

BACHELOR OF SCIENCE - COMPUTER SCIENCE

NIVERSITY COR	RE (44 CREDITS)		COMPUTING	G CORE (21 CREDITS)**	Credits	
Foundation Re	equirements (22 – 31 Credits)	Credits	CS 113	Math Structures for Computer	4	
ENG 110	(Can test out)	0-3		Science		
ENG 120	Critical Writing	4	CS 121	Computer Programming I	0	>><<
ENG 201	Writing in the Disciplines	3	CS 122	Computer Programming II	4	
COM 200	Public Speaking	3	CS 232	Computer Organization	4	
MAT 131	Calculus I	4	CS 241	Data Structures & Algorithms	4	
LAB Science	(BIO/CHE/PHY/ENV 222)	4	CS 271	Foundations of Unix Operating	2	
CS 121	Computer Programming I	4		Systems		
	e courses selected from: /JPN/GRK/ITA/LAT/RUS/SPA/SPE		CS 312	Research Methods in Computers	3	
		0 – 3	ADVANCED	REQUIRED COURSES (20 CREDITS)		
		0-3	CS 242	Algorithms & Computing Theory	4	
			CS 361	Programming Languages &	4	
Areas of Know	vledge (AOK) (24 – 25 Credits)			Implementation		
	itage (AOK 2) (2 Courses)		CS 371	Operating Systems & Architecture	4	
		3	CS 389	Software Engineering	4	
			CS 488	Computer Networks & the Internet	4	
World Traditi	ions & Cultures (AOK 3)			•		
(2 Courses)	, ,		ADVANCED	ELECTIVES IN COMPUTER SCIENCE (8 CF	REDITS)	
		3	CS		4	
		3	CS		4	
Humanistic &	Creative Expressions (AOK 4)					
(2 Courses)			MATHEMAT	ICS COURSES (4 CREDITS)		
		3	MAT 131	Calculus I	0	>><<
		3	MAT 132	Calculus II	4	
Analysis of Hu	uman, Social & Natural		MAT 234	Introduction to Probability &	0	>><<
	(AOK 5) (2 Courses)			Statistical Analysis		
MAT 234		4		·		
		3	SCIENCE & T	ECHNOLOGY COURSES (8 CREDITS)		
			 CHE 111/PI	HY 111/BIO 101	4	
			CHE 112/PI	HY 112/BIO 102	4	
REQUIRED LEA	ARNING EXPERIENCES		LAB Science	e (BIO/CHE/PHY/ENV 222)	0	>><<
Civic Engager	ment and Public Values					
	gagement (CE) course		OPEN ELECT	IVES (2 – 11 CREDITS)*		
_			UNV 101		1	
Learning Con	nmunity Requirement				3	
One Learning	Community (LC) course				3	
_					3	
Writing Enha	nced Course Requirement				3	
_	Enhanced (W) courses				2	
1.				Total Credi	ts =120	
2.						
One Learning Writing Enha Two Writing E	Community (LC) course			Total Credi	3 3 2	

*NOTE: ENG 105 C & D, MAT 100 and MAT 103 cannot be used toward the 120 credits for graduation.

UNV 101 Freshman Seminar is REQUIRED for all new Freshman.
Entering freshman are required to take one Civic Engagement
course, one Learning Community and two Writing Enhanced Courses.
**Students must earn a grade of C or better in each prerequisite core
course in order to take subsequent CS courses.
>><< Course is taken as part of the University Core Requirements.

ID Number	
Name	
Advisor	

BACHELOR OF SCIENCE COMPUTER SCIENCE NYC COURSE SEQUENCE

FIRST YEAR

FALL SEMESTER		SPRING SEMESTER	
UNV 101	1 credit	Civic Engagement	3 credits
Learning Community	6 credits	CS 113	4 credits
CS 121	4 credits	CS 122	4 credits
MAT 130*	4 credits	AOK 2, AOK 3, AOK 4 or AOK 5	3 credits
	15 credits	ENG 110	3 credits
			17 credits

SECOND YEAR

	FALL SEMESTER	SPRING	G SEMESTER
ENG 120	4 credits	ENG 201	3 credits
CS 241	4 credits	CS 242	4 credits
CS 271	2 credits	MAT 132	4 credits
MAT 131	4 credits	Language 2	3 credits
Language 1	3 credits	CS 232**	4 credits
	17 credits		18 credits

THIRD YEAR

FALL SEMESTER		SPRING SEN	MESTER
AOK 2, AOK 3, AOK 4 or AOK 5	3 credits	CS 488**	4 credits
AOK 2, AOK 3, AOK 4 or AOK 5	4 credits	CS 312**	3 credits
Lab Science I	4 credits	Lab Science II	4 credits
CS Elective	3 credits	COM 200	3 credits
	14 credits		14 credits

FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
CS 361**	4 credits	MAT 234**	4 credits
CS 371**	4 credits	CS 389**	4 credits
Lab Science University Core		CS Elective	4 credits
AOK 2, AOK 3, AOK 4 or AOK 5	3 credits	AOK 2, AOK 3, AOK 4 or AOK 5	3 credits
	14 credits		15 credits

BACHELOR OF SCIENCE COMPUTER SCIENCE PLV COURSE SEQUENCE

FIRST YEAR

FALL SEMESTER		SPRING SEMESTER	
UNV 101	1	CS 122 Computer Programming II	4
CS 121 Computer Programming I 4		MAT 130 Precalculus or MAT 131 Calculus I*	4
CS 113 Math Structures for Computer Science 4		ENG 120 Critical Writing	4
ENG 110 Composition or ENG 120 Critical Writing*	3 – 4	Learning Community or AOK	3 – 6
Learning Community, AOK or Civic Engagement 3 – 6		AOK or Civic Engagement	3
	15 – 18 credits		18 credits

SECOND YEAR

FALL SEMESTER		SPRING SEMESTER	
CS 241 Data Structures & Algorithms I	4	CS 242 Algorithms and Computing Theory	4
CS 271 Fundamentals of the Unix Operating System	2	CS 232 Computer Organization	4
MAT 131 Calculus I or MAT 132 Calculus II	4	MAT 132 Calculus II or MAT 234 Probability & Statistics	4
Learning Community, AOK or Civic Engagement	3 – 6	ENG 201 Writing in the Disciplines	3
Second Language*	3	Second Language	3
	16 credits		18 credits

THIRD YEAR

FALL SEMESTER		SPRING SEMESTER	
CS 371 Operating Systems & Architecture I	4	CS 361 Programming Languages & Implementation	4
CS Advanced Elective	4	MAT 234 Probability & Statistics	4
Lab Science I (CHE 111/PHY 111/BIO 101)	4	Lab Science II (CHE 112/PHY 112/BIO 102)	4
COM 200 Public Speaking	3	CS 488 Computer Networks or CS 312 Research Methods	3 – 4
AOK 2, AOK 3, AOK 4 or AOK 5	3		
18 credits		15 – :	16 credits

FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
CS Advanced Elective	4	CS 389 Software Engineering	4
AOK 2, AOK 3, AOK 4 or AOK 5	3	CS 488 Computer Networks or CS 312 Research Methods	4
AOK 2, AOK 3, AOK 4 or AOK 5	3	CS Advanced Elective	4
COM 200 Public Speaking	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
Lab Science (ENV 222/CHE/PHY/BIO)	4		
	17 credits	14	- 15 credits



BACHELOR OF SCIENCE - COMPUTER SCIENCE

Transfer Student

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Foundation Re	Foundation Requirements (22 – 31 Credits)		CS 113	Math Structures for Computer	4	
ENG 110	(Can test out)	0-3		Science		
ENG 120	Critical Writing	4	CS 121	Computer Programming I	0	>><<
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CS 121	Computer Programming I	4	<u></u>	Systems		
	e or culture course selected from: :/JPN/GRK/ITA/LAT/RUS/SPA/SPE		CS 312	Research Methods in Computers	3	
		0 – 3	ADVANCED	REQUIRED COURSES (20 CREDITS)		
		_	CS 242	Algorithms & Computing Theory	4	
Liberal Arts El	ectives (24 Credits minimum)		CS 361	Programming Languages &	4	
CHE 111/PHY	′ 111/BIO 101	4		Implementation		
CHE 112/PHY	′ 112/BIO 102	4	CS 371	Operating Systems & Architecture	4	
MAT 234		4	CS 389	Software Engineering	4	
		3	CS 488	Computer Networks & the Internet	4	
		3				
		3	ADVANCED	ELECTIVES IN COMPUTER SCIENCE (8 CR	REDITS)	
		3	CS		4	
			CS		4	
			MATHEMAT	TICS COURSES (4 CREDITS)		
			MAT 131	Calculus I	0	>><<
			MAT 132	Calculus II	4	
REQUIRED LEA	ARNING EXPERIENCES		MAT 234	Introduction to Probability &	0	>><<
Civic Engage	ment and Public Values			Statistical Analysis		
	gagement (CE) course			,		
_			SCIENCE & T	ECHNOLOGY COURSES (8 CREDITS)		
			CHE 111/PI	HY 111/BIO 101	4	
			CHE 112/PI	HY 112/BIO 102	4	
			LAB Science	e (ENV 222/CHE/PHY/BIO)	0	>><<
			OPEN ELECT	TIVES (2 – 11 CREDITS)*		
					3	
					3	
					3	
					3	
					3	
					3	
					2	

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D Number	
Name	
Advisor	

Total Credits

=120