

| SUNY Adirondack Computer Science A.S. | | | | | University at Albany Computer Science B.S. (Combined Major/Minor) | | | | |
|--|--|-------------|------------------|--|--|---|-------------|------------------|------------------|
| Course # | Course Title | SUNY Gen Ed | Major or Pathway | Credits Granted | Course # | Equivalent Course Title | SUNY Gen Ed | Major or Pathway | Credits Accepted |
| CIS 143 | Introduction to Programming | | X | 3 | ICSI 201 | Introduction to Computer Science | | X | 3 |
| CIS 144 | Intermediate Programming in a Windows Environment | | | 3 | ICSI 010 | Computer Science Elective | | | 3 |
| CIS 150 | Topics in Computing | | | 3 | ICSI 010 | Computer Science Elective | | | 3 |
| CIS 243 | Data Structures and Objects in C++ | | | 4 | ICSI 010 | Computer Science Elective | | | 4 |
| CIS 244 | Computer Systems and Programming | | X | 3 | ICSI 333 | Programming at the Hardware Software Interface | | X | 3 |
| EGR 105 | Engineering Physics I (Suggested SUNY Gen. Ed. Natural Science with Lab) | X | X | 4 | APHY 140/145 | Physics I: Mechanics/Lab | X | X | 4 |
| EGR 106 | Engineering Physics II (Suggested Elective) | X | X | 4 | APHY 150/155 | Physics II: Electromagnetism/Lab | X | X | 4 |
| ENG 101 | Introduction to College Writing | X | | 3 | AENG 010Z | English Elective | X | | 3 |
| MAT 129 | Discrete Mathematics | | | 3 | AMAT 010 | Mathematics Elective | | | 3 |
| MAT 131 | Calculus I | X | X | 4 | AMAT 112 | Calculus I | X | X | 4 |
| MAT 132 | Calculus II (Suggested SUNY Gen. Ed. Mathematics) | X | X | 4 | AMAT 113 | Calculus II | X | X | 4 |
| MAT 220 | Linear Algebra (Computer Science or Mathematics Elective) | | X | 3 | AMAT 220 | Linear Algebra | | X | 3 |
| | SUNY Gen. Ed. American History | X | | 3 | | SUNY Gen. Ed. American History | X | | 3 |
| | SUNY Gen. Ed. The Arts, Foreign Language or Humanities | X | | 3 | | SUNY Gen. Ed. The Arts, Foreign Language or Humanities | X | | 3 |
| | SUNY Gen. Ed. Basic Communication | X | | 3 | | SUNY Gen. Ed. Basic Communication | X | | 3 |
| | SUNY Gen. Ed. Social Science | X | | 3 | | SUNY Gen. Ed. Social Science | X | | 3 |
| | SUNY Gen. Ed. Western Civilization | X | | 3 | | SUNY Gen. Ed. Western Civilization | X | | 3 |
| | Health and Wellness Elective | | | 2 | | General Elective Credits | | | 2 |
| | Liberal Arts Electives (at least 2 credits must be from SUNY Gen. Ed. Areas) | | | 6 | | Liberal Arts Electives | | | 6 |
| HRD 110 | Freshmen Experience* | | | 1 | | No Credit Transferred | | | 0 |
| | | | | | Additional Required and Elective Courses for the Major at UAlbany | | | | |
| | | | | | | Challenges of the 21 st Century | X | X | 3 |
| | | | | | ICSI 210 | Discrete Structures | | X | 4 |
| | | | | | ICSI 300Z | Social, Security, and Privacy Implications of Computing | | X | 3 |
| | | | | | ICSI 310 | Data Structures | | X | 3 |
| | | | | | ICSI 311 | Principles of Programming Languages | | X | 3 |
| | | | | | ICSI 402 | Systems Programming | | X | 3 |
| | | | | | ICSI 403 | Algorithms and Data Structures | | X | 3 |
| | | | | | ICSI 404 | Computer Organization | | X | 3 |
| | | | | | ICSI 409 | Automata and Formal Languages | | X | 3 |
| | | | | | AMAT 214** | Calculus of Several Variables | | X | 3 |
| | | | | | AMAT 367 | Discrete Probability | | X | 3 |
| | | | | | | Science Sequence*** | | X | 6 |
| | | | | | | Computer Science Major Elective**** | | X | 9 |
| | | | | | | Elective credits required for Degree Completion | | X | 7 |
| | | | | Total Credits Eligible for Transfer | 64 | | | | |
| | | | | | | Total Transfer Credits Applied to Program | | | 64 |
| | | | | | | Total Credits Required after Transfer | | | 56 |
| | | | | | | Total Credits Required for Degree | | | 120 |

*The University at Albany does not currently accept transfer credit for Freshmen Experience courses.

**Students may take AMAT 214 or 3 credits or any AMAT course numbered 300-level or above.

*** Select an approved pair: ABIO 120 and 121; APHY 240 and 250; APHY 353, APHY 415, and 454 (only select two)

****6-9 credits must be ICSI 300-470 or 500-550. 0-3 credits may be AHPY 353 or APHY 454 in digital hardware, or APHI 432 in advanced logic.

A transfer student admitted to the University at Albany who has completed his/her A.A. or A.S. degree will be given credit for meeting SUNY's General Education requirements.