

Computer Science AS (CMPS)
Catalog: 2025-2026 Effective Date: 9/1/2024

CR	COURSE	COURSE TITLE	SUNY GEN ED
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE	
3	ENG 101	<i>Introduction to College Writing</i>	GCWO
3	ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110	<i>Writing II</i>	GCWO
4	MAT 131	<i>Calculus I</i>	GMAT
3-4	SUNY GEN ED Natural Sciences (and Scientific Reasoning) lab science	EGR 105 <i>Engineering Physics I</i> or PHY 111 <i>General Physics I</i> recommended	GNSL
3	SUNY GEN ED Mathematics (and Quantitative Reasoning) or SUNY GEN ED Natural Sciences (and Scientific Reasoning)	MAT 132 <i>Calculus II</i> recommended	GMAT GNSL
6	Choose 2 GEN ED categories from: SUNY GEN ED World History and Global Awareness SUNY GEN ED US History and Civic Engagement SUNY GEN ED Social Sciences		GGLB GUSC GSSC
3	SUNY GEN ED The Arts, SUNY GEN ED World Languages or SUNY GEN ED Humanities		GART GWRL GHUM
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice		GDVR
3	CIS 143 (Prereq Required)	<i>Introduction to Programming</i>	
3	CIS 144 (Prereq Required.)	<i>Intermediate Programming in a Windows Environment</i>	
3	CIS 150 (Prereq Required)	<i>Topics in Computing</i>	
4	CIS 243 (Spring Only - Prereq Required)	<i>Data Structures and Objects in C++</i>	
3	CIS 244 (Spring only - Prereq Required)	<i>Computer Systems and Programming</i>	
3	MAT 129	<i>Discrete Mathematics</i>	GMAT
3-4	Choose 1 (Prereq Required) from: EGR 183 (Spring only – even years), CIS 151 (Fall only), CIS 237 (Spring only), MAT 132 or MAT 231 (Fall only)	COMPUTER SCIENCE or MATHEMATICS ELECTIVE	
3	Choose 1 from: CIS 120, CIS 131, CIS 135 (Spring only), CIS 278 or EGR 120	TECS ELECTIVE	
6	Liberal Arts and Sciences		
4	Electives		
64	Minimum credits required for graduation		

Note: Please review the back of this form for additional information.

Notes on Computer Science AS (CMPS)

COURSE	PREREQUISITES	COURSE	PREREQUISITES
CIS 143	MAT 108 (or equivalent) or CIS 122		
CIS 144	CIS 140 with C or better <u>or</u> CIS 143 with C or better	EGR 183	MAT 108 with C or better
CIS 150	CIS 140 or CIS 143	MAT 129	MAT 108 with C or better within 4 years
CIS 151	CIS 140 or CIS 143	MAT 131	MAT 121 with C or better within 4 years <u>and</u> MAT 125 with C or better within 4 years or equivalent
CIS 237	CIS 140 or CIS 143 with C or better	MAT 132	MAT 131 with C or better within 4 years
CIS 243	CIS 144 (with C or better) <u>and</u> MAT 129	MAT 220	MAT 131 with C or better within 4 years
CIS 244	CIS 243 (Prereq or Coreq)	MAT 223	MAT 121 with C or better within 4 years
CIS 278	Permission of instructor; recommended for final semester	MAT 231	MAT 132 with C or better within 4 years

FIRST YEAR SEQUENCE

Credits	First Semester
1-2	HRD 100, HRD 100A or HRD 110
3	ENG 101
3	MAT 129
3	CIS 143
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice
3	Liberal Arts and Sciences
Credits	Second Semester
3	ENG 102 – ENG 110
3	CIS 144
3	CIS 150
3	SUNY GEN ED US History and Civic Engagement, SUNY GEN ED World History and Global Awareness or SUNY GEN ED Social Sciences
3	TECS Elective (See Note 1)

SECOND YEAR SEQUENCE

Credits	Third Semester
3-4	Computer Science or Mathematics Elective (See Note 2)
4	MAT 131
3-4	SUNY GEN ED Natural Sciences (and Scientific Reasoning) lab science (EGR 105 or PHY 111 recommended)
3	SUNY GEN ED The Arts, SUNY GEN ED World Languages or SUNY GEN ED Humanities
3	SUNY GEN ED US History and Civic Engagement, SUNY GEN ED World History and Global Awareness or SUNY GEN ED Social Sciences
Credits	Fourth Semester
4	CIS 243
3	CIS 244
3	SUNY GEN ED Mathematics (and Quantitative Reasoning) or SUNY GEN ED Natural Sciences (and Scientific Reasoning) – By advisement
3	Liberal Arts and Sciences
4	Electives

DEGREE NOTES:

- TECS Electives: CIS 120, CIS 131, CIS 135, CIS 278 or EGR 120
- Computer Science and Mathematics Electives: CIS 151, CIS 237, EGR 183 (Spring only – even years), MAT 132 or MAT 231 (Fall only)

GEN ED CODE	SUNY GEN ED CATEGORY	GEN ED CODE	SUNY GEN ED CATEGORY
GMAT	Mathematics (and Quantitative Reasoning)	GDVR	Diversity: Equity, Inclusion and Social Justice
GNSC/L	Natural Sciences (and Scientific Reasoning)	GHUM	Humanities
GSSC	Social Sciences	GART	The Arts
GUSC	US History and Civic Engagement	GWRL	World Languages
GGLB	World History and Global Awareness	GCWO	Communication – Written and Oral

Computer Science AS Degree Tips Sheet

The Computer Science AS degree (CMPS) 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 the Information Technology: Cybersecurity AAS or Information Technology: Computer Networking 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 appropriate placement test score) needs to take the necessary math prerequisite before they consider taking CIS 143 (the 1st course in a four course (semester) sequence). These students should be encouraged to take CIS 140 (can be used in the degree sheet as a free elective) while they are catching up on their math prerequisites.
- The CMPS degree requires math up through Calculus I (MAT 131) but most transfer schools require up through at least Calculus II and some require up through Calculus III. CMPS majors should check as soon as possible with their transfer school about their Calculus requirement. RPI transfers need to take up through Calculus 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 SUNY Adirondack rather than doing some of it here and the remainder at their transfer institution.**
- Many computer science 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.