Computer Science AS (CMPS)


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

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 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 $1^{\text {st }}$ course in a four course (semester) sequence). These students should be encouraged to take CIS 122 (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.
- CIS 243 is the most rigorous course in the CMPS major. Since the assignments in that course require LARGE amounts of time, when registering for CIS 243, students should plan their schedules with that in mind.
- The prerequisite for CIS 244 is CIS 243 or permission of instructor. Since this course is a spring only course, some students may find themselves taking CIS 243 (the $3^{\text {rd }}$ course in a sequence of 4 ) in the spring and then needing to wait until the following spring to take CIS 244 (the $4^{\text {th }}$ course in the sequence). To take both courses in the same spring semester, students must get permission from the CIS 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 CIS 150 before the semester that he/she is forced to take CIS 243 and CIS 244 together.

| CIS 123 | CIS 120 (or as co-requisite) | EGR 183 | MAT 108 with C or better |
| :---: | :---: | :---: | :---: |
| CIS 143 | MAT 108 (or equivalent) or CIS 122 | MAT 129 | MAT 108 with C or better |
| CIS 144 | CIS 140 with C or better or CIS 143 with C or better | MAT 131 | MAT 121 and MAT 125 (with C or better) |
| CIS 150 | CIS 140 or CIS 143 | MAT 132 | MAT 131 with C or better |
| CIS 151 | CIS 143 or CIS 122 | MAT 220 | MAT 131 with C or better |
| CIS 211 | Any 3 credit CIS course and Any credit bearing MAT course | MAT 223 | MAT 121 with C or better |
| CIS 222 | CIS 144 | MAT 231 | MAT 132 with C or better |
| CIS 237 | CIS 144 |  |  |
| CIS 243 | CIS 144 (with C or better) and MAT 129 |  |  |
| CIS 244 | CIS 243 (or CIS 144 and permission of instructor) |  |  |


| * RECOMMENDED SEQUENCE: |  |  |  |
| :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |
| First Semester |  | Second Semester |  |
| 1-2 | HRD 100, HRD 100A or HRD 110 |  |  |
| 3 | ENG 101 | 3 | ENG 102 - ENG 110 |
| 3 | MAT 129 | 3 | CIS 144 |
| 3 | CIS 143 | 3 | CIS 150 |
| 3 | SUNY GEN ED Social Science | 3 | SUNY GEN ED Western Civilization |
| 3 | Liberal Arts and Sciences | 3 | Computer Technology Elective (See Note 1) |
|  |  |  |  |
| SECOND YEAR |  |  |  |
| Third Semester |  | Fourth Semester |  |
| 4 | CIS 243 | 3 | CIS 244 |
| 4 | MAT 131 | 3-4 | MECS Elective (See Note 2) |
| 3-4 | SUNY GEN ED Natural Science lab science (EGR 105 or PHY 111 recommended) | 3 | SUNY GEN ED Mathematics or SUNY GEN ED Natural Science |
| 3 | SUNY GEN ED The Arts, SUNY GEN ED Foreign Language or SUNY GEN ED Humanities | 3 | Liberal Arts and Sciences |
| 3 | SUNY GEN ED American History | 4 | Electives |
| NOTES: |  |  |  |
| 1. Computer Technology Electives are: CIS 120, CIS 123, CIS 131 or CIS 211 <br> 2. MECS Electives (with pre-requisites required) are: EGR 183, CIS 151, CIS 237, MAT 132 or MAT 231 |  |  |  |

* DEFINITION OF COURSE REQUIREMENTS: See http://catalog.sunyacc.edu/academics/degreerequirements
* FINANCIAL AID RECIPIENTS: A student must choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.
* SUNY GEN ED KNOWLEDGE AREAS: See http://catalog.sunyacc.edu/academics/generaleducation

| * | Mathematics (GEMA) | * | Other World Civilization (GEOC) |
| :---: | :---: | :---: | :---: |
| * | Natural Sciences (GENS) | * | Humanities (GEHU) |
| * | Social Sciences (GESS) | * | The Arts (GETA) |
| * | American History (GEAH) | * | Foreign Languages (GEFL) |
| * | Western Civilization (GEWC) | $\stackrel{ }{*}$ | Basic Communication (GEBC) |

