Cleveland State University
Washkewicz College of Engineering
Associate of Applied Science to Bachelor of Science in Computer Science Pathway

SUGGESTED SEQUENCE AT TRI-C

First Year

Fall Semester	Credits		Spring Semester	Credits
ENG 1010/101H College Composition I	3		ENG 1020/102H College Composition II	3
MATH 1610 Calculus I	5		MATH 1620 Calculus II	5
CHEM 1300 General Chemistry I	4		PHYS 2310 General Physics I	5
CHEM 130L General Chemistry I Lab	1		IT 1050 Programming Logic	3
MET 1100 Technology Orientation	2			
Social & Behavioral Science Elective*	3			
Semester Total	**18**		**Semester Total**	**16**

Second Year

Fall Semester	Credits		Spring Semester	Credits
ITMP 2650 Java Programming	4		ITMP 2660 Data Structures & Algorithm	4
PHYS 2320 General Physics II	5		MATH 2410 Linear Algebra	3
MATH 2010 Intro to Discrete Math	4		PHL 2020 Ethics	3
Arts & Humanities Non-US**	3		IT 2351 Enterprise Database	3
			Social & Behavioral Science Elective**	3
Semester Total	**16**		**Semester Total**	**16**
			Total minimum credits earned at Tri-C	**66**
			Associate of Science Degree Awarded	

SUGGESTED SEQUENCE AT CSU

Third Year

Fall Semester	Credits		Spring Semester	Credits
CIS 335 Language Processors	3		ESC 282 Engineering Economy	3
CIS 340 Systems Programming	3		CIS 345 Operating Systems	3
CIS 390 Intro to Algorithms	3		CIS 480 Intro to Computer Architecture	3
CIS 424 Comparative Program Lang	3		CIS 434 Software Engineering	3
EEC 414 Writing in Elec & Comp Eng	3		CIS 430 Database Concepts	3
Semester Total	**15**		**Semester Total**	**15**

Fourth Year

Fall Semester	Credits		Spring Semester	Credits
EEC 493 Senior Design I	2		EEC 494 Senior Design II	3
CS Core Choice	3		CS Core Choice	3
CS Core Choice	3		CS Major Elective	3
CS Core Choice	3		CS Major Elective	3
CS Major Elective	3		ESC 310 Engineering Stats	3
CS Major Elective	3			
Semester Total	**17**		**Semester Total**	**17**
			Bachelor of Arts Awarded	**127**

* Social and Behavioral Science Elective course suggestions: SOC 2310, 2550
** At least one of the non-US courses must be designated "NW" (i.e. AHNW or SSNW 100)

Additional Information:
Assumptions: college-level readiness in MATH (eligible to register for Calculus I) and ENG; no Foreign Language Deficiency (FLD).

Grade restriction: Computer Science students are limited to two grades of "D" in CIS courses.

CSU requires a minimum of 120 total credit hours for graduation. At least 30 credits must be completed in-residence at CSU. At least 24 of the in-residence credits must be completed at the upper division (300/400) level. An overall total of 42 upper division (300/400) level credits are required. Students deficient in total credits or in-residence credits must take additional elective credits to meet the minimum requirements. Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

For students who have earned an Associate of Arts degree from Cuyahoga Community College, the following general education categories will be considered met: English Composition, Mathematics/Quantitative Literacy, Arts & Humanities (including the non-US/ALAAME requirement), Social Sciences (including the non-US/ALAAME requirement), Natural Science (including the lab requirement) and Social Diversity. Students would still be required to take at least two Writing Across the Curriculum (WAC) courses (including one in the major) and complete a Capstone Experience in the major. The WAC and Capstone Experience requirements are typically met with upper-division courses. Students who do not complete the Associate of Arts degree are responsible for the completion of the entire General Education Requirements at Cleveland State University.

This map represents one example of how to complete the AS and BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options.

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