ADVISING INFORMATION FORM
B.S. COMPUTER SCIENCE DEGREE REQUIREMENTS (120 hours)

(Effective Fall 2022)
(Revised 07/06/2022)

Please refer to your Degree Plan for official requirements. **Complete this form prior to seeing your advisor.**

- Fill in the grade received next to courses you have taken.
- Place a T next to courses you are currently taking.
- A grade of C or better is required for all prerequisite courses.
- At least 42 hours (36 advanced) must be taken at SFA.
- A Degree Plan must be filed in the Advising Center, Miller Science room 127 after completing 30 hours. cosmadvising@sfasu.edu
- Apply for Graduation eight months before planned graduation date. graduation@sfasu.edu https://www.sfasu.edu/registrar/630.asp

Name:	**Student ID:**	**Semester:**

1. Core Curriculum Req. (42 hrs + 3 hrs FnKn (2)) **45 hours**

A. Communication I. Component Area Option **___/12 hours**

Preparatory course: ___INRW 0399 (0 credit hour course)

1. 6 hrs from: (must have a C or better in each)
___ENGL 1301 or 1303 ___ENGL 1302 (I)
2. 3 hrs from: ___SPCH 1315 (recommended), 1318, or 2333
3. 3 hrs (I): ___ENGL 2311(recommended); BUSI 2304; FREN 1311, 1312; GERM 1311, 1312; INCM 1301-1305; PORT 1311, 1312; SGNL 1301, 1302; SPAN 1311, 1312

B. Mathematics (3 hrs Core) **___/4 hours**

Preparatory courses (0 credit hour courses):
___MATH 0398 ___MATH 0199

Prerequisite courses (not degree requirements)**:**
for MATH 2313: ___MATH 1318 or (2211 & 2212 (4 hrs)) or 2412 (4 hrs)
for MATH 1318: ___MATH 1314 ___MATH 1316

Required courses:
___MATH 2313 (Core Req.) & 2113 (FnKn) (4 hrs)

C. Life & Physical Sciences (6 hrs Core + 2 hrs FnKn (2)) **___/8 Hours**

2 courses from (FnKn (2) - 2 hrs labs)**:**
___ASTR 1303 ___CHEM 1311 ___PHYS 1301 (or ___2325)
___BIOL 1307 ___CHEM 1312 ___PHYS 1302 (or ___2326)
___BIOL 2301 ___GEOL 1303 ___PHYS 1310
___GEOL 1304

You must register for the corresponding lab in the same semester that you take the lecture courses that you choose from above. The lab should be numbered the same as the course except that the second digit should be a 1 for one hour as opposed to 3 for three hours. E.G. If you register for BIOL 1307 (lecture), then you must register for BIOL 1107 (lab) in the same semester. Check degree plan for 4 hr lab sci. substitutes.

D. Language, Philosophy & Culture **___/3 hours**

3 hrs from: *check degree plan for ENGL lit. substitutes*

___ENGL LIT ___HIST 2311 ___HIST 2321 ___PHIL 1301
___HIST 2312 ___HIST 2322 ___PHIL 1304
___PHIL 2306

E. Creative Arts **___/3 hours**

3 hrs from:
___ARTS 1301 ___ARTS 1303 ___ARTS 1304 ___DANC 2303 ___DRAM 1310 ___DRAM 2366 ___MUMH 1307 ___MUSI 1306

F. Am. History ____/6 hours **G. Govt. / Poli. Sci.** **___/6 hours**

___HIST 1301 ___HIST 1302 ___GOVT 2305 ___GOVT 2306

H. Social & Behavioral Science - 3 hrs from: **___/3 hours**

___ANTH 2351 ___*ECON 2302 ___GEOG 1303 ___PSYC 2301
___*ECON 2301 ___FORS 2351 ___MCOM 1307 ___SOCI 1301

(* recommended) *Check degree plan for substitutes*

2. Foundation of Knowledge Requirements (FnKn) **___/8-11 hours**

MATH 2113 & 2 hrs science labs included in Items 1. B. & C.

