Table A: Applied Computer Technology (APLCMP-AS) AY 2024-2025  
*Calendar Type:* Semester

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| **Term: Fall 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAR-010 Freshman Seminar | 0 |  | 0 |  |  |  |
| General Education - First Year Writing: UWRT-150 FYW: Writing Seminar or ISTE-110 FYW: Ethics in Computing (WI) | 3 | 3 |  |  |  |  |
| General Education – Elective: NMTH-275 Advanced Mathematics | 3 | 3 |  |  |  | NMTH-212 or equivalent with a C- or better or a math placement score greater than or equal to 40 |
| NACA-172 Website Development(2) | 3 |  | 3 |  |  |  |
| General Education – Scientific Principles Perspective(3) | 3 | 3 |  |  |  |  |
| General Education – Elective: NACA-120 