



COMPUTER SCIENCE (ASSOCIATE IN ARTS) (SB1440) (01185)

This sample course map does not represent a contract or guarantee of course availability or transfer guarantee, [nor does it replace meeting with a Counselor to discuss your goals and create a custom Student Education Plan](#) designed to fit your unique individual needs.

This plan includes GE recommendations satisfying: [Intersegmental General Education Transfer Curriculum \(IGETC\)](#). [Please see the IGETC for additional GE options.](#)

This plan assumes the student is placed into transfer level Math and English [Southwestern College Graduation, Certificates, and Degree Requirements](#)

1ST SEMESTER			
Course	Course Title	Units	Requirement Area
MATH 130	Introduction to Computer Programming	3	M
MATH 250	Analytic Geometry and Calculus I	5	M, GE 2
ENGL 115	College Composition: Reading and Writing Analytically	4	GE 1A
GE 4	Any GE 4 Course	3	GE 4
TOTAL UNITS		15	

2ND SEMESTER			
Course	Course Title	Units	Requirement Area
MATH 140	Data Structures and Algorithms	3	M
MATH 251	Analytic Geometry and Calculus II	4	M, GE A2
ENGL 116 OR PHIL 103	Critical Thinking and Argument OR Logic and Critical Thinking	3-4	GE 1B
ANY GE 1C	Any GE 1C Course	3	GE 1C
ANY GE 4	Any GE 4 Course	3	GE 4
TOTAL UNITS		16-17	

3RD SEMESTER			
Course	Course Title	Units	Requirement Area
MATH 265	Discrete Structures	3	M
PHYS 270	Principles of Physics I	3	M, GE 5A
PHYS 271	Principles of Physics I Laboratory	1	M, GE 5C
GE 4A	Any GE 4A Course	3	GE A4
GE 3A	Any GE 3A Course	3	GE 3A

GE 3B	Any GE 3B Course	3	GE 3B
TOTAL UNITS		16	

4TH SEMESTER			
Course	Course Title	Units	Requirement Area
MATH 230	Computer Organization and Architecture	3	M
PHYS 272	Principles of Physics II	3	M, GE 5A-A
PHYS 273	Principles of Physics II Laboratory	1	M, GE 5A-C
GE 3A OR 3B	Any GE 3A or 3B course	3	GE 3A OR 3B
GE 5B	Any GE 5B course	3	GE 5B
AREA 6 (IF NEEDED)	AREA 6 (If needed)	5	AREA 6 (If needed)
TOTAL UNITS		13-18	

Requirement Codes:

M: Major Requirement

GE: General Education Requirement

GE Content Areas: 1A, 1B, 1C, AREA 2, 3B, 3A, 3B OR 3A, AREA 4, 5A, 5B, 5C, AREA 6, US-1, US-2, and US-3

E: Elective

This map is based off of the 19/20 Catalog year and is subject to change each year.