___ CSCI 1462 (recommended) or MATH 1342

___ MATH 2314 & 2114 ___1-3 hrs. adv. MATH

3. CSCI Major Requirements **___/49 hours**

___CSCI 1302 ___CSCI 3321 ___CSCI 4335
___CSCI 2302 ___CSCI 3323 ___CSCI 4341
___CSCI 2311 ___CSCI 3333 ___CSCI 4342
___CSCI 2314 ___CSCI 3341 ___CSCI 4260 (2 hrs)
___CSCI 3302 ___CSCI 3342 ___CSCI 4270 (2 hrs)

___6 hrs adv CSCI course not already chosen above

Electives (**___/15-18 hours +** as needed to complete degree requirements**)**

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A computer science major should complete the following courses before enrolling in any upper-level computer science course:

CSCI 1302, 2302, 2311 (9 hrs), MATH 2313 (4 hrs)
CSCI 2314 or 3302 (3 hrs), Science (8 hrs), Fresh. ENGL (6 hrs)

B.S. CSCI (current) Course Titles (Prerequisites Shown in Parenthesis)

A grade of C or better is required for all prerequisite and freshman English courses

ANTH 2351 Cultural Anthropology
ARTS 1301 Art Appreciation
ARTS 1303 Art History I [Prehistoric to the 14th century]
ARTS 1304 Art History II [14th Century to the present]
ASTR 1303 Classical & Modern Astronomy
BIOL 1306 Biology for Science Majors I (TSI Complete %)
BIOL 1307 Biology for Science Majors II (TSI Complete %)
BIOL 1313 General Zoology
BIOL 2301 Human Anatomy & Physiology I (TSI Complete %)
CHEM 1311 General Chemistry I (MATH 1314, 1324, ACT 25, SAT 580, or co-req MATH 2211)
CHEM 1312 General Chemistry II (CHEM 1311, MATH 1314)

CSCI - Computer Science Courses

CSCI 1302 Computer Science Principles (Advanced math score #)
CSCI 1462 Introduction to Data Analytics (Advanced math score #)
CSCI 2302 Computer Programming Principles (CSCI 1302)
CSCI 2311 Event-Driven Programming (CSCI 1302)
CSCI 2314 Computer Organization and Architecture (CSCI 2302)
CSCI 3101 A Contemporary Programming Language [1-3 hrs] (varies with topic)
CSCI 3185 Internship in Computing [1-3 hrs] (Advanced Standing; CSCI 3323 + 3 adv. hrs. CSCI; SFA & CS & Upper-Level CS GPAs 2.5; course supervisor consent)
CSCI 3302 Data Structures (CSCI 2302, CSCI 2311 recommended)
CSCI 3321 Client Server Web Programming (CSCI 2302 or CSIT 3351; CSCI 2311)
CSCI 3323 Software Engineering (CSCI 3302)
CSCI 3331 Object-Oriented Programming Methods (CSCI 2302, CSCI 2311)
CSCI 3333 Discrete Structures (CSCI 1302; MATH 1314 or 1324 or 2211 or 2313)
CSCI 3341 Principles of Operating Systems (CSCI 2314, CSCI 3302)
CSCI 3342 Algorithm Analysis (CSCI 3302, CSCI 3333)
CSCI 3362 Data Analytics I (CSCI 1462, CSCI 2302; MATH 3325)
CSCI 4101 Contemporary Topics in Computer Science [1-3 hrs] (varies with topic)
CSCI 4111 Ethics in Computer Science (18 hrs [6 adv] CSC; Chair approval)
CSCI 4260 Senior Design I (CSCI 3323; CSCI 3321 or 3331; Chair approval)
CSCI 4270 Senior Design II (CSCI 4260)
CSCI 4321 Applied Operations Research (CSCI 3302; MATH 1325 or 2313; CSCI 1462 or MATH 1342)
CSCI 4325 Database Management Systems (CSCI 3302)
CSCI 4326 Requirements Engineering and System Modeling (CSCI 3323)
CSCI 4331 System Simulation and Model Building (CSCI 3302; MATH 1325 or 2313; CSCI 1462 or MATH 1342)
CSCI 4335 Computer Networking (CSCI 3302)
CSCI 4341 Formal Languages (CSCI 3302; CSCI 3333)
CSCI 4342 Organization of Programming Languages (CSCI 3302; CSCI 3321 or 3331)
CSCI 4345 Computer Graphics (CSCI 3323 or 3341 or 3342; MATH 1316)
CSCI 4347 Cyber Security Concepts and Practices (CSCI 3302)
CSCI 4362 Data Analytics II (CSCI 3302, CSCI 3362; STAT 3342 or MATH 3340)
CSCI 4365 Capstone Project in Data Analytics (CSCI 3342, CSCI 4362; Chair approval)
CSCI 4175 Special Problems [1-3 hrs] (junior standing; Chair approval)

