

Mohawk Valley Community College Computer Science					University at Albany Computer Science B.S. (Combined Major/Minor)				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
CF100	College Foundations Seminar (1)			1	QNCRE00	No Credit Given at UAlbany			0
CI110	Principles of Programming		X	3	ICSI 201	Introduction to Computer Science		X	3
CI130	Programming in C++			3	ICSIE00	Computer Science Elective – no credit given in major/minor			3
EN101	English 1: Composition	X		3	ANEG 100Z	Introduction to Analytical Writing	X		3
MA151	Calculus 1	X	X	4	AMAT 112	Calculus I	X	X	4
	Core GE Social Science (A)	X		3		SUNY Gen Ed Social Science	X		3
	Physical Education			.5		General Elective Credit			.5
CI230	Data Structures		X	3	ICSI 213	Data Structures		X	3
EN102	English 2: Ideas & Values in Literature	X		3	AENG 121	Reading Literature	X		3
MA152	Calculus 2	X		4	AMAT 113	Calculus II	X	X	4
PH115	Science of Multimedia			4	ACASE10	100-Level Arts and Sciences Elective			3
	GE Social Science (A)	X		3		SUNY Gen Ed Social Science	X		3
	Physical Education			.5		General Elective Credit			.5
PH261	Engineering Physics 1 (Suggested Physics Elective) (2)	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
CI245	JAVA Programming			3	ICSI 205	Object Oriented Programming for Data Processing Applications			3
CI285	Systems Operations & Management			3	BFOR 419	System Administration & Operating Systems Concepts			3
MA275	Discrete Algebraic Structures		X	4	ICSI/ICEN 210	Discrete Structures		X	4
	Physical Education			.5		General Elective Credit			.5
CI260	Microcomputer Programming			3	ICSIE00	Computer Science Elective – no credit given in major/minor			3
CI271	Database Design & Implementation			3	BFOR 205	Introduction to Database Systems			3
PH262	Engineering Physics 2 (Suggested Physics Elective) (2)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
	Elective (B)			3		General Elective Credit			3
	Physical Education			.5		General Elective Credit			.5
					Total Credits Eligible for Transfer				
					61				
					Additional Required and Elective Courses for the Major at UAlbany				
					Challenges of the 21 st Century				
					X				
					Social, Security, and Privacy Implications of Computing				
					X				
					Principles of Programming Languages				
					X				
					Programming at the Hardware Software Interface				
					X				
					Systems Programming				
					X				
					Algorithms and Data Structures				
					X				
					Computer Organization				
					X				
					Automata and Formal Languages				
					X				
					Calculus of Several Variables				
					X				
					Linear Algebra				
					X				
					Discrete Probability				
					X				
					Science Sequence (4)				
					X				
					Elective Credits Required for Degree Completion				
					X				
					Computer Science Electives (5)				
					X				
					Total Credits required at UAlbany				
					59				
					Total Credits Applied to Program				
					61				
					Total Credits Required for Degree				
					120				
Total credits required for degree completion at MVCC					62				

(A)GE Social Science (choose one): AN 101, BM 101, GE 101, PS 101, PY 101, or SO 101

(B)Elective: with permission of advisor

(1)The University at Albany does not accept transfer credit for College Foundations Seminar courses.

(2)This course is suggested because it meets a requirement for the major at UAlbany upon transfer.

(3)Students may also take any AMAT courses numbered 300-level or higher.

(4)Students must take one pair of related major biological, physical or engineering science courses as approved by the department. Approved pairs include: ABIO 130 and ABIO 131, APHY 240 and APHY 250, two courses from APHY/ICEN 353, APHY 415, and APHY 454, or others as approved.

(5)Students must select 6-9 credits from ICSI courses number 300-470, 500-550, or specially approved. 3 credits may be in APHY/ICEN 353, APHY 454, or APHI 432.

A transfer student admitted to the University at Albany who has completed his/her A.A. or A.S. degree will be given credit for meeting SUNY's General Education requirements.

A grade of C or S or better in courses ICSI/ICEN 210, ICSI/ICEN 213, and ICSI/ICEN 333 or their transfer equivalents is a prerequisite for certain succeeding courses that are required in the program. Interested students should check the course descriptions for details. In unusual situations, such prerequisites might be waived by the department on recommendation of the succeeding course instructor. Students who do not achieve B or better grades in ICSI/ICEN 201, ICSI/ICEN 213, and ICSI/ICEN 333 are strongly advised to consider other majors besides Computer Science because such students may not successfully complete upper level Computer Science courses required for graduation.