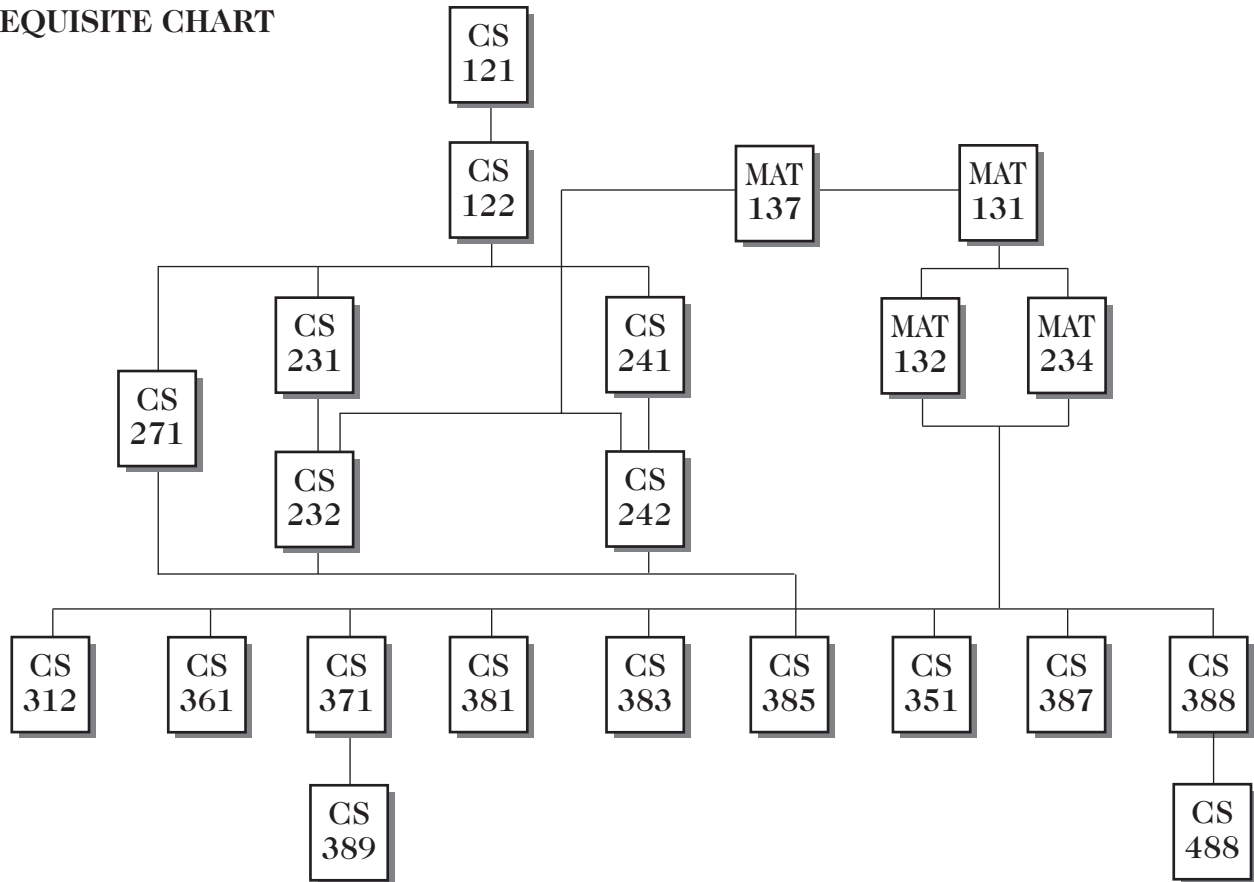


School of Computer Science & Information Systems  
Department of Computer Science

**PREREQUISITE CHART**



**COURSES IN CHART**

CS 121 Computer Programming I  
 CS 122 Computer Programming II  
 CS 231 Computer Organization I  
 CS 232 Computer Organization II  
 CS 241 Data Structures and Algorithms I  
 CS 271 Fundamentals of the UNIX Operating System  
 CS 242 Data Structures and Algorithms II  
 CS 296 Short Topics in Computer Science  
 CS 312 Research Methods in Computers and Society  
 CS 361 Programming Languages & Implementation  
 CS 371 Operating Systems & Architecture  
 CS 381 Systems Simulation  
 CS 396 Topics in Computer Science

CS 383 Computer Graphics  
 CS 385 Artificial Intelligence  
 CS 387 Database Design  
 CS 388 Data Communications  
 CS 389 Software Engineering  
 CS 488 Computer Networks & The Internet

MAT 137 Introduction to Discrete Mathematics  
 MAT 131 Calculus I  
 MAT 132 Calculus II  
 MAT 234 Introduction to Prob. & Stat. Analysis

