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
CIS	134	C++/UNIX	4
ENG	123	College Composition	3
FYS	100	First Year Seminar	1
MAT	180	Calculus I	4
		General Elective (e)	3
			15-16

Spring Semester			CR
CIS	246	Data Structures	3
ENG	124	Literature and Writing	3
MAT	181	Calculus II	4
		US History OR The Arts OR World Languages SUNY General Education Elective	3
		Diversity: Equity, Inclusion, and Social Justice SUNY General Education Elective	3
			16

SECOND YEAR

Fall Semester			CR
CIS	133	JAVA	3
		MAT/CIS Elective (d)	3-4
PHY	221	Or Restricted Lab Science Elective (a)	4
SOC	121	OR Social Science SUNY General Education Elective (e)	3
COM	105	Or Humanities Elective	3
			16-17

Spring Semester			CR
MAT	210	Discrete Structures: Logic and Proof	3
PHY	222	Or Restricted Lab Science Elective (a)	4
		World History & Global Awareness SUNY General Education Elective	3
MAT	242	OR Mathematics Elective (b)	3-4
		CIS Elective (c)	3
			16-17

Minimum Credit Hours required for degree: 63

<u>NOTES:</u>

(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.

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