

UNIVERSITY CORE (44 CREDITS)

Foundation Requirements (22 – 31 Credits)

	Credits
ENG 110 (Can test out)	0 – 3
ENG 120 Critical Writing	4
ENG 201 Writing in the Disciplines	3
COM 200 Public Speaking	3
MAT 131 Calculus I	4
Lab Science I (BIO 101 /CHE 111/PHY 111)	4
CS 121 Computer Programming I	4

Two language courses selected from:

ARA/CHI/FRE/JPN/GRK/ITA/LAT/RUS/SPA/SPE

0 – 3

0 – 3

Areas of Knowledge (AOK) (24 – 25 Credits)

Western Heritage (AOK 2) (2 Courses)

3

3

World Traditions & Cultures (AOK 3)
(2 Courses)

3

3

Humanistic & Creative Expressions (AOK 4)
(2 Courses)

3

3

Analysis of Human, Social & Natural
Phenomena (AOK 5) (2 Courses)

MAT 234 Introduction to Probability & Statistics

4

3

COMPUTING CORE (25 CREDITS)**

	Credits
CS 113 Math Structures for Computer Science	4
CS 121 Computer Programming I	0 >><<
CS 122 Computer Programming II	4
CS 232 Computer Organization	4
CS 241 Data Structures & Algorithms	4
CS 271 Foundations of Unix Operating Systems	2
CS 312 Research Methods in Computers	3

ADVANCED REQUIRED COURSES (24 CREDITS)

CS 242 Algorithms & Computing Theory	4
CS 331 Fundamentals of Data & Network Security	4
CS 361 Programming Languages & Implementation	4
CS 371 Operating Systems & Architecture	4
CS 389 Software Engineering	4
CS 488 Computer Networks & the Internet	4

ADVANCED ELECTIVES IN COMPUTER SCIENCE (8 CREDITS)

CS	4
CS	4

MATHEMATICS COURSES (12 CREDITS)

MAT 131 Calculus I	0 >><<
MAT 132 Calculus II	4
MAT 234 Introduction to Probability & Statistical Analysis	0 >><<

SCIENCE & TECHNOLOGY COURSES (8 CREDITS)

Lab Science I (BIO 101/CHE 111/PHY 111)	0 >><<
Lab Science II (BIO 102/CHE 112/PHY 112)	4

OPEN ELECTIVES (2 – 11 CREDITS)*

UNV 101	1
	3
	3
	3
	3
	2

Total Credits =120

REQUIRED LEARNING EXPERIENCES

Civic Engagement and Public Values

One Civic Engagement (CE) course

Learning Community Requirement

One Learning Community (LC) course

Writing Enhanced Course Requirement

Two Writing Enhanced (W) courses

1. _____
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 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 SEMESTER	
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	MAT 234**	4 credits
Lab Science I	4 credits	Lab Science II	4 credits
CS 361**	4 credits	COM 200	3 credits
	15 credits		15 credits

FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
CS 331	4 credits	CS 312**	3 credits
CS 371**	4 credits	CS 389**	4 credits
Computer Science Advanced Elective	4 credits	Computer Science Advanced 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
	15 credits		14 credits

*per placement score

**course is offered on a rotating schedule

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 I*	3	Second Language II	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 331 Fundamentals of Data & Network Security	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	4
AOK 2, AOK 3, AOK 4 or AOK 5	3		
18 credits		16 credits	

FOURTH YEAR

FALL SEMESTER		SPRING SEMESTER	
Computer Science Advanced Elective	4	CS 312 Research Methods	3
CS 389 Software Engineering	4	Computer Science Advanced Elective	4
AOK 2, AOK 3, AOK 4 or AOK 5	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
AOK 2, AOK 3, AOK 4 or AOK 5	3	Elective	3
Elective	3		
17 credits		13 credits	

*Course level is based on the results of the placement exam

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One language or culture course selected from: ARA/CHI/FRE/JPN/GRK/ITA/LAT/RUS/SPA/SPE	0 – 3

Liberal Arts Electives (24 credits minimum)

MAT 234 Introduction to Probability & Statistics	4
	4
	4
	3
	3
	3
	3
	3

REQUIRED LEARNING EXPERIENCES

Civic Engagement and Public Values

One Civic Engagement (CE) course

COMPUTING CORE (25 CREDITS)**

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CS 371 Operating Systems & Architecture	4
CS 389 Software Engineering	4
CS 488 Computer Networks & the Internet	4

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CS	4

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OPEN ELECTIVES (2 – 11 CREDITS)*

	3
	3
	3
	3
	3
	3
	3
	3

Total Credits =120

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