**B.S. in COMPUTER SCIENCE (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 |  | 7 | Introduction to Engineering and CS | ECS 1100 |  |  |  |
| 2 |  |  | Introduction to CS and SE | CS 1200 |  |  |  |
| 3 |  | 1 | Computer Science I | CS 1337 |  |  |  |
| 3 |  | 1 | Discrete Mathematics for Computing I | CS 2305 |  |  |  |
| 3 |  | 1 | Computer Science II | CS 2336 |  |  |  |
| 4 |  | 2,3 | Calculus I | MATH 2413 or 2417 |  |  |  |
| 4 |  | 2,3 | Calculus II | MATH 2414 or 2419 |  |  |  |
| 4 |  |  | Linear Algebra | MATH 2418 |  |  |  |
| 3 |  | 2 | Mechanics | PHYS 2325 |  |  |  |
| 1 |  | 2 | Physics Laboratory I | PHYS 2125 |  |  |  |
| 3 |  | 2 | Electromagnetism and Waves | PHYS 2326 |  |  |  |
| 1 |  |  | Physics Laboratory II | PHYS 2126 |  |  |  |
| 3 |  | 4 | Science Elective |  |  |  |  |
| 35 |  |

MAJOR CORE REQUIREMENTS\*

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 |  | Professional Responsibility in CS/SE | CS 3162\* |  |  |  |
|  | 3 | 1 | Discrete Math for Computing II | CS 3305\* |  |  |  |
|  | 3 |  | Computer Architecture | CS 3340\* |  |  |  |
|  | 3 |  | Probability & Statistics in CS/SE | CS 3341\* |  |  |  |
|  | 3 |  | Data Structures & Introduction to Algorithmic Analysis | CS 3345\* |  |  |  |
|  | 3 |  | Software Engineering | CS 3354\* |  |  |  |
|  | 3 |  | C/C++ Programming in a UNIX Envirn | CS 3377\* |  |  |  |
|  | 3 |  | Organization of Programming Lang | CS 4337\* |  |  |  |
|  | 3 |  | Digital Logic and Computer Design | CS 4341\* |  |  |  |
|  | 1 |  | Digital Systems Laboratory | CS 4141\* |  |  |  |
|  | 3 |  | Database Systems | CS 4347\* |  |  |  |
|  | 3 |  | Operating Systems Concepts | CS 4348\* |  |  |  |
|  | 3 |  | Adv Algorithm Design & Analysis | CS 4349\* |  |  |  |
|  | 3 |  | Automata Theory | CS 4384\* |  |  |  |
|  | 4 |  | Computer Science Project | CS 4485\* |  |  |  |
|  | 3 |  | CS Guided Elective | CS 43XX\* |  |  |  |
|  | 3 |  | CS Guided Elective | CS 43XX\* |  |  |  |
|  | 3 |  | CS Guided Elective | CS 43XX\* |  |  |  |
|  | 3 | 2 | Social Issues and Ethics in CS & E  | ECS 3361\* |  |  |  |
|  | 3 | 2 | Professional & Technical Comm | ECS 3390\* |  |  |  |
|  | 57 |

REMAINING CORE CURRICULUM

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3 |  |  | 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 (11 Hours - Requires Approval from Advisor)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 3 |  | 5,6 | Free Elective |  |  |  |  |
| 2 |  | 5,6 | Free Elective |  |  |  |  |
| 0 |  | 7 | Freshmen Seminar | UNIV 1010 |  |  |  |
| 0 |  | 8 | Core Curriculum Assessment | UNIV 2020 |  |  |  |
| 11 |  |  |
| 67 | 57 |  | ***Total Hours\_\_\_\_\_\_ 124 hours required for graduation. Must include 51 hours as Upper Division.\*\*\**** |

## NOTES

|  |  |
| --- | --- |
| 1. Major Requirement: Must earn a C or better to receive credit. | 2. Course meets both Major and CORE requirement. |
| 3. Must take Math 2413/2414 ***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. |