

COMPUTER SCIENCE 346004BS

Bachelor of Science in Computer Science-Systems Track

The following information has official approval of the Department of Computer Science, College of Arts and Sciences at the University of Akron, but is intended only as a supplemental guide. Official degree requirements are established at the time of admission to the degree-granting college. Completion of this degree within the identified time frame below is contingent upon many factors. If you are not a direct admit, please see your adviser regarding the transfer process. *Consult with the General Education guide <https://www.uakron.edu/general-education/> to fulfill General Education requirements below*

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2017 OR LATER

1 st Year	Fall Semester	Credit Hours	Prerequisites
	<i>Writing Requirement 1 (Note a)</i>	3	Appropriate placement by advisor
	Beginning Language I	4	
	-OR-	or	
7700:101	American Sign Language I (Note c)	3	
3450:208	*Introduction to Discrete Mathematics (Note b)	4	3450:145 or 3450:149 with a C- or better or equivalent
3460:209	*Computer Science I	4	3450:145 or 3450:149 with a C- or better or equivalent
Total		14-15	

1 st Year	Spring Semester	Credit Hours	Prerequisites
	<i>Writing Requirement 2 (Note a)</i>	3	3300:111 or equivalent
	Beginning Language II	4	Beginning Language I
	-OR-	or	or
7700:102	American Sign Language II (Note c)	3	7700:101
3460:210	*Computer Science II	4	3450:208 and 3460:209 with a C- or better
3450:221	*Analytic Geometry-Calculus I	4	3450:149 with a C- or better or equivalent
Total		14-15	

* **Preadmission Requirement** – must be completed prior to applying for admission into the Computer Science program.

2 nd Year	Fall Semester	Credit Hours	Prerequisites
	<i>Speaking Requirement</i>	3	
	Intermediate Language I	3	Beginning Language II
	-OR-	or	or
7700:201	American Sign Language III		7700:102
3450:222	Analytic Geometry-Calculus II	4	3450:221 with a C or better or equivalent
3460:316	Data Structures	3	3460:210 and 3450:221 or 3450:215 with a C- or better
4450:320	Computer Systems	3	3460:209 or 4450:208, and 3450:208 or 4450:220
Total		16	

2 nd Year	Spring Semester	Credit Hours	Prerequisites
	<i>Natural Science Requirement</i>	3	
	<i>Social Science Requirement</i>	3	
	Intermediate Language II	3	Beginning Language II
	-OR-	or	or
7700:202	American Sign Language IV -AND	3	7700:201
7700:222	Survey of Deaf Culture in America	2	Sign Language students only
3460:307	Internet Systems Programming	3	3460:210 with a C- or better
3460:421	Object Oriented Programming	3	3460:210 with a C- or better
Total		15-17	

3 rd Year Fall Semester			
	<i>Arts and Humanities Requirement</i>	3	
	<i>Natural Science Requirement w/lab</i>	4	
3470:461 or 3470:401	Applied Statistics -OR- Probability and Statistics for Engineers	4 or 2	3450:222 or equivalent 3450:222 or equivalent
3460:480	Software Engineering	3	3460:210 with C- or better
3460:3xx /4xx	Upper level Computer Science Elective	3	
Total		15-17	

3 rd Year Spring Semester			
	<i>Arts and Humanities Requirement</i>	3	
	<i>Social Science Requirement</i>	3	
	<i>Complex Systems Affecting Individuals in Society (CS) Tag</i>	3	
3460:426 or 4450:325	Operating Systems or Operating Systems Concepts	3	3460:210 and 3460:307 or 4450:320 or equivalent with a C- or better or 4450:320 and 3460:210
3460:3xx /4xx	Upper Level Computer Science Elective	3	
Total		15	

4 th Year Fall Semester			
	<i>Arts and Humanities Requirement</i>	3	
	<i>Domestic Diversity (DD) Tag</i>	3	
3460:435	Algorithms	3	3460:316 with a C- or better
3460:3xx /4xx	Upper Level Computer Science Elective	3	
	Upper level General elective	3	
Total		15	

4 th Year Spring Semester			
	<i>Global Diversity (GD) Tag</i>	3	
	<i>Critical Thinking (CT) Tag</i>	3	
3460:490	Senior Seminar in Computer Science	3	At least 30 hours of 3460 (Computer Science) courses
3460:3xx /4xx	Upper Level Computer Science Elective	3	
3460:3xx /4xx	Upper Level Computer Science Elective	3	
Total		15	

	Total Credits for Degree	120 min	
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NOTES:

- a. See General Education 2.0 Guide for applicable course selections. Writing Requirement consists 3300 110 - English Composition I + Workshop or 3300:111 English Composition 1 and 3300:112 English Composition 2. See your adviser for placement. 2020:121 English fulfills the English Composition I and 2020:222 Technical Report Writing fulfills the English Composition II requirement.
- b. Note placement and proficiency in mathematics is essential for continued enrollment in computer science courses. If your placement indicates 3450:145 College Algebra then C- or better is required in this course as well in the following mathematics courses; 3450:149 Pre-Calculus, 3450:221 Analytic Geometry Calculus 1, and 3450:222 Analytic Geometry Calculus 2. 3460:209 Computer Science 1 may be taken concurrently with 3450:208 Discrete Mathematics, 3450:149 Pre-Calculus, and 3450:221 Analytic Geometry Calculus 1
- c. Demonstration of ability to use another language by completion of the second year of a foreign language or sign language is required. See your advisor for placement. Please note that all four semesters must be completed in the SAME language and recommended that you begin your language course as soon as possible.

Chair of the Department of Computer Science and Statistics, Dr. Timothy W O'Neil, 330-972-6492, E-mail: toneil@uakron.edu

Administrative Assistant, Laura Bonko 330-972-8805 Email: lbbonko@uakron.edu

Web Address: <http://www.uakron.edu/computer-science/>