**B.S. in ELECTRICAL ENGINEERING (2018-2019 Catalog)**

**Advisor:\_\_\_\_\_\_\_\_\_**

**\_\_Fast Track \_\_Minor\_\_\_\_\_\_\_\_\_**

**\_\_Dbl Major/Degree**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Other:**

### Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ UTD ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# MAJOR PREPARATORY REQUIREMENTS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **LD** | **UD** | **NTS** | **COURSE TITLE** | **COURSE #** | **GRADE** | **SEM** | **INFO** |
| 1 |  | 1,7 | Introduction to Engineering and CS | ECS 1100 |  |  |  |
| 1 |  | 1 | Introduction to Electrical Engineering I | EE 1100 |  |  |  |
| 2 |  | 1 | Introduction to Electrical Engineering II | EE 1202 |  |  |  |
| 3 |  | 1,4 | Introduction to Programming | CS 1325 |  |  |  |
| 3 |  | 1 | Introduction to Digital Systems | EE 2310 |  |  |  |
| 3 |  | 1 | Linear Algebra for Engineers | ENGR 2300 |  |  |  |
| 4 |  | 1,2,3 | Calculus I | MATH 2414 or 2417 |  |  |  |
| 4 |  | 1,2,3 | Calculus II | MATH 2415 or 2419 |  |  |  |
| 4 |  | 1 | Differential Equations w/ Applications | MATH 2420 |  |  |  |
| 3 |  | 1,2 | Mechanics | PHYS 2325 |  |  |  |
| 1 |  | 1,2 | Physics Laboratory I | PHYS 2125 |  |  |  |
| 3 |  | 1,2 | Electromagnetism and Waves | PHYS 2326 |  |  |  |
| 1 |  | 1 | Physics Laboratory II | PHYS 2126 |  |  |  |
| 3 |  | 1 | General Chemistry I | CHEM 1311 |  |  |  |
| 1 |  | 1 | General Chemistry Lab I | CHEM 1111 |  |  |  |
| 37 |  |

MAJOR CORE REQUIREMENTS\* (*\*Courses in this block used to calculate major GPA)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 3 | 1 | Advanced Engineering Math | ENGR 3300\* |  |  |  |
|  | 3 | 1 | Electrical Network Analysis | EE 3301\* |  |  |  |
|  | 1 | 1 | Electrical Network Analysis Lab | EE 3101\* |  |  |  |
|  | 3 | 1 | Signals and Systems | EE 3302\* |  |  |  |
|  | 1 | 1 | Signals and Systems Lab | EE 3102\* |  |  |  |
|  | 3 | 1 | Electronic Devices | EE 3310\* |  |  |  |
|  | 1 | 1 | Electronic Devices Lab | EE 3110\* |  |  |  |
|  | 3 | 1 | Electronic Circuits | EE 3311\* |  |  |  |
|  | 1 | 1 | Electronic Circuits Lab | EE 3111\* |  |  |  |
|  | 3 | 1 | Digital Circuits | EE 3320\* |  |  |  |
|  | 1 | 1 | Digital Circuits Lab | EE 3120\* |  |  |  |
|  | 3 | 1 | Probability Theory & Statistics | ENGR 3341\* |  |  |  |
|  | 3 | 1 | Communications Systems | EE 3350\* |  |  |  |
|  | 1 | 1 | Communications Systems Lab | EE 3150\* |  |  |  |
|  | 3 | 1 | Electromagnetic Engineering I | EE 4301\* |  |  |  |
|  | 3 | 1 | Systems and Controls | EE 4310\* |  |  |  |
|  | 3 | 1 | RF Circuit Design Principles | EE 4368\* |  |  |  |
|  | 3 | 1 | Senior Design Project I | EE 4388\* |  |  |  |
|  | 3 | 1 | Senior Design Project II | EE 4389\* |  |  |  |
|  | 3 | 1 | EE Guided Elective | EE 43XX\* |  |  |  |
|  | 3 | 1 | EE Guided Elective | EE 43XX\* |  |  |  |
|  | 3 | 1 | EE Guided Elective | EE 43XX\* |  |  |  |
|  | 3 | 1,2 | Social Issues & Ethics in CS & E | ECS 3361\* |  |  |  |
|  | 3 | 1,2 | Professional & Tech Communication | ECS 3390\* |  |  |  |
|  | 60 |

REMAINING CORE CURRICULUM

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3 |  | 1 | Rhetoric | RHET 1302 |  |  |  |
| 3 |  |  | American National Government | GOVT 2305 |  |  |  |
| 3 |  |  | State and Local Government | GOVT 2306 |  |  |  |
| 3 |  | 4 | US History Survey to Civil War (Core: 060) | HIST 1301 |  |  |  |
| 3 |  | 4 | US History Survey from Civil War (Core: 060) | HIST 1302 |  |  |  |
| 3 |  | 4 | Exploration of the Humanities (Core: 040) | HUMA 1301 |  |  |  |
| 3 |  | 4 | Exploration of the Arts (Core: 050) | ARTS 1301 |  |  |  |
| 21 |  |

ELECTIVES (10 Hours - Requires Approval from Advisor)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 1 |  | 5,6 | Free Elective |  |  |  |  |
| 0 |  | 7 | Freshmen Seminar | UNIV 1010 |  |  |  |
| 0 |  | 8 | Core Curriculum Assessment | UNIV 2020 |  |  |  |
| 10 |  |
| 68 | 60 | ***Total Hours\_\_\_\_\_\_\_\_\_*** | ***128 hours required for graduation. Must include minimum 51 hours as Upper Division.\*\*\**** |

## NOTES

|  |  |
| --- | --- |
| 1. Major requirement. Must earn C- or better to receive credit. | 2. Course meets both Major and CORE requirement. |
| 3. Must take Math 2413/2414/2415 ***or*** Math 2417/2419. | 4. Other course options available. See advisor for details. |
| 5. A maximum of 3 PHIN credits is allowed on any UTD degree plan. | 6. Lower or upper division courses may count as free electives. |
| 7. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course. |
| 8. All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.  |
| \*\*\* Must have a minimum cumulative 2.0 GPA in all UTD coursework and a cumulative 2.0 GPA in all Major requirements to graduate. Students must also complete 45 hours in residence and complete 24 of the last 30 hours at UTD. No off-campus courses in the last semester allowed. |