



Associate of Science Computer Science to Bachelor of Science Computer Science

HCCC AS - Computer Science

Course Number	Course Name	Credits
CSS100	College Student Success	1
ENG101	College Composition I	3
ENG102	College Composition II	3
MAT111	Calculus I	4
MAT112	Calculus II	4
PHY111	Engineering Physics I	4
1 Social Science Elective	TBD	3
HUM101 *	Cultures and Values (Humanities Elective)	3
1 Social Science or Humanities Elective	TBD	3
ENG112	Speech	3
MAT211	Calculus III	4

Complete Major Requirements

CSC113	Computer Logic and Discrete Math	3
CSC115	Programming in C++ For Comp Science	3
CSC214	Data Structures & Adv Programming	3

Complete 1 Course from below:

CSC117 *	Java Programming	3
CSC118	Python Programming	3

Complete 1	Math or Science Elective	4
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Complete 3 Courses from:

CSC226 *	Database Design and Concepts	3
CSC227 *	Intro to Operating Systems	3
CSC230	Data Communication Concepts	3
CSC231	Info Systems Analysis and Design	3
CSC232	Cybersecurity	3
CSC235	Newtork Security	3
CSC240 *	Intro to Networks and Networking	3
CSC242	Computer Forensics and Investigations	3
CSC245	Ethical Hacking	3

Note:

* Recommended by HCCC

NJCU BS - Computer Science

Course Number	Course Name	Credits
INTD101	Orientation to College	1
ENGL101	English Composition I	3
ENGL102	English Composition II	3
MATH192	Calculus and Analytic Geometry I	4
MATH193	Calculus and Analytic Geometry II	4
PHYS140+1140	Principles of Physics I - Lecture + Lab	3
TBD		3
WGST110	Diversity and Difference: Identities, Communities, and Cultures	3 *
TBD		3
ENGL147	Effective Speaking	3
MATH292	Calculus & Analytical Geometry III	

CS202	Discrete Structures I	3
CS102	Computer Science II	3
CS209	Data Structures	3

CS101	Computer Science I	3 *
CSC252	Program. for Python & Comp Science Princ.	3

Complete 1	TBD	4
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CS306	Data Base Design	3 *
CS206	Concepts of Operating Systems	3 *
CS210	Fundamentals of Telecomm and Network	3
CS240	System Design & Analysis	3
SECU222	Computer Security I	3
SECU309	Intro to Computer & Network Security	3
CS410	Telecommunications & Networks	3 *
SECU345	Computer Forensics I	3
SECU340	Ethical Hacking	3

Total Credits Transferred 60

General Education Waiver Awarded

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS
Major Requirements		15-24
CS 101 *	Computer Science I	0-3 *
CS 102	Computer Science II	0
CS 202	Discrete Structures I	0
CS 203	Discrete Structures II	3
CS 204	Computer Organization	3
CS 206 *	Concepts of Operating Systems	0-3 *
CS 209	Data Structures	0
CS 300	Computer Architecture	3
CS 306 *	Data Base Design	0-3 *
CS 350	Software Engineering I	3
CS 351	Software Engineering II	3
Advanced Major Electives		9-12
CS 302	Programming Languages	3
CS 355	Visual Programming	3
CS 360	Computer Graphics	3
CS 365	Advanced Java Programming	3
CS 401	Introduction to Algorithms	3
CS 402	Compiler Design	3
CS 404	Artificial Intelligence	3
CS 405	Theory of Computability	3
CS 407	Introduction to Unix/Linux System Administration and Shell Programming	3
CS 408	Introduction to Cryptography	3
CS 409	Introduction to Data Science	3
CS 410 *	Telecommunications & Networks	0-3 *
CS 417	Object-Oriented Methodologies	3
CS 420	Cloud Security with Artificial Intelligence Approach	3
CS 430	Internet Multimedia Programming	3
CS 599	Data Mining	3
Free Elective Courses		24-36

Note:

* This course may transfer in