

COMPUTER SCIENCE B.S. and A.S. DEGREE PROGRAMS

SUGGESTED CURRICULUM SEQUENCE

FIRST YEAR:

First Semester

Second Semester

CS	151	Introduction to Computing	3
MTH	202	Calculus I	4
ENGL	101	Freshman English	3
or			
ENGL	112	College Composition I	3
SPCH	102	Fundamentals of Speech	3
FS	101	Freshman Seminar I	1
Subtotal			14

CS	241	Discrete Structures	3
CS	244	Object-Oriented Programming and Design	3
MTH	203	Calculus II	4
ENGL	150	College Composition II	3
Social Science / Philosophy CORE Course.			
Select one: (PHIL 101, PSYC 101, SSC 101, SSC 305)			
FS	102	Freshman Seminar II	1
Subtotal			17

SECOND YEAR:

Third Semester

Fourth Semester

CS	252	Assembly Language and Architecture	3
CS	246	Data Structures and Algorithms	3
* MTH	237	Probability and Statistics	3
ENGL	211	Introduction to Literature	3
ART	100	Introduction to World Art	2
or			
MUS	100	Introduction to World Music	2
HIST	101	World Civilization I	3
or			
HIST	102	World Civilization II	3
Subtotal			17

CS	260	Digital Systems	4
CS	280	Artificial Intelligence	3
** CS		CS Concentration/Elective	3
PHY	211	University Physics I	4
HIST		History Elective	3
Select one: (HIST: 200, 201, 230, 231, 242)			
Subtotal			17

The A.S. Degree in Computer Science is awarded to students who complete the first two years of the B.S. Degree requirements (60 credits) outlined above.

* **Note:** MTH 237 is not required for the A.S. Degree. ** **Note:** 1-credit CS/Elective required for A.S. Degree.

THIRD YEAR:

Fifth Semester

Sixth Semester

CS	300	Theoretical Computer Science	3
CS	325	Computer Architecture	3
CS	345	Scientific Programming I-Data Analysis	3
PHY	213	University Physics III	4
ENGL	212	World Literature: The Evolving Canon	3
Subtotal			16

CS	315	Operating Systems	3
CS		CS Concentration/Elective	3
BIO	201	General Biology I	3
PHY	309	Electronics	4
or			
PHY	212	University Physics II	4
Subtotal			14

FOURTH YEAR:

Seventh Semester

Eighth Semester

CS	401	Computer Science Internship/Research I	3
CS	381	Database Systems	3
CS		CS Concentration/Elective	3
Open		Elective	3
Subtotal			12

CS	402	Computer Science Internship/Research II	3
CS		CS Concentration/Elective	3
Open		Elective	4
INTERNATIONAL OPTION			
Subtotal			13

TOTAL 120 Credits