



## 2016- 2017 BS Electrical Engineering Degree Plan

|      |       |        |                |
|------|-------|--------|----------------|
| Last | First | Middle | SMU Student ID |
|------|-------|--------|----------------|

Dallas Address

Phone Number

Advisor

### MAJOR

| Courses   | Hours     | Semester & Year | Grade |
|---|-----------|-----------------|-------|
| EE 1350 – Introduction to Electrical Engineering <sup>1</sup>   | 3         |                 |       |
| EE 2322 – Electronic Circuits I                                 | 3         |                 |       |
| EE 2122 – EE Laboratory: Electronic Circuits I                  | 1         |                 |       |
| EE 2350 – Circuits Analysis I                                   | 3         |                 |       |
| EE 2370 – Design & Analysis of Signals & Systems                | 3         |                 |       |
| EE 2170 – EE Laboratory: Design & Analysis of Signals & Systems | 1         |                 |       |
| EE 2381 – Digital Computer Logic                                | 3         |                 |       |
| EE 2181 – EE Laboratory: Digital Computer Logic                 | 1         |                 |       |
| EE 3311 – Solid State Devices                                   | 3         |                 |       |
| EE 3322 – Electronic Circuits II                                | 3         |                 |       |
| EE 3122 – EE Laboratory: Electronic Circuits II                 | 1         |                 |       |
| EE 3330 – Electromagnetic Field Waves                           | 3         |                 |       |
| EE 3352 – Fundamentals of Electric Power Engineering            | 3         |                 |       |
| EE 3360 – Statistical Methods in EE                             | 3         |                 |       |
| EE 3372 – Introduction to Digital Signal Processing             | 3         |                 |       |
| EE 3381 – Microprocessors                                       | 3         |                 |       |
| EE 3181 – EE Laboratory: Microprocessors                        | 1         |                 |       |
| Advanced EE Elective – Area I <sup>2</sup>                      | 3         |                 |       |
| Advanced EE Elective – Area II <sup>3</sup>                     | 3         |                 |       |
| Advanced EE Electives – Area III <sup>4</sup>                   | 3         |                 |       |
| Advanced Major Elective <sup>5</sup>                            | 3         |                 |       |
| Advanced Major Elective <sup>5</sup>                            | 3         |                 |       |
| EE 4311 – Senior Design I                                       | 3         |                 |       |
| EE 4312 – Senior Design II                                      | 3         |                 |       |
| <b>TOTAL</b>  | <b>62</b> |                 |       |

### MATHEMATICS

| Courses   | Hours     | Semester & Year | Grade |
|---|-----------|-----------------|-------|
| MATH 1337 – Calculus with Analytic Geometry I   | 3         |                 |       |
| MATH 1338 – Calculus with Analytic Geometry II  | 3         |                 |       |
| MATH 2339 – Calculus with Analytic Geometry III | 3         |                 |       |
| MATH 2343 – Elementary Differential Equations   | 3         |                 |       |
| Advanced Mathematics Elective <sup>6</sup>      | 3         |                 |       |
| <b>TOTAL</b>                                    | <b>15</b> |                 |       |

### GENERAL ENGINEERING

| Courses                                   | Hours    | Semester & Year | Grade |
|---|----------|-----------------|-------|
| CSE 1341 – Principles of Computer Science | 3        |                 |       |
| CSE 1342 – Programming Concepts           | 3        |                 |       |
| Engineering Elective <sup>7</sup>         | 3        |                 |       |
| <b>TOTAL</b>                              | <b>9</b> |                 |       |

### SCIENCE

| Courses  | Hours     | Semester & Year | Grade |
|--|-----------|-----------------|-------|
| CHEM 1303 – General Chemistry I                  | 3         |                 |       |
| PHYS 1303 – Introductory Mechanics               | 3         |                 |       |
| PHYS 1304 – Introductory Electricity & Magnetism | 3         |                 |       |
| PHYS 1105 or PHYS 1106                           | 1         |                 |       |
| Science Elective <sup>8</sup>                    | 3         |                 |       |
| <b>TOTAL</b>                                     | <b>13</b> |                 |       |

