

Degree:

Computer Science AS (CMPS)

Effective Date: 3-05-08

		SEMESTER								
CR	COURSE	CA#	TR							
1-4	HRD 100A, 100 or 110									
3	ENG 101 or ENG 100A & B									
3	Choose one course from: ENG 102 - 110									
4	MAT 131									
3-4	LAB SCIENCE - PHY 111 or EGR 105 recommended									
3	MATH or SCIENCE COURSE MAT 132, PHY 112 or EGR 106 recommended									
1	PHYSICAL EDUCATION Note: PED 105, 172, 210, 211, & 212, do not fulfill this requirement									
1	PHYSICAL EDUCATION Note: PED 105, 172, 210, 211, & 212, do not fulfill this requirement									
3	HISTORY (HIS 100,101 or 102)									
3	HISTORY (HIS 103 or HIS 104)									
3	SUNY Gen Ed Social Science (ANT, PSY or SOC)									
3	SUNY Gen Ed Humanities									
3	Liberal Arts Elective									
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3	CIS 143 (Prereq. Required)									
3	CIS 144 (Prereq. Required.)									
3	CIS 150 (Prereq. Required)									
4	CIS 243 (Prereq. Required)									
3	CIS 244 (Prereq. Required) (Spr Only)									
3	MAT 129									
3-4	Choose one course from the following: CIS 131,151,222,237, MAT 132 or 231, 220, 223 (Fall Only)									
3	Elective - CIS 125 recommended									
3	Elective - CIS 231 recommended									
65	Minimum credits required for graduation									

Computer Science AS Degree Tips Sheet

The CS AS degree is designed to provide the first two years of a rigorous four year program in Computer Science. Students who are interested in a two year career training program should consider one of the IT AAS or BITM AAS degrees instead.

- Prerequisites for all required Math courses and Computer Science courses are enforced.
- A student that enters the program without the necessary math prerequisite (MAT 108 or (high school) Math B or Course III) needs to take the necessary math prerequisite before they even consider taking CIS 143 (the 1st course in a four course (semester) sequence). These students should be encouraged to take CIS122 (can be used in the degree sheet as a free elective) while they are catching up on their math prerequisites.
- The CS degree requires math up through Calc I (MAT 131) but most transfer schools require up through at least Calc II and some require up through Calc III. CS majors should check as soon as possible with their transfer school about their Calculus requirement. RPI transfers need to take up through Calc III which will transfer into RPI as two calculus courses and meet their calculus requirement. **It is highly recommended that students complete their Calculus requirement at ACC rather than doing some of it here and the remainder at their transfer institution.**
- Many CS programs at transfer schools require two semesters of Physics. Students should check with their transfer schools. RPI transfers should take EGR 105 and EGR 106 to satisfy RPI's physics requirement.
- CIS 243 is the most rigorous course in the CS major. Since the assignments in that course require **LARGE** amounts of time, when registering for 243, students should plan their schedules with that in mind.
- The prerequisite for CIS244 is CIS 243 or permission of the instructor. Since this course is a spring only course, some students may find themselves taking CIS243 (the 3rd course in a sequence of 4) in the spring and then needing to wait until the following spring to take CIS244 (the 4th course in the sequence). To take both courses in the same spring semester, students must get permission from the 244 instructor, which is typically granted as long as the student has received at least a B in CIS 144. A student that falls into that category should also have taken CIS150 before the semester that he/she is forced to take 243 and 244 together.

CIS 221 which is currently in the "Choose 1 course from the following..." area of the degree major requirements, will most likely no longer be offered.

Notes on Computer Science AS

❖ **Financial Aid Recipients:** You **must** choose courses that are within your degree program. Visit the Advisement Center in Warren Hall if you have any questions.

Prerequisites for:

CIS 143 - MAT 108 or Course II	MAT 132 - MAT 131
CIS 144 - CIS 143 Coreq. - MAT 113	MAT 231 - MAT 132
CIS 150 - CIS 143 or permission of instructor	MAT 220 - MAT 123
CIS 243 - CIS 144 & MAT 113	MAT 223 - MAT 113 or MAT 123
CIS 244 - CIS 243 (or CIS 144 and permission of instructor)	CIS 221- 3 credit programming course
MAT 131 - MAT 123 or equivalent	CIS 131 - CIS 111
	CIS 237 - CIS 127, 128, 143, 221 or permission of instructor

Definition of Terms:

Social Science - ANT, ECO, HIS, HED103, PSC, PSY, and SOC.

Math & Science - ANT103, AST, BIO, CHM, GEO, MAT, PHY, EGR 105, 106, & 204, and SCI.

Humanities - ENG 200 level, ART, ASL, FRN, GRM, INT, MUS, PHI, RUS, SPA, SPH, and THR.

Liberal Arts - Any of the above courses and COM 183.

Electives - Any credit course offered by the College.

Physical Education - Two credits are required. PED 105, 172, 210, 211, and 212 are NOT activity courses.

RECOMMENDED SEQUENCES

FIRST YEAR

First Semester

1-4	HRD 100A, 100, or 110
3	ENG 101 or 100A & B
3	MAT 129
3	CIS 143
3	SUNY Gen Ed Soc Science (ANT, PSY, SOC)
3	Liberal Arts Elective
1	PED

Second Semester

3	ENG 102 - 110
3	MAT Liberal Arts Elective
3	CIS 144
3	CIS 150
3	HIS 100, 101 or 102
1	PED

SECOND YEAR

Third Semester

3	CIS 243
4	MAT 131
3-4	Lab Science Course (EGR 105 or PHY 111)
3	SUNY Gen Ed Humanities
3	HIS 103 or HIS 104

Fourth Semester

3	CIS 244
3	CIS or MAT Elective
3	Math or Science (EGR 106, MAT 132 or PHY 112)
6	Electives

Recommended Free Electives: Any course from the group on the reverse side of the page listed under: Choose one course from the following”, and Office Productivity Software (CIS 125), Intro to Internet Development (CIS 122), or Systems Analysis & Design (CIS 231).

Competency Areas: (See the SUNY Gen Ed Requirements per current catalog)

# 1 Mathematics	# 6 Other World Civs
# 2 Natural Science	# 7 Humanities
# 3 Social Science	# 8 The Arts
# 4 American History	# 9 Foreign Language
# 5 Western Civ	# 10 Basic Communication