



2016-2017 BS in Electrical Engineering and Mathematics Dual 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 ¹ | 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 ² | 3 | | |
| Advanced EE Elective - Area II ³ | 3 | | |
| Advanced EE Electives – Area III ⁴ | 3 | | |
| Advanced Major Elective ⁵ | 3 | | |
| Advanced Major Elective ⁵ | 3 | | |
| EE 4311 – Senior Design I | 3 | | |
| EE 4312 – Senior Design II | 3 | | |
| TOTAL | 62 | | |

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 | | |
| MATH 3315 – Introduction to Scientific Computing | 3 | | |
| MATH 3337 – Advanced Mathematics for Science and Engineering | 3 | | |
| MATH 3353 – Introduction to Linear Algebra | 3 | | |
| MATH 5315, 5325, 5331, 5332 or 5334 | 3 | | |
| TOTAL | 24 | | |

GENERAL ENGINEERING

| Courses | Hours | Semester & Year | Grade |
|-------------------------------------------|----------|-----------------|-------|
| CSE 1341 – Principles of Computer Science | 3 | | |
| CSE 1342 – Programming Concepts | 3 | | |
| TOTAL | 6 | | |

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 | | |
| TOTAL | 10 | | |

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 | | | | |
| TOTAL | | | | |

Total TCH: _____ (Minimum 125)

GRADUATION CERTIFICATION:

Advisor Date

Dept. Chair Date

Assistant Dean Date

¹Courses 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.

²To 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

³To be chosen from EE 5356, EE 5357, EE 5387, EE 5381 or EE 5385

⁴To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330, EE 5332 or EE 5333

⁵To be chosen from any Advanced EE Elective Areas I, II, III