CS 351 Automata & Computability

Student's Name: \_\_\_\_\_ Advisor: \_\_\_\_\_

Semester and Year Started at Pace: \_\_\_\_\_ Expected Date of Graduation: \_\_\_\_\_

# University Core Curriculum

## Foundation Experience

### WRITING

ENG 101  
ENG 102

Credits

Pace  
Grade

Transfer  
Credit

4
4



### SPEECH

SPE 101  
SPE 102

2
2



## Exploratory Experience

### LITERATURE

LIT 211  
LIT 212

3
3



### FINE & PERFORMING ARTS

One “**Exploratory**” course which carries any of the prefixes: ART/ DAN/ MUS/ THR.

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3
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### HISTORY

Two “**Exploratory**” HIS courses:  
one Western history course

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3
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one non-Western history course

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3
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### PHILOSOPHY

One “**Exploratory**” PHI course

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3
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### SCIENCE

Two “**Exploratory**” courses, including at least one laboratory course, which carry any of the prefixes: BIO/ CHE/ ENV/ PHY/ SCI

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3
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3
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### SOCIAL/ BEHAVIORAL SCIENCES

Two “**Exploratory**” ANT/ ECO/ POL/ PSY/ SOC/ courses in two different disciplines.

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3
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3
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### MODERN LANGUAGES AND CULTURES

One “**Exploratory**” course which carries any of the prefixes: CHI/ FRE/ GER/ ITA/ JPN/ RUS/ SPA numbered 102 or above.\*

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3
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## Enhancement Experience

Nine liberal arts education Core Credits\* offered by Dyson College labeled as “**Enhancement**” in at least two disciplines outside the student’s major.

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3
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3
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3
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\*Students taking a foreign language course numbered 101 as a prerequisite for their Modern Language requirement may apply those credits toward the “**Enhancement**” Experience.

**Note:** A listing of the courses applicable to the “**Exploratory**” and the “**Enhancement**” Experiences is available in the current catalog or from your Dean’s Office.

# Courses Required for the Computer Science Major

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<b>Core Courses</b> <sup>§</sup>	<b>Credits</b>	<b>Pace Grade</b>	<b>Transfer Credit</b>
CS 121 Computer Programming I	4		
CS 122 Computer Programming II	4		
CS 231 Computer Organization I	3		
CS 232 Computer Organization II	4		
CS 241 Data Structures & Algorithms I	4		
CS 242 Data Structures & Algorithms II	4		
CS 271 Fundamentals of the UNIX Operating System	1		

## Advance Electives in Computer Science\*<sup>†</sup> (9 Credits)

1 ) CS _____			
2 ) CS _____			
3 ) CS _____			

## Required Mathematics Courses

MAT 137 Introduction to Discrete Mathematics	4		
MAT 131 Calculus I	4		
MAT 132 Calculus II	4		
MAT 234 Intro. to Prob. & Stat. Analysis	4		

## Minor/Concentration

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Students must complement their BA/CS major with a minor in a discipline offered by Pace or an individual concentration designed in consultation with Department Chair

Minor/Concentration \_\_\_\_\_

_____	3		
_____	3		
_____	3		
_____	3		
_____	3		

Free Electives - To be determined by individual program.

_____	3		
_____	3		
_____	4		

**Total Credits Required for Graduation: 128**

<sup>§</sup> Students must earn a grade of "C" or better in each prerequisite core course in order to take subsequent computer science courses.

\* Computer Science Courses 296 or higher, any combination of 1, 3 or 4 credit courses.

<sup>†</sup> The department recommends that all students considering graduate work in computer science take CS351, Automata & Computability, as one of their CS electives.

# Sample Full Time Program

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Total Credits Required for Graduation: 128

## Sample Full Time Program

### Fall

#### **Freshman**

CS 121  
MAT 137  
ENG 101  
SPE 101  
History

#### **Sophomore**

CS 241  
LIT 211  
MAT 132  
Minor/Concentration Course  
CS 271

#### **Junior**

CS 231  
Philosophy  
Science & Technology  
Modern Lang. & Cult.  
History  
CS 271

#### **Senior**

CS Elective  
CS Elective  
Minor/Concentration Course  
Social & Behavioral Sciences  
Free Elective

### Spring

CS 122  
MAT 131  
ENG 102  
SPE 102  
Social & Behavioral Sciences

CS 242  
LIT 212  
MAT 234  
Enhancement Course  
Minor/Concentration Course

CS 232  
Science & Technology  
Minor/Concentration Course  
Free Elective

CS Elective  
Minor/Concentration Course  
Enhancement Course  
Fine & Performing Arts  
Free Elective