

Bachelor of Science - Computer Science

Degree Requirements Worksheet

130 Credits

Student Name: _____

ID: _____

GPA: _____

REQUIRED CORE COURSES

Completed	Course	Title	Prerequisites
	Math 111	Calculus I (4 credits)	Placement OR B in Math 139
	Math 112	Calculus II (4 credits)	C in Math 111
	Math 244/333	Introduction to Probability Theory/ Probability & Statistics	C in Math 112
	Math Elective - Restricted*		Math 244/333
	Math Elective**		
	Physics 111	Physics I	Corequisite: Math 111
	Physics 111 A	Physics I Lab	Corequisite: Math 111
	Physics 121	Physics II	PHYS 111 AND Math 111 Corequisite: Math 112
	Physics 121 A	Physics II Lab	C in PHYS 111 AND Math 111 Corequisite: Math 112
	Science	BIO/CHEM/PHYS	
	Science Lab	BIO/CHEM/PHYS	
	Interdisciplinary Elective 1***	300/400 level	
	Interdisciplinary Elective 2***	300/400 level	
	Interdisciplinary Elective 3***	300/400 level	
	CS 107	Computing as a Career	Freshman standing
	CS 207	Computing & Effective Communication	Sophomore standing
	CS 407	Professional Development in Computing	Senior standing

*Restricted Math Elective policy: If you took Math 244 take Math 341. If you took Math 333 select a course from the **Math Electives below.

**Math Elective must either be CS 337, Math 211, Math 213, Math 222 or any Math 300/400 level except Math 305.

***Interdisciplinary Electives: A coherent set of 300/400 level courses from:
Math (Except Math 305), Science (PHYS, CHEM, BIO), Engineering (IE, EE) or School of Management (ACCT, ECON, ENTR, FIN, HRM, MIS, MGMT, MRKT, OM).

GENERAL UNIVERSITY REQUIREMENT COURSES (GUR)

Completed	Course	Title	Prerequisites
	HUM 101	English Composition: Writing, Speaking, Thinking I	Placement OR C in HUM 099
	HUM 102	English Composition: Writing, Speaking, Thinking II	C in HUM 101
	HUM 211/HUM 212/HIST 213	Pre-Modern World/The Modern World/The Twentieth-Century World	C in HUM 102
	Social Science I*		
	Social Science II*		
	ENG 340/352	Oral Presentations/Technical Writing	C in HUM 102 AND HUM 211/212/HIST 213
	MGMT 390/IE 492	Principles of Management/Engineering Management	Junior OR Senior standing
	Upper LIT/PHIL/HIST/STS	300/400 level	C in HUM 102 AND HUM 211/212/HIST 213
	Humanities Senior Seminar	HSS 400 level	UM 211/212/HIST 213 AND Upper LIT/PHIL/HIST/STS
	Lower General Elective 1**	100/200 level	
	Lower General Elective 2**	100/200 level - co-op credit allowed	
	Upper General Elective **	300/400 level - co-op credit allowed	
	Physical Education I		
	Physical Education II		

*Social Science Courses: ECON 201/265/266, EPS 202, STS 201/210/221, RU Psychology/Sociology/Criminal Justice/Anthropology/Political Science.

**Two electives MUST be from CS/IS/IT/Math/Science/Engineering.

REQUIRED CCS COURSES

Completed	Course	Title	Prerequisites
	CS 100	Roadmap to Computing	N/A
	CS 113	Introduction to Computer Science	C in CS 100
	CS 114	Introduction to Computer Science II	C in CS 113
	CS 241	Foundations of Computer Science I	C in CS 114 AND Math 112
	CS 252	Computer Organization & Architecture	C in CS 113
	CS 280	Programming Language Concepts	C in CS 114
	CS 288	Intensive Programming in Linux	C in CS 114 AND CS 280
	CS 332	Principles of Operating Systems	C in CS 114
	CS 341	Foundations of Computer Science II	C in (CS 241 OR Math 226) AND CS 280
	IS 350	Computers, Society & Ethics	C in CS 100 AND HUM 101 AND (1) SS COURSE
	CS 356	Introduction to Computer Networks	C in CS 288
	CS 431	Database System Design & Management	C in CS 114
	CS 435	Advanced Data Structures & Algorithm Design	C in CS 241 AND CS 288
	CS 490	Guided Design in Software Engineering	CS 288
	CS/IT 491	Senior Project	Senior standing
	CS Elective	Must be 200 level or above	
	CS/IS/IT Elective	Must be 200 level or above - co-op credit allowed	

OTHER CREDITS (CREDITS DO NOT COUNT TOWARDS DEGREE REQUIREMENTS)

Completed	Course	Title	Prerequisites

REVIEW DATES & ADDITIONAL NOTES

You can earn up to six co - op credits. For more information please visit [CDS: njit.edu/cds/students/co-op/index.php](http://cds.njit.edu/cds/students/co-op/index.php)

LABEL KEY

- Have not taken this course
- Courses in progress
- Will register for this course
- Completed course
- Pending transfer credit

ACADEMIC ADVISOR: _____

ACADEMIC ADVISOR EMAIL: _____

Please note it is the student's responsibility to verify the accuracy of this grid against their transcript and report any discrepancies to their advisor. 2/7/2014