

Computer Science (A.S.)

Curriculum Code: 0532

Semester Hours Required for Graduation: 61

PROGRAM GOALS:

This program prepares students for transfer to complete work for a bachelor's degree in computer science, computer information systems, or related fields.

PROGRAM LEARNING OUTCOMES:

- Identify and demonstrate understanding of computer terminology.
- Recognize and analyze a problem to formulate and implement a solution.
- Demonstrate competency in the use of contemporary technology.
- Write effectively and verbally communicate technically with clients and peers.

ACADEMIC PREPARATION:

It is highly recommended that the following criteria be met to begin this program, and it is REQUIRED by the completion of 24 credits:

12th-grade reading level is required. Placement test scores must indicate readiness to begin EN 101-Composition.

Competency in Pre-Algebra or Pre-Statistics is required.

LIBERAL ARTS REQUIREMENTS

30 Semester Hours

EN 101	Composition	3
EN 102	Composition and Literature	3
HU ELE	Humanities Elective <i>or</i>	
SL ELE	Social Science Elective <i>or</i>	
SC ELE	Science Elective <i>or</i>	
MA ELE	Mathematics Electives	6
MA 111	Pre-Calculus	4
MA ELE	Mathematics Elective	4
HU ELE	Humanities Elective	3
SC ELE	Lab Science Elective	4
SL ELE	Social Science Elective	3

PROGRAM REQUIREMENTS

31 Semester Hours

CE 101	College Experience	1
CS 134	Computer and Informatics Science I	4
CS 154	JAVA Programming	3
CS 256	Computer Science II	4
CS ELE	Computer Science Electives*	6
GN ELE	General Electives	13

Minimum Credits **61**

* Note: It is important to consult with your advisor or transfer counselor to discuss the requirements of the transfer institution prior to registering for class.

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SUGGESTED PROGRAM SEQUENCE

1st Semester

CE 101	College Experience	1
CS 134	Computer and Informatics Science I	4
EN 101	Composition	3
HU ELE	Humanities Elective	3
MA ELE	Math Elective	4
Total		15

2nd Semester

CS 154	Java Programming	3
GN ELE	General Electives	3
EN 102	Composition and Literature	3
MA 111	Pre-Calculus	4
SL ELE	Social Science Elective	3
Total		16

3rd Semester

CS ELE	Computer Science Elective	**3
GN ELE	General Elective	6
HU ELE	Humanities Elective	
	or	
SL ELE	Social Science Elective	
	or	
MA ELE	Mathematics Elective	
	or	
SC ELE	Science Elective	3
SC ELE	Lab Science Elective	4
Total		16

4th Semester

CS 256	Computer Science II	4
CS ELE	Computer Science Elective**	3
GN ELE	General Electives	4
HU ELE	Humanities Elective	
	or	
SC ELE	Science Elective	
	or	
SL ELE	Social Science Elective	
	or	
MA ELE	Mathematics Elective	3
Total		14

**AR 140, AR 205, AR 245, AR 250 and CJ 135 may be used as CS Electives. Students should consult with their advisor prior to the selection of these courses.

Transfer opportunities include, but are not limited to: SUNY Plattsburgh, SUNY Potsdam, Union College, SUNY College of Technology at Utica/Rome, SUNY New Paltz, SUNY Binghamton, SUNY Geneseo, University at Albany-SUNY, The College of St. Rose, Siena College, Marist College, SUNY Oneonta, and Rensselaer Polytechnic Institute.