**ENGINEERING LEADERSHIP** (Select one of the following)

| Courses   | Hours | Semester & Year | Grade |
|---|-------|-----------------|-------|
| CEE 3302 – Engineering Communications                     |       |                 |       |
| EMIS 3308 – Engineering Management                        |       |                 |       |
| EMIS 3309 – Information Engineering & Global Perspectives |       |                 |       |
| CSE 4360 – Technical Entrepreneurship                     |       |                 |       |
| <b>TOTAL</b>  | 3     |                 |       |

**UNIVERSITY CURRICULUM**

|  | Course or Experience       | Hours | Semester & Year | Grade |
|--|----------------------------|-------|-----------------|-------|
| Discernment and Discourse                                |                            |       |                 |       |
| Discernment and Discourse                                |                            |       |                 |       |
| Ways of Knowing  | KNW 2300                   |       |                 |       |
| Quantitative Foundation                                  | MATH 1337                  | ####  |                 |       |
| Personal Responsibility and Wellness 1                   |                            | 1     |                 |       |
| Personal Responsibility and Wellness 2                   |                            | 1     |                 |       |
| Pure and Applied Sciences – Level 1                      | PHYS1303/1105 or 1304/1106 | ####  |                 |       |
| Pure and Applied Sciences – Level 2                      | EE 3360                    | ####  |                 |       |
| Individuals, Institutions, and Cultures – Level 1        |                            |       |                 |       |
| Individuals, Institutions, and Cultures – Level 2        |                            |       |                 |       |
| Historical Contexts – Level 1                            |                            |       |                 |       |
| Historical Contexts – Level 2                            |                            |       |                 |       |
| Creativity and Aesthetics – Level 1                      | CSE 1341                   | ####  |                 |       |
| Creativity and Aesthetics – Level 2                      |                            |       |                 |       |
| Philosophical and Religious Inquiry and Ethics – Level 1 | EE 2381                    | ####  |                 |       |
| Philosophical and Religious Inquiry and Ethics – Level 2 | EE 3381                    | ####  |                 |       |
| Writing 1  | EE 3311                    | ####  |                 |       |
| Writing 2  |                            |       |                 |       |
| Quantitative Reasoning                                   | MATH 2343                  | ####  |                 |       |
| Information Literacy 1                                   |                            |       |                 |       |
| Information Literacy 2                                   |                            |       |                 |       |
| Oral Communication 1                                     | KNW 2300                   | ####  |                 |       |
| Oral Communication 2                                     | EE 3311                    | ####  |                 |       |
| Community Engagement                                     |                            |       |                 |       |
| Human Diversity  |                            |       |                 |       |
| Global Engagement  |                            |       |                 |       |
| Foreign Language 1                                       |                            |       |                 |       |
| Foreign Language 2                                       |                            |       |                 |       |
| <b>TOTAL</b>   |                            |       |                 |       |

Total TCH: \_\_\_\_\_ (Minimum 125)

**GRADUATION CERTIFICATION:**

|                |      |
|----------------|------|
| Advisor        | Date |
| Dept. Chair    | Date |
| Assistant Dean | Date |

<sup>1</sup>Courses that are listed multiple times in the Degree Plan in different sections may satisfy multiple requirements, but their hours apply only once to the total TCH of the major.<sup>2</sup>To be chosen from EE 5352, EE 5360, EE 5362/ME 5362, EE 5370, EE 5371, EE 5372, EE 5373, EE 5374, EE 5375, EE 5376, EE 5377, EE 5378 or EE 5379<sup>3</sup>To be chosen from EE 5356, EE 5357, EE5387, EE 5381, EE 5385 or CSE 5385<sup>4</sup>To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330, EE 5332 or EE 5333<sup>5</sup>To be chosen from any of the Advanced EE Elective Areas I, II, III<sup>6</sup>To be chosen from MATH 3308, MATH 3315 / CSE 3365, MATH 3337 or MATH 3353<sup>7</sup>To be chosen from ME 2310, ME 2320, ME 2331, ME 2342, CSE 2341, CSE 2353 or any 5000 level EE course approved by the student's advisor<sup>8</sup>To be chosen from CHEM 1304, PHYS 3305, PHYS 3344, or PHYS 3374