

Articulation AS Degree - Computer Programming and Analysis Course List - Valencia Community College

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Valencia Community College			DeVry University			Notes
Computer Programming and Analysis			Computer Information Systems			
Associate in Science Degree			Bachelor of Science Degree			
All AS Degree-seeking students must satisfy entry assessment requirements			All BS Degree seeking students must satisfy placement requirements			
Semester			Graduation Requirements		Semester	
Course Numbers	Course Names	Cr. Hr.	Course Numbers	Course Names	Cr. Hr.	
Foundation Courses						
ENC 1101	Freshman Composition I	3	ENGL 112	Composition	4	
MAC 1105 or Higher Mathematics	College Algebra or Higher Mathematics	3	MATH 114	Algebra for College Students	4	
COP 1006	Introduction to Programming Concepts	3	**See Group Technical Course credit below		See Below	
CGS 2100	Microcomputer Fundamentals and Applications	3	COMP 100	Computer Applications for Business with Lab	2	
SPC 1600	Fundamentals of Speech	3	SPCH 282/275/277	Small Group Communications/Public Speaking/Interpersonal Communications	3	
Humanities	(See A.S. Gen Ed Requirement)	3	HUMN ---	Humanities - Area A	3	
Total Foundation Courses		18			13 & Technical Credit Below	
Intermediate Courses						
Select one of the following 2 courses:						
CGS 1560 or CET 2179C	Introduction to Operating Systems or A+ Concepts (Software)	3	**See Group Technical Course credit below		See Below	
Social Science	(See A.S. Gen Ed Requirements)	3	Social Science - Level A		3	
CET 2178C	A+ Concepts (Hardware)	3	**See Group Technical Course credit below		See Below	
CGS 2545	Database Management Systems	3	**See Group Technical Course credit below		See Below	
COP 2822	Web Publishing	3	**See Group Technical Course credit below		See Below	
	Computer Programming and Analysis Business Elective	3	See list below		3-4	
Total Intermediate Courses		18			13-14 & Technical Credit Below	
Advanced Courses						
Gen Ed Elective	(See A.S. Gen Ed Requirements)	3	ENGL 135	Advanced Composition	4	Suggested course other credits will apply
Computer Programming and Analysis - Restricted Electives		9	**See Group Technical Course credit below		See Below	Counts may vary slightly based actual courses used
Computer Programming and Analysis - Non-Restricted Electives		10	**See Group Technical Course credit below		See Below	Counts may vary slightly based actual courses used
CIS 2910	IT Capstone	4	**See Group Technical Course credit below		See Below	
CIS 2942 or SLS 1303	Internship in Computer Programming or Job Search	1	Not a transferable course to DeVry		0	
Total Advanced Courses		27			See Technical Credit	
Total Hours Required		63			59-60	
					DeVry's Required minimum credit hours for this degree for graduation	124
					Approximate credit hours left for graduation	64-65
					Approximate time left at DeVry as full-time student using average of 16 credit hours per 15 week semester	4.0 - 4.5 semesters

Computer Programming and Analysis Business Electives			Only one of the courses below is needed by Valencia CC		
ACG 2021	Principles of Financial Accounting	3	ACCT 301	Essentials of Accounting	4
BUL 2241	Business Law I	3	No comparable course in BS CIS curriculum		0
ECO 2013	Principles of Economics (Macro)	3	ECON 312	Principles of Economics (Micro & Macro)	3
ECO 2023	Principles of Economics (Micro)	3	ECON 312	Principles of Economics (Micro & Macro)	3
GEB 1011	Introduction to Business	3	BUSN 115	Introduction to Business and Technology	3
GEB 1136	Foundations of E-Business	3	No comparable course in BS CIS curriculum		0
MNA 1031	Project Management	3	MGMT 404	Project Management	4
Computer Programming and Analysis Restricted Electives					
CGS 2786	Web Development Tools	3	**See Group Technical Course credit below		See Below
Select one of the following 3 courses:					
COP 1332 or	Introduction to Visual Basic or	3	**See Group Technical Course credit below		See Below
COP 2360 or	C# Programming or		**See Group Technical Course credit below		See Below
COP 2800	Java Programming		**See Group Technical Course credit below		See Below
COP 1812	Extensible Markup Language (XML) and Web Services	3	**See Group Technical Course credit below		See Below
COP 2220	C Programming	3	**See Group Technical Course credit below		See Below
COP 2341	Linux Shell Scripting	3	**See Group Technical Course credit below		See Below
COP 2805	Advanced Java Programming	3	**See Group Technical Course credit below		See Below
COP 2821	Advanced Microsoft Application Development	3	**See Group Technical Course credit below		See Below
COP 2823	Advanced Web Publishing - Active Server Pages	3	**See Group Technical Course credit below		See Below
COP 2830	Scripting Languages	3	**See Group Technical Course credit below		See Below
Computer Programming and Analysis Non-Restricted Electives (A sampling of course equivalents)					
Any course in the Course Descriptions section of the Valencia Catalog with the subject prefix of CET, CIS, COP, or COT or the Course CGS 1555 Internet Web Essentials			**See Group Technical Course credit below		See Below

DeVry Group Technical Course Credit

The corresponding courses will be applied as credit for the course credit denoted above for Group Technical Credit as long as the complete AS degree requirements are met.					
Technical Credit	Total VCC Technical Credits (Excluding CGS 2100)	38	CIS 115	Logic & Design	3
			CIS 206	Architecture & Operating Systems w/Lab	4
			CIS 170 A/B	Programming w/Lab	4
			CIS 246	Connectivity w/Lab	4
			CIS 247 A/B	Object-oriented Programming w/Lab	4
			SEC 280	Principles of Information Systems Security	3
			CIS 363 A/B	Web Interface Design w/Lab	4
			CIS 321	Structured Analysis & Design	3
			CIS 336	Introduction to Database w/Lab	4
			Total Group Technical Credit		33

Note: **HUMN 432 - Technology, Society and Culture is a capstone accumulative Gen Ed requirement for DeVry - All students must take in residence at DeVry and CARD 405 - Career Development must be taken in residence at DeVry