AS - Computer Science - Field of Study

Certificate – Computer Science Field of Study
30 credit hours

REQUIRED GENERAL EDUCATION CORE COURSES **12 credit hours**

MATH 2413 Calculus I[1]
PHYS 2425 University Physics I[1]
PHYS 2426 University Physics II[1]

OTHER REQUIRED COURSES **18 credit hours**

COSC 1436 Programming Fundamentals I (C++) [2]
COSC 2325 Computer Organization [3]
MATH 2414 Calculus II [1]

(Select from one of the following tracks.)

C++ Track Content Courses

COSC 1437 Programming Fundamentals II (C++) [2]
COSC 2336 Programming Fundamentals III (C++) [2]

Java Track Content Courses

COSC 1337 Programming Fundamentals II (Java) [2]
COSC 2436 Programming Fundamentals III (Java) [2]

ADDITIONAL GENERAL EDUCATION CORE REQUIREMENTS **30 ~~31~~ credit hours**

Communication **6 credit hours**

Complete both of the following courses:

ENGL 1301 and 1302

Language, Philosophy & Culture **3 credit hours**

Select one of the following courses:

English	ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343
French	FREN 2303 or 2304
History	HIST 2311, 2312, 2321, 2322
Humanities	HUMA 1301
Philosophy	PHIL 1301, 1304, 2303, 2306, 2307, 2321

Social and Behavioral Sciences **3 credit hours**

Select one of the following courses:

Anthropology	ANTH 2302, 2346, 2351
Economics	ECON 2301, 2302
Psychology	PSYC 2301
Sociology	SOCI 1301

Government / Political Science **6 credit hours**

Complete both of the following courses:

GOVT 2305 and 2306

American History **6 credit hours**

Select two of the following courses:

HIST 1301, 1302, 2301

Creative Arts **3 credit hours**

Select one of the following:

Dance	DANC 2303
Music	MUSI 1306, 1307, 1310
Theatre	DRAM 1310, 2361, 2362, 2366, 2367
Visual Arts	ARTS 1301, 1303, 1304, 1313

Component Area Option (CAO) **3 4 credit hours**

Speech **3 credit hours**

Select one of the following courses:

SPCH 1311, 1315, 1321

~~**Additional CAO Requirement 1 credit hour**~~

~~*Select one of the following courses:*~~

~~PSYC 1100, 1300~~

1. It is recommended that students complete the math sequence, physics sequence, and computer science sequence at the same institution to reduce the likelihood of potential gaps in the curriculum.

2.COSC 1436 and COSC 1337/1437 are preparatory and sequential in nature; however, not all courses are required for the Computer Science major at all universities but may apply to general degree requirements.

a) COSC 1436 is not part of the Computer Science major requirements at The University of Texas at Austin, the University of Texas at Arlington, The University of Texas at Dallas, and Texas A&M University.

b) COSC 1337 and COSC 1437 are not part of the Computer Science major requirements at the University of Texas at Austin. Preparatory courses such as COSC 1436 and COSC 1337/1437 will assist students who need additional background but do not apply toward the computer science major requirements.

3. COSC 2325/2425 is not part of the Computer Science major requirements at the University of Texas at Austin, University of Texas at Dallas, or Texas A&M University but may be applied to general degree requirements.