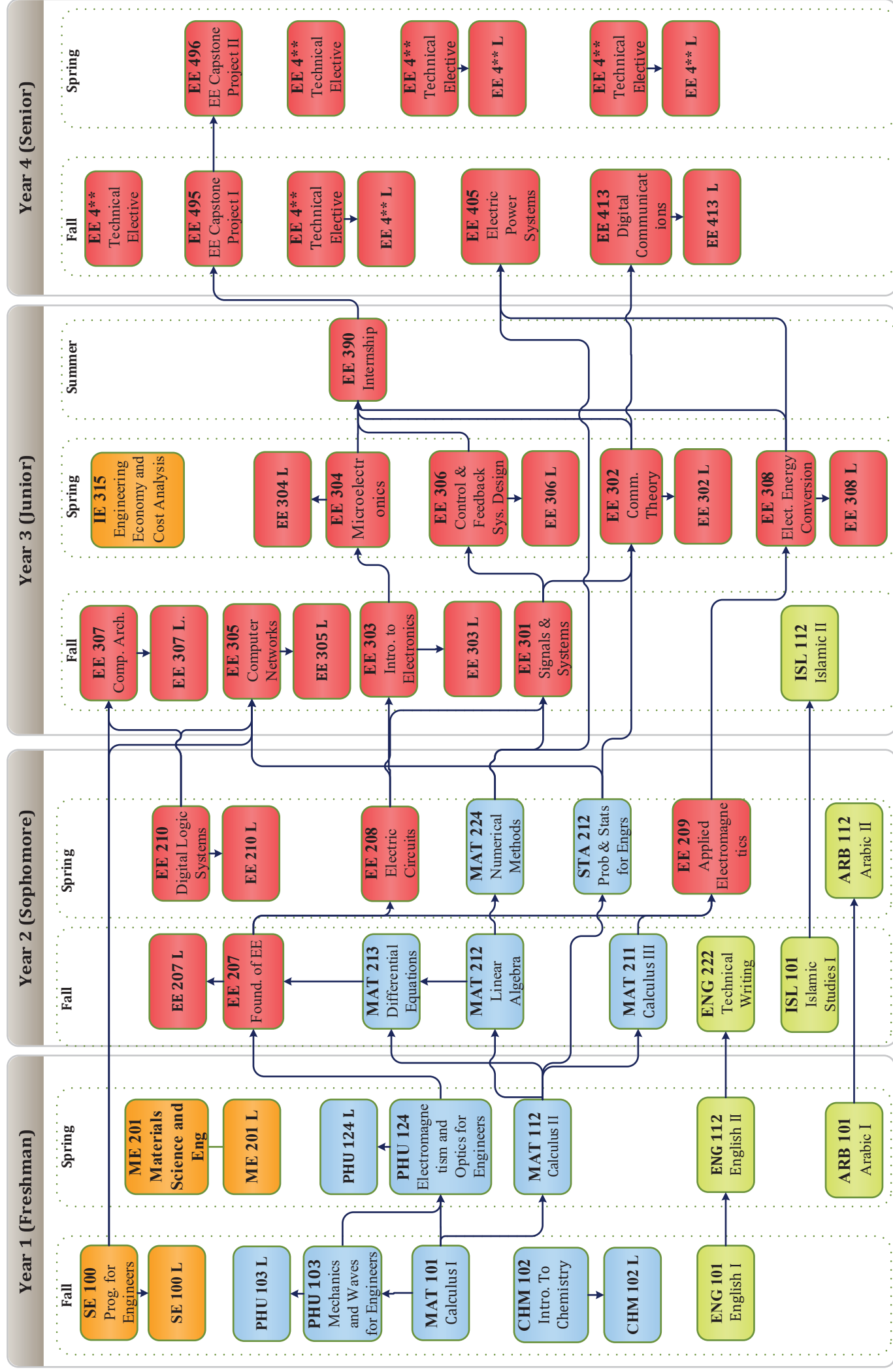
| Junior Year - Spring Semester | | | | |
|-------------------------------|--|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 302 | Communications Theory | 3 | | |
| EE 302 L | Communications Theory Lab | 1 | | |
| EE 304 | Microelectronics | 3 | | |
| EE 304 L | Microelectronics Lab | 1 | | |
| EE 306 | Control and Feedback System Design | 3 | | |
| EE 306 L | Control and Feedback System Design Lab | 1 | | |
| EE 308 | Electrical Energy Conversion | 3 | | |
| EE 308 L | Electrical Energy Conversion Lab | 1 | | |
| IE 315 | Engineering Economy and Cost Analysis | 3 | | |
| Total | | 19 | | |

| Junior Year - Summer Semester | | | | |
|-------------------------------|--|----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 390 | Electrical Engineering Summer Internship | 0 | | |
| Total | | 0 | | |

| Senior Year - Fall Semester | | | | |
|-----------------------------|---|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 495 | Electrical Engineering Capstone Project I | 3 | | |
| EE 405 | Electric Power Systems | 3 | | |
| EE 413 | Digital Communications | 3 | | |
| EE 413 L | Digital Communications Lab | 1 | | |
| 4**TE | EE Elective | 3 | | |
| 4**TE | EE Elective | 3 | | |
| 4**TE L | EE Elective Lab | 1 | | |
| Total | | 17 | | |

| Senior Year - Spring Semester | | | | |
|-------------------------------|--|-----------|----------------|-----------------|
| Course Code | Course-Title | CRHs | Semester Taken | Retake/Transfer |
| EE 496 | Electrical Engineering Capstone Project II | 3 | | |
| 4**TE | EE Elective | 3 | | |
| 4**TE | EE Elective | 3 | | |
| 4**TE L | EE Elective Lab | 1 | | |
| 4**TE | EE Elective | 3 | | |
| 4**TE L | EE Elective Lab | 1 | | |
| Total | | 14 | | |

**Alfaisal University – Bachelor of Electrical Engineering
Prerequisites Chart (Effective Fall 2019)**



Note: Each EE 4** technical electives has its own prerequisite from the third year courses refer to the study plan.