DANC 2303 Dance Appreciation
DRAM 1310 Theatre Appreciation
DRAM 2366 Film and Culture
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
ENGL 1301 Rhetoric & Composition (THEA English pass or INRW 0399)
ENGL 1302 Research & Argument (ENGL 1301)
ENGL 2309 LIT: Introduction to Mythology (6 hrs freshman ENGL)
ENGL 2311 Technical and Scientific Writing (6 hrs freshman ENGL)
ENGL 2322 LIT: British Literature to 1800 (6 hrs freshman ENGL)
ENGL 2323 LIT: British Literature from 1800 (6 hrs freshman ENGL)
ENGL 2327 LIT: American Literature to 1865 (6 hrs freshman ENGL)
ENGL 2328 LIT: American Literature from 1865 (6 hrs freshman ENGL)
ENGL 2332 LIT: World Literature to 1650 (6 hrs freshman ENGL)
ENGL 2333 LIT: World Literature from 1650 (6 hrs freshman ENGL)
ENGL 2335 LIT: Literary Genres
ENGL 2341 LIT: Introduction to Literature (6 hrs freshman ENGL)
GEOG 1303 World Regional Geography
GEOL 1303 Introductory Geology
GEOL 1304 Historical Geology (GEOL 1303)
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I [1000-1877]
HIST 1302 United States History II [1877-present]
HIST 2311 Western Civilization I [prehistory to 1500]
HIST 2312 Western Civilization II [since 1500]
HIST 2321 World Civilizations I [prehistory to 1500]
HIST 2322 World Civilizations II [since 1500]
INRW 0399 Integrated Reading and Writing
MATH 0398 Introductory Algebra
MATH 0199 Intermediate Algebra
MATH 1314 College Algebra (Advanced math score #)
MATH 1316 Plane Trigonometry (Advanced math score #)
MATH 1318 Plane Analytic Geometry (MATH 1314, MATH 1316)
MATH 1342 Introduction to Probability & Statistics (Advanced math score #)
MATH 2211 Pre-calculus A (2 hrs; prereq: math ACT 21 or SAT 500)
MATH 2212 Pre-calculus B (2 hrs; prereq: math ACT 25 or SAT 600)
MATH 2313 Calculus I (MATH 1318 or 2211 & 2212 or 2412)
MATH 2314 Calculus II (MATH 2313)
MATH 2412 Pre-calculus
MATH 3325 Computational Linear Algebra (MATH 2313, 2113; CSCI 1302)
MATH 3340 Probability Modeling (MATH 2314)
MUMH 1307 Intro to Music Literature
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy
PHIL 2306 Introduction to Ethics
PHYS 1310 Fundamentals of Electronics
PHYS 1301 Mechanics & Heat (MATH 1314, MATH 1316; or chair consent)
PHYS 1302 Electricity, Sound and Light (PHYS 1301)
PHYS 2325 Technical Physics I (MATH 2313 pre- or co-req)
PHYS 2326 Technical Physics II (MATH 2313, PHYS 2325)
PSYC 2301 General Psychology
SOCI 1301 Introduction to Sociology
SPCH 1315 Public Speaking
SPCH 1318 Interpersonal Communication
SPCH 2333 Teamwork and Group Communication
STAT 3342 Statistical Methods (MATH 1342)

% TSI Complete

Students must be TSI complete or exempt or have completed all required developmental courses with C's or better. http://www.sfasu.edu/studentsuccess/264.asp

 # Advanced math score:

Required: 2 years High School Algebra; 1 year High School Geometry; TSI complete or exempt
Strong recommendation: ACT 21, SAT 530 or a C or better in MATH 0199

Advising: http://www.sfasu.edu/academics/colleges/sciences-math/computer-science/student-resources/advising

Syllabi: http://www.sfasu.edu/academics/colleges/sciences-math/computer-science/about/faculty-resources

Course Rotation: http://www.sfasu.edu/academics/colleges/sciences-math/computer-science/student-resources/advising/course-rotation