

SUNY SCHENECTADY
CURRICULUM WORKSHEET

PROGRAM: **COMPUTER SCIENCE (A.S.)**

HEGIS # 5101

Program Code # **79**

Program Entry Date:

Student Name:

Former College(s) Attended:

ID Number:

PROGRAM REQUIREMENTS	CR	SUNY GENERAL EDUCATIONAL CATEGORY	SATISFIES LIBERAL ARTS AND SCIENCE
CIS 133 Programming in JAVA	3		Yes
CIS 134 C++/UNIX	4		
CIS 246 Data Structures	3		
ENG 123 College Composition	3	Communication: Written and Oral; Critical Thinking and Reasoning; Information Literacy	Yes
ENG 124 Literature and Writing	3	Humanities	Yes
FYS 100 First Year Seminar	1		
MAT 180 Calculus I	4	Mathematics and Quantitative Reasoning	Yes
MAT 181 Calculus II	4	Mathematics and Quantitative Reasoning	Yes
MAT 210 Discrete Structures: Logic & Proof	3	Mathematics and Quantitative Reasoning	Yes
MAT 242 Linear Algebra or other MAT Restricted Elective (b)	3-4		Yes
CIS Elective (c)	3		
COM 105 Public Speaking OR other Humanities SUNY General Education Elective	3	Humanities	Yes
Diversity: Equity, Inclusion, and Social Justice SUNY General Education Elective	3	Diversity: Equity, Inclusion, and Social Justice	
General Elective (e)	3-4		
US History OR The Arts OR World Languages SUNY General Education Elective	3	US History and Civic Engagement OR The Arts OR World Languages	
World History SUNY General Education Elective	3	World History and Global Awareness	Yes
MAT/CIS Elective (d)	3-4		
PHY 221 College Physics I OR other Restricted Lab Science Elective (a)	4	Natural Sciences and Scientific Reasoning	Yes
PHY 222 College Physics II OR other Restricted Lab Science Elective (a)	4	Natural Sciences and Scientific Reasoning	Yes
SOC 121 or other Social Science SUNY General Education Elective	3	Social Sciences	Yes
Minimum Credit Hours	63		
		Total Gen Ed. Credits 40	Total Number of Liberal Arts and Sciences Credits:40
		Total # of Gen. Ed Categories 8	

Additional Comments: Please refer to footnotes on reverse side.

Reviewed by _____

Date _____

**COMPUTER SCIENCE
ASSOCIATE IN SCIENCE**

FIRST YEAR

Fall Semester	CR	Spring Semester	CR
CIS 134 C++/UNIX	4	CIS 246 Data Structures	3
ENG 123 College Composition	3	ENG 124 Literature and Writing	3
FYS 100 First Year Seminar	1	MAT 181 Calculus II	4
MAT 180 Calculus I	4	US History OR The Arts OR	3
General Elective (e)	3	World Languages SUNY	
	15-16	General Education Elective	
		Diversity: Equity, Inclusion, and	3
		Social Justice SUNY General	
		Education Elective	16

SECOND YEAR

Fall Semester	CR	Spring Semester	CR
CIS 133 JAVA	3	MAT 210 Discrete Structures: Logic and	3
MAT/CIS Elective (d)	3-4	Proof	
PHY 221 Or Restricted Lab Science	4	PHY 222 Or Restricted Lab Science	4
Elective (a)		Elective (a)	
SOC 121 OR Social Science SUNY General	3	World History & Global	3
Education Elective (e)		Awareness SUNY General	
		Education Elective	
COM 105 Or Humanities Elective	3	MAT 242 OR Mathematics Elective (b)	3-4
	16-17	CIS Elective (c)	3
			16-17

Minimum Credit Hours required for degree: 63

NOTES:

- (a) Restricted Laboratory Science Electives: BIO 141-142, BIO 241, CHM 121-122, PHY 221-222.
- (b) Mathematics Elective: Some institutions require Linear Algebra (MAT 242) to achieve junior status. Students should contact intended transfer institution for mathematics requirements. Other mathematics elective may include MAT 222 or MAT 240.
- (c) Computer Science Electives: CIS 129 (if taken as a prerequisite for CIS 133 and CIS 134), CIS 135, CIS 136, CIS 221, CIS 223, CIS 225, CIS 229, CIS 236, CIS 237, CIS 238, CIS 240, CIS 259.
- (d) Students should carefully review the MAT/CIS requirements of the college to which they plan to transfer before selecting either a MAT or CIS course from those in (b) or (c) above.
- (e) This may be any course with the exception of courses designated in the SUNY Schenectady Catalog as not satisfying A.A. or A.S. degree program requirements. However, students need to consider the transferability of the course to particular colleges. Depending upon math background, students may take MAT 167 Precalculus with Analytic Geometry as a general elective in the first semester as a prerequisite to the Calculus sequence with no loss in course sequence or credits.