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

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

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

**\_\_Dbl Major/Degree**

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

**Other:**

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

# MAJOR PREPARATORY REQUIREMENTS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| LD | UD | NOTES | COURSE TITLE | COURSE # | GRADE | SEM | INFO |
| 1 |  | 8 | Intro to Engineering and CS | ECS 1100 |  |  |  |
| 2 |  |  | Intro 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 |  |  | Science Elective |  |  |  |  |
| 35 |  |

MAJOR CORE REQUIREMENTS\*

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 |  | Professional Responsibility in CS/SE | SE 3162\* |  |  |  |
|  | 3 |  | Mathematics Foundations of SE | SE 3306\* |  |  |  |
|  | 3 |  | Computer Architecture | SE 3340\* |  |  |  |
|  | 3 |  | Probability & Statistics in CS/SE | SE 3341\* |  |  |  |
|  | 3 |  | Data Structures & Int. to Algorithms | SE 3345\* |  |  |  |
|  | 3 |  | Software Engineering | SE 3354\* |  |  |  |
|  | 3 |  | C/C++ Programming in a UNIX Envir | SE 3377\* |  |  |  |
|  | 3 |  | Database Systems | SE 4347\* |  |  |  |
|  | 3 |  | Operating Systems Concepts | SE 4348\* |  |  |  |
|  | 3 |  | Requirements Engineering | SE 4351\* |  |  |  |
|  | 3 |  | Software Architecture & Design | SE 4352\* |  |  |  |
|  | 3 |  | Software Testing, Verif, Valid, QA | SE 4367\* |  |  |  |
|  | 3 |  | Software Project Planning & Mgmt. | SE 4381\* |  |  |  |
|  | 4 |  | Software Engineering Project | SE 4485\* |  |  |  |
|  | 3 | 5 | SE Guided Elective | SE/CS 43XX\* |  |  |  |
|  | 3 | 5 | SE Guided Elective | SE/CS 43XX\* |  |  |  |
|  | 3 | 5 | SE Guided Elective | SE/CS 43XX\* |  |  |  |
|  | 3 | 5 | SE Guided Elective | SE/CS 43XX\* |  |  |  |
|  | 3 | 2 | Social Issues & Ethics in CS & E | ECS 3361\* |  |  |  |
|  | 3 | 2 | Prof & Tech Communication | ECS 3390\* |  |  |  |
|  | 59 |

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 (8 Hours - Requires Approval from Advisor)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 |  | 6,7 | Free Elective |  |  |  |  | |
| 3 |  | 6,7 | Free Elective |  |  |  |  | |
| 2 |  | 6,7 | Free Elective |  |  |  |  | |
| 0 |  | 8 | Freshman Seminar | UNIV 1010 |  |  |  | |
| 0 |  | 9 | Core Curriculum Assessment | UNIV 2020 |  |  |  | |
| 8 |  |
| 64 | 59 | ***Total Hours\_\_\_\_\_\_\_ 123 hours required for graduation. Must include minimum 51 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. Must satisfy at least one Application Domain. See Advisor for details. | 6. A maximum of 3 PHIN credits is allowed on any UTD degree plan. |
| 7. Lower or upper division courses may count as free electives. | 8. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course. |
| 9. 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. | |