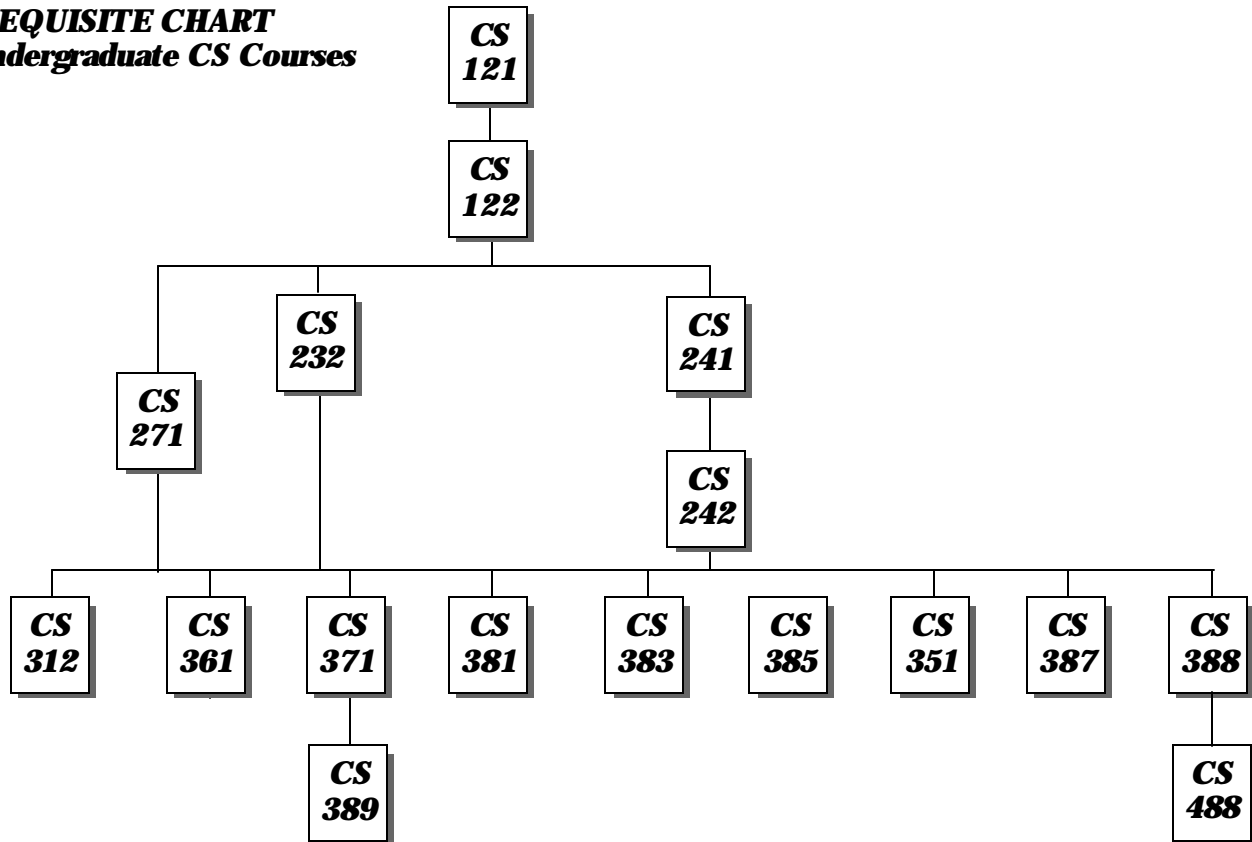


**School of Computer Science & Information Systems  
Department of Computer Science**

**PREREQUISITE CHART  
for Undergraduate CS Courses**



**COURSES IN CHART**

CS 121 **Computer Programming I**  
 CS 122 **Computer Programming II**  
 CS 232 **Computer Organization**  
 CS 241 **Data Structures and Algorithms I**  
 CS 242 **Data Structures and Algorithms II**  
 CS 271 **Fundamentals of the UNIX Operating System**  
 CS 312 **Research Methods in Computers and Society**  
 CS 361 **Programming Languages & Implementation**  
 CS 371 **Operating Systems & Architecture**  
 CS 381 **Systems Simulation**  
 CS 388 **Data Communications**  
 CS 396 **Topics in Computer Science**

CS 351 **Automata & Computability**  
 CS 383 **Computer Graphics**  
 CS 385 **Artificial Intelligence**  
 CS 387 **Database Design**  
 CS 389 **Software Engineering**  
 CS 488 **Computer Networks & The Internet**

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

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

# University Core Curriculum

<b>Foundation Experience</b>	<b>Credits</b>	<b>Pace Grade</b>	<b>Transfer Credit</b>
<b>WRITING</b>			
<b>ENG 101</b>	4		
<b>ENG 102</b>	4		
<b>SPEECH</b>			
<b>SPE 101</b>	2		
<b>SPE 102</b>	2		
<b>Exploratory Experience</b>			
<b>LITERATURE</b>			
<b>LIT 211</b>	3		
<b>LIT 212</b>	3		
<b>FINE &amp; PERFORMING ARTS</b>			
One "Exploratory" course which carries any of the prefixes: ART/ DAN/ MUS/ THR.			
_____	3		
<b>HISTORY</b>			
Two "Exploratory" HIS courses:			
one Western history course			
_____	3		
one non-Western history course			
_____	3		
<b>PHILOSOPHY</b>			
One "Exploratory" PHI course			
_____	3		
<b>SCIENCE</b>			
Two "Exploratory" courses, including at least one laboratory course, which carry any of the prefixes: BIO/ CHE/ ENV/ PHY/ SCI			
<b>PHY 109</b>	4		
_____	3		
<b>SOCIAL/ BEHAVIORAL SCIENCES</b>			
Two "Exploratory" ANT/ ECO/ POL/ PSY/ SOC courses in two different disciplines.			
_____	3		
_____	3		
<b>MODERN LANGUAGES AND CULTURES</b>			
One "Exploratory" course which carries any of the prefixes: CHI/ FRE/ GER/ ITA/ JPN/ RUS/ SPA numbered 102 or above.*			
_____	3		
<b>Enhancement Experience</b>			
Nine liberal arts Core Credits* offered by Dyson College labeled as "Enhancement" in at least two disciplines outside the student's major.			
_____	3		
_____	3		
_____	3		

\*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 B.A. in Computer Science Major

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<b>Core Courses</b> §	<b>Credits</b>	<b>Pace Grade</b>	<b>Transfer Credit</b>
<b>CS 121 Computer Programming I</b>	4		
<b>CS 122 Computer Programming II</b>	4		
<b>CS 232 Computer Organization</b>	4		
<b>CS 241 Data Structures &amp; Algorithms I</b>	4		
<b>CS 242 Data Structures &amp; Algorithms II</b>	4		
<b>CS 271 Fundamentals of the UNIX Operating System</b>	1		
<b>CS 388 Data Communications</b>	3		

### Advance Electives in Computer Science\* (9 Credits)

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

### Required Mathematics Courses

<b>MAT 137 Introduction to Discrete Mathematics</b>	4		
<b>MAT 131 Calculus I</b>	4		
<b>MAT 132 Calculus II</b>	4		
<b>MAT 234 Intro to Probability &amp; Statistical Analysis</b>	4		

## Courses Required for the M.S. in Information Systems

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### Core Courses

<b>IS 613 Database Management Systems</b>	3		
<b>IS 621 Structured Systems Analysis</b>	3		
<b>IS 622 Structured Systems Design</b>	3		
<b>IS 632 Business Telecommunications</b>	3		
<b>IS 637 Information Systems Project Management</b>	3		
<b>IS 639 Information Systems Planning &amp; Policy</b>	3		
<b>IS 692 Information Systems Research Project Seminar</b>	3		

### Graduate IS Electives (15 credits)

_____	3		
_____	3		
_____	3		
_____	3		
_____	3		

### Free Electives (12 Credits)

_____	3		
_____	3		
_____	3		
_____	3		

§ 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 300 or higher.

# **Sample Full Time Program**

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**Total Credits Required for Graduation: 152**

## **Fall**

### **Freshman**

**CS 121  
MAT 137  
ENG 101  
SPE 101  
History**

### **Sophomore**

**CS 241  
CS 271  
MAT 132  
LIT 211  
Science and Technology**

### **Junior**

**CS 232  
Philosophy  
Fine and Performing Arts  
Modern Language & Culture  
History**

### **Senior**

**IS 613  
IS 621  
CS Elective  
CS Elective  
Free Elective**

### **5th Year**

**IS 637  
Graduate IS Elective  
Graduate IS Elective  
Graduate IS Elective**

## **Spring**

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

**CS 242  
MAT 234  
LIT 212  
PHY 109  
Enhancement**

**CS 388  
Social & Behavioral Sciences  
Enhancement  
Enhancement  
Free Elective**

**IS 622  
IS 632  
CS Elective  
Free Elective  
Free Elective**

**IS 639  
IS 692  
Graduate IS Elective  
Graduate IS Elective**