

**SUNY SCHENECTADY
CURRICULUM WORKSHEET**

PROGRAM: **MATHEMATICS AND SCIENCE (A.S.)**

HEGIS # 5649

SCCC Program Code # **78**

Program Entry Date:

Student Name:

Former College(s) Attended:

ID Number:

PROGRAM REQUIREMENTS	CR	Grade	GE Complete	SUNY GENERAL ED COMPLIANCE POSSIBILITIES - REFER TO TABLE IN ADVISEMENT MANUAL FOR SPECIFIC COURSES
CHM 121 General Chemistry I	4			General Education Natural Sciences
CHM 122 General Chemistry II	4			General Education Natural Sciences
ENG 123 College Composition	3			General Education Communication
ENG 124 Literature and Writing	3			General Education Humanities
FYS 100 First Year Seminar	1			
MAT 180 Calculus I	4			General Education Mathematics
MAT 181 Calculus II	4			General Education Mathematics
PHY 221 College Physics I	4			General Education Natural Sciences
PHY 222 College Physics II	4			General Education Natural Sciences
CIS Elective (a)	3-4			
Arts General Education Elective OR Foreign Language General Education Elective	3			General Education, Arts OR Language
Western Civilization General Education Elective OR Other World Civilization General Education Elective	3			General Education, Western Civilization OR Other World Civilization
Liberal Arts Elective	3-4			
Mathematics Elective (b)	3-4			
Mathematics Elective (b)	3-4			
Math, Lab Science OR CIS Elective (c)	3-5			
Math, Lab Science OR CIS Elective (c)	3-5			
Restricted Elective (d)	3-5			
Social Science General Education Elective OR American History General Education Elective	3			General Education Social Science OR American History
Minimum Credit Hours	61			

Additional Comments: Please refer to the footnotes on the reverse side.

Reviewed by _____

Date _____

**MATHEMATICS AND SCIENCE
ASSOCIATE IN SCIENCE**

FIRST YEAR

Fall Semester	CR	Spring Semester	CR
CHM 121 General Chemistry I	4	CHM 122 General Chemistry II	4
ENG 123 College Composition	3	ENG 124 Literature and Writing	3
FYS 100 First Year Seminar	1	MAT 180 Calculus I	4
	3-4	Arts Gen Ed Elective OR	
	3-4	Foreign Language Gen Ed	3
		Liberal Arts Elective	3-4
OR American History Gen Ed Elective	3		17-18
	17-19		

SECOND YEAR

Fall Semester	CR	Spring Semester	CR
PHY 221 College Physics I	4	PHY 222 College Physics II	4
MAT 181 Calculus II	4	Western Civilization Gen Ed Elec.	
	3-5	OR Other World Civ. Gen Ed Elec	3
Math, Lab Science OR CIS Elective (c)	3-5	Mathematics Elective (b)	3-4
Restricted Elective (d)	3-5	Math, Lab Science OR CIS Elective (c)	3-5
	14-18		13-16

Minimum Credit Hours required for degree: 61

Advisement Notes:

Humanities and Social Science electives should be chosen to supplement General Education Principles. Electives should be chosen based upon concentration, transfer school prerequisite, and interest. Advisor should be consulted.

- (a) **CIS Electives:** CIS 129 or higher.
- (b) **Mathematics electives:** MAT 147, MAT 167 (if taken as a prerequisite to MAT 180), MAT 210, MAT 222, MAT 240, MAT 242.
- (c) **Math or Lab Science Electives:** Any of (b) above, BIO 141-142, BIO 203, BIO 241, BIO 261, CHM 228-229, GEO 143, GEO 145, PHY 223.
- (d) **Restricted Electives:** Any of (a), (b), (c) above.
 - 1) An advanced course taken via cross-registration may be approved in any of the four elective categories.
 - 2) Electives should be chosen in conjunction with the student's academic advisor, based upon major/program of study, transfer/articulation, and interest. Though students may develop an individualized sequence following program guidelines, the following course sequences are RECOMMENDED to facilitate ease of transfer:

**Students interested in pursuing physics should take College Physics I & II and Calculus I & II in the first year and General Chemistry I & II in the second year.

Chemistry

CHM 228
CHM 229
MAT 222
MAT 240

Engineering

MAT 222
MAT 240
CIS 129, 133, 134 or 246

Mathematics

MAT 210
MAT 222
MAT 240
MAT 242

Physics**

MAT 222, 240, 242
PHY 223
CIS Elective