

Computer Science (A.S.)

Curriculum Code: 0532

Semester Hours Required for Graduation: 62–65

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 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 (readiness to begin EN 101 – Composition). (A score of 80 or higher on the placement exam is required.)

Competency in Elementary Algebra is required. College-level proficiency on Math Placement Examination.

Competency in College Algebra is highly recommended.

LIBERAL ARTS REQUIREMENTS

30–32 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	6-8
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

30 Semester Hours

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

PHYSICAL EDUCATION REQUIREMENTS

2-3 Semester Hours

PE ELE	Physical Education Electives	
	<i>or</i>	
HE ELE	Health Electives	2–3

Grand Total **62–65**

** 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

<i>1st Semester</i>			<i>2nd Semester</i>		
CS 134	Computer and Informatics Science I	4	CS ELE	Computer Science Electives** <i>or</i>	6
EN 101	Composition	3	GN ELE	General Electives	
HU ELE	Humanities Elective	3	EN 102	Composition and Literature	3
MA 111	Pre-Calculus	4	MA ELE	Mathematics Elective	4
PE ELE	Physical Education Electives <i>or</i>		PE ELE	Physical Education Elective <i>or</i>	
HE ELE	Health Elective*	1–3	HE ELE	Health Elective*	1–3
Total		15–17	SL ELE	Social Science Elective	3
			Total		17–19
<i>3rd Semester</i>			<i>4th Semester</i>		
CS ELE	Computer Science Elective **3		CS 154	JAVAProgramming	3
GN ELE	General Electives	6	CS 256	Computer Science II	4
HU ELE	Humanities Elective <i>or</i>		CS ELE	Computer Science Elective** 3	
SL ELE	Social Science Elective <i>or</i>		GN ELE	General Elective	3
MA ELE	Mathematics Elective <i>or</i>		HU ELE	Humanities Elective <i>or</i>	
SC ELE	Science Elective	3–4	SL ELE	Social Science Elective <i>or</i>	
SC ELE	Lab Science Elective	4	MA ELE	Mathematics Elective <i>or</i>	
Total		16–17	Total		16–17

** Either one 3-semester-hour health course or one 3-semester-hour physical education course or two courses of any combination of HE or PE will satisfy the PE requirement.*

***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: SUNY Plattsburgh, SUNY Potsdam, Union College, SUNY College of Technology at Utica/Rome, SUNY New Paltz, SUNY Binghamton, SUNY Geneseo, SUNY Albany, The College of St. Rose, Siena College, Marist College, SUNY Oneonta, Rensselaer Polytechnic Institute.