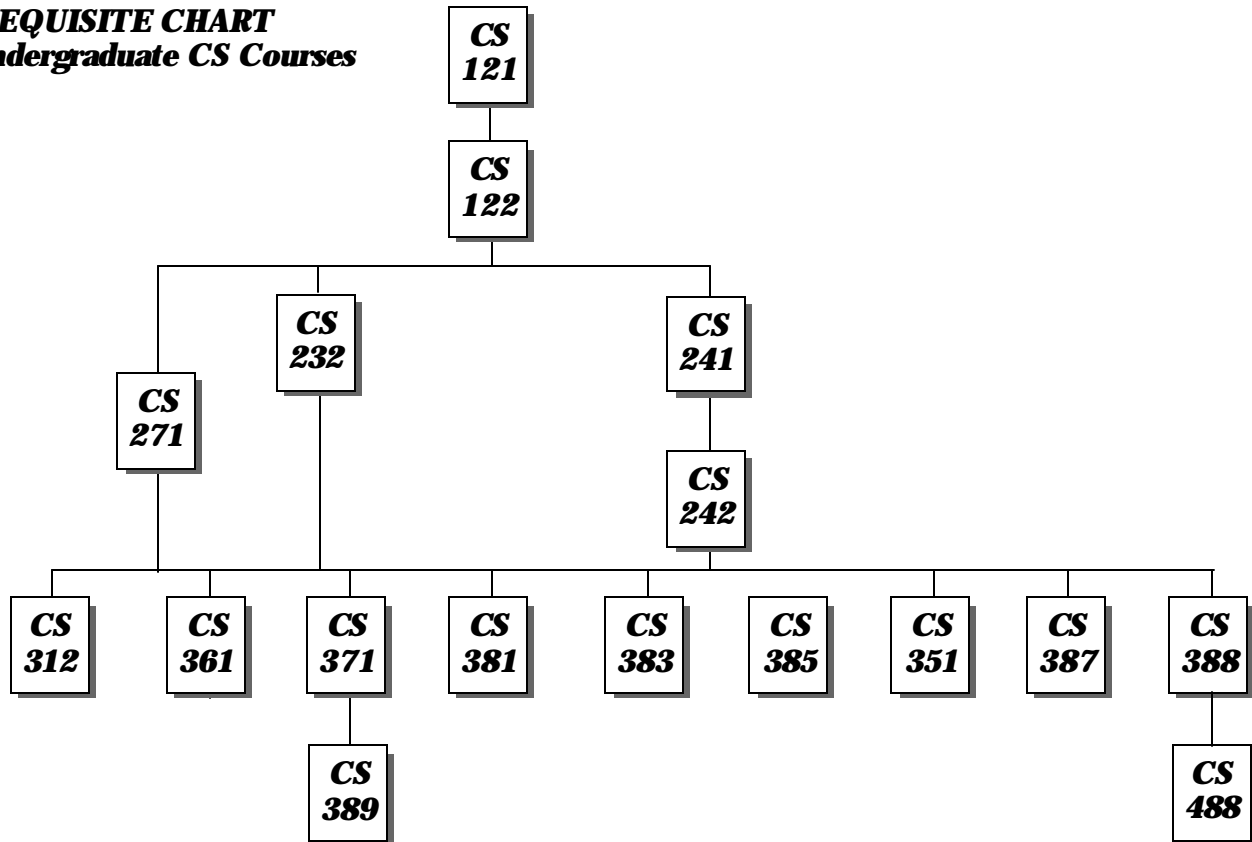


**School of Computer Science & Information Systems
Department of Computer Science**

**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

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

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

Advance Electives in Computer Science* (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 Probability & Statistical Analysis	4		

Courses Required for the M.S. in Telecommunications

Core Courses

CS 607 Simulation and Computer Network Analysis	3		
CS 633 Data Communications and Networks	3		
CS 634 Computer Networking and TCP/IP	3		
CS 636 Wide Area Digital Networking	3		
IS 650 Telecommunications Management	3		
IS 652 Telecommunications Policy and Environment	3		
IS 654 Cases in Telecommunication Systems	3		

Telecommunications 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

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

**CS 607
CS 633
CS Elective
CS Elective
Free Elective**

5th Year

**CS 636
IS 650
IS 654
TLC 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**

**CS Elective
TLC Elective
TLC Elective
Free Elective
Free Elective**

**CS 634
IS 652
TLC Elective
TLC Elective**