AS Computer Science & Information Technology
To BS Computer Science - **Guided Pathway**

TEXAS ★ STATE
UNIVERSITY ®

First Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
c ENGL 1301 Composition I	c ENGL 2311 Technical and Business Writing
c MATH 2413 Calculus I (minor)	c MATH 2414 Calculus II (minor)
c Creative Arts (050) (see list below)	COSC 1437 Programming Fundamentals II
COSC 1436 Programming Fundamentals I	GOVT 2305 Federal Government
c PHIL 2306 Intro to Ethics	
17 credit hours	14 credit hours

Second Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
MATH 2305 Discrete Mathematics	MATH 2415 Calculus III (minor)
c Life/Physical Science (see list below)	COSC 2325 Computer Organization
c GOVT 230 Texas Government	c Life/Physical Science (see list below)
COSC 2436 Programming Fundamentals III	c HIST 1302 US History II
	CS 3358 Data Structures
14 credit hours	17 credit hours

Third Year - Texas State University/Collin College

Texas State University courses to be taught at Collin College Allen Technical Campus

FIRST SEMESTER	SECOND SEMESTER
MATH 3398 Discrete Math II (minor)	CS 3339 Computer Architecture
CS 3320 Internet Software Development	CS 3360 Computer Systems Fundamentals
CS 2315 Computer Ethics	CS Advanced Elective (CS 4310/4315)
c Social/Behavioral Sciences (see list below)	CS 3354 Introduction to Object-based Design
Elective (can be anything to reach 120 hours total)	
15 credit hours	12 credit hours

Fourth Year – Texas State University/Collin College

FIRST SEMESTER	SECOND SEMESTER
MATH 3305 Probability and Statistics (minor)	CS 4371 Computer Systems Security
CS 3378 Theory of Automata (minor)	CS Advanced Elective (CS 4310/4315)
CS 3398 Software Engineering	CS 4326 Human Factors of Computer Systems
c Life/Physical Science (see list below)	c SPCH 1311 Intro to Speech Communication
Elective (can be anything to reach 120 hours total)	c Social/Behavioral Sciences (see list below)
16 credit hours	15 credit hours

AS Computer Science & Information Technology
Bachelor of Science in Computer Science

Collin Options:

Creative Arts – choose one from: **DANC** 2303, MUSI 1306, 1307, 1310, **DRAM** 1310, 2361, 2362, 2366, **ARTS** 1301, 1303, 1304, 1313

Social/Behavioral Sciences – choose one from: **ANTH** 2302, 2346, 2351, **ECON** 2301, 2302, **PSYC** 2301, **SOCI** 1301, 1306

Life/Physical Sciences – choose TWO from one area and ONE from another (THREE total): **CHEM** 1411, 1412, **PHYS** 1401, 1402, 2425, 2426, **GEOL** 1403, 1404