

University at Albany College of Engineering and Applied Sciences

Dutchess Community College Computer Science A.S.					University at Albany Computer Engineering 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
BHS 103	Social Problems in Today's World	X		3	ASOC 180	Social Problems	X		3
CHE 121	General Chemistry I(Suggested Science Elective) (1)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CIS 227	Assembler Language Programming			3	ICSI 010	Computer Science Elective			3
CLP 101	Career Exploration and Planning (2)			3	ECPY 204	Principles of Career and Life Planning			3
CPS 141	Introduction to Computer Science Programming		X	4	ICSI 201	Introduction to Computer Science		X	4
CPS 142	Advanced Programming Techniques			3	ICSI 010	Computer Science Elective			3
CPS 231	Data Structures		X	3	ICSI 213	Data Structures		X	3
ENG 101	English Composition	X		3	AENG 100Z	Introduction to Analytical Writing	X		3
ENG 102	English Composition II	X		3	AENG 010Z	English Elective	X		3
MAT 215	Linear Algebra	X	X	3	AMAT 220	Linear Algebra	X	X	3
MAT 221	Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 222	Calculus II	X	X	4	AMAT 113	Calculus II	X	X	4
MAT 223	Calculus III (Suggested Elective) (1)	X	X	4	AMAT 214	Calculus of Several Variables	X	X	3
MAT 224	Differential Equations (Suggested Free Elective) (1)	X	X	4	AMAT 311	Ordinary Differential Equations (2)	X	X	4
PHY 151	Engineering Physics I (Suggested Elective) (1)	X	X	4	APHY 140/145	Physics I:Mechanics/Lab	X	X	4
PHY 152	Engineering Physics II (Suggested Elective) (1)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
WFE 101	Lifetime Wellness and Fitness			3	DPEC 030	Physical Education Elective			3
	American History	X		3		History Elective	X		3
	General Education Elective (3)	X		6		SUNY Gen. Ed. Elective	X		6
					Total Credits Eligible for Transfer				
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century	X	X	3
					AMAT 370	Probability & Stats for Engineering Sciences		X	3
					ICEN 140	Intro to Engineering Design		X	3
					ICEN 150	Intro to Engineering Analysis		X	3
					ICEN 210	Discrete Structures		X	3
					ICEN 340	Digital Logic Design		X	3
					ICEN 350	Signals and Systems		X	3
					ICEN 353	Microprocessor Applications		X	3
					ICEN 400	Operating Systems		X	3
					ICEN 404	Computer Organization		X	3
					ICEN 415	Electronics		X	3
					ICEN 416	Communications I		X	3
					ICEN 430	Systems Analysis and Design		X	3
					ICEN 440	Design Lab I		X	3
					ICEN 450	Design Lab II		X	6
					ICEN 454	Micro Processor Applications Lab		X	3
					ICSI 333	Programming - Hardware/Software Interface		X	4
						Computer Engineering Electives (4)		X	12
Total credits required for degree completion at SUNY Dutchess					Total Credits Required at UAlbany				
68					67				
					Total Transfer Credits Applied to Program				
					68				
					Total Credits Required for Degree				
					135				

- (1)This course is suggested because it meets a requirement for the major at UAlbany upon transfer.
- (2)This is recommended because CPS 100 does not transfer in for credit.
- (3)Students will must select a course that meets one of the following General Education Requirements: American History, Western Civilizations, Other World Civilizations, The Arts, or Foreign Languages.
- (4)Students will select four courses from the following: ICEN 360, ICEN 370, ICEN 460, ICEN 470, ICEN 480, ICSI 311, ICSI 402, ICSI 403, ICSI 405, ICSI 410, ICSI 411, or ICSI 418.

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.