

CENTRAL CONNECTICUT STATE UNIVERSITY
DEPARTMENT OF COMPUTER SCIENCE

Sample Program
B.S. in Computer Science (Honors)

Accredited by:
Computing Accreditation Commission (CAC) of
Accreditation Board for Engineering & Technology (ABET)

Fall 2007

FIRST YEAR

FALL		SPRING	
CS 151 – CS I	3	CS 152 – CS II	3
Math 152 – Calculus I	4	Math 221 – Calculus II	4
Eng 110 (FYE Section)	3	CS 254 – Assembly Language	3
GE Elective	3	GE Elective	3
PE 144	<u>2</u>	GE Elective	<u>3</u>
	15		16

SECOND YEAR

CS 153 – CS III	3	CS 253 – Data/File Structures	3
Math 218 – Discrete Math	4	CS 354 – Digital Design	3
Phil 245 – Computer Ethics	3	Stat 315 – Statistics	3
GE Elective	3	Phys 338 – Digital Systems Lab	1
GE Elective	<u>3</u>	GE Elective	<u>3</u>
	16		13

THIRD YEAR

CS 355 – Systems Programming	3	CS Adv. Area*	3
CS Adv. Area*	3	CS Adv. Dir. Elective*	3
Lab Science I**	4	Lab Science II**	4
GE Elective	3	GE Elective	3
GE Elective	<u>3</u>	GE Elective	<u>3</u>
	16		16

FOURTH YEAR

CS Adv. Dir. Elective*	3	CS Auxiliary Elective*	3
CS Adv. Dir. Elective*	3	CS Auxiliary Elective*	1
Science/Quantitative Elective	3	Free Elective	3
GE Elective	3	Free Elective	3
Free Elective	<u>3</u>	GE Elective	3
	15	Science/Quantitative Elective	<u>3</u>
			16

*See back page

**Bio 121 & 122; Chem 161, 162, 163 & 164; Esci 121 & 122; or Phys 125 & 126

Proficiency in foreign language must be demonstrated before graduation. See catalog for details.

GENERAL EDUCATION (38-45 SEMESTER HOURS)

Arts & Humanities Study Area I *	[]	<u>Literature</u>	(3)	[]	_____	(3)	[]	_____	(3)
Social Sciences Study Area II *	[]	<u>History</u>	(3)	[]	_____	(3)	[]	_____	(3)
Behavioral Sciences Study Area III	[]	_____	(3)	[]	_____	(3)			
Natural Sciences Study Area IV	[x]	<u>See below</u>		[x]	<u>See below</u>				
Communication Skill area I †	[]	<u>ENG 110</u>	(3)	[]	_____	(3)			
Mathematics Skill Area II	[x]	<u>See Below</u>		[x]	<u>See Below</u>				
Foreign Language Skill Area III	[]	_____	(0-6)		<u>See Details in Catalog</u>				
University Requirement Skill Area IV *	[]	<u>PE 144</u>	(2)						

* No more than 6 credit hours in any 1 discipline.

† Students who have not completed ENG 110 prior to earning 61 credit hours must take ENG 202 instead of ENG 110.

* PE 144 Required of students entering with less than 15 credits. See catalog.

INTERNATIONAL COURSES (1): Two of the above courses must be designated International (I).

[] _____ [] _____

FIRST YEAR EXPERIENCE: For students entering with fewer than 15 credit hours, one of the above courses must be a FYE section

[] _____

MAJOR: COMPUTER SCIENCE (HONORS)

COMPUTER SCIENCE – CORE COURSES (18 SEMESTER HOURS):

[] CS 151 (3) [] CS 152 (3) [] CS 153 (3) [] CS 253 (3) [] CS 254 (3) [] CS 354 (3)

COMPUTER SCIENCE – ADVANCED AREA COURSES (9 SEMESTER HOURS):

[] CS 355 (3) **AND CHOICE OF TWO FROM:** [] CS 385 (3) [] CS 463 (3) [] CS 464 (3)

COMPUTER SCIENCE – ADVANCED DIRECTED ELECTIVES (9 SEMESTER HOURS) - CHOICE OF THREE FROM:

[] CS 410 (3) [] CS 460 (3) [] CS 465 (3) [] CS 481 (3) [] CS 490 (3)
[] CS 423 (3) [] CS 462 (3) [] CS 473 (3) [] CS 483 (3)

COMPUTER SCIENCE – AUXILIARY ELECTIVES (4 SEMESTER HOURS) - ADDITIONAL COURSES TO TOTAL 4 SEMESTER HOURS SELECTED FROM THE ABOVE OR FROM:

[] CS 290 (1-3 cr) [] CS 398 (1-3 cr) [] CS 491 (3) [] CS 498 (1-3 cr)
[] CS 300 (3) [] CS 407 (1-3 cr) [] CS 492 (3) [] CS 499 (3)
[] CS 301 (3) [] CS 425 (3) [] CS 495 (3)

MATH/STATISTICS (15 SEMESTER HOURS—SATISFIES SKILL AREA II)

[] MATH 152 (4) [] MATH 218 (4) [] MATH 221 (4) [] STAT 315 (3)

SCIENCE/QUANTITATIVE (15 SEMESTER HOURS – SATISFIES STUDY AREA IV)

MUST INCLUDE BIO 121 & 122; CHEM 161, 162, 163 & 164; ESCI 121 & 122; OR PHYS 125 & 126 – AN ADDITIONAL 6 CREDITS IN SCIENCE (CANNOT INCLUDE MATH COURSES.)

[] PHYS 338 (1) [] _____ [] _____ [] _____ [] _____

PHILOSOPHY: [] PHIL 245 (3)

FREE ELECTIVES (0-18 SEMESTER HOURS, to make 122 credits total)

[] _____ [] _____ [] _____ [] _____

(MATH 119 is a prerequisite for CS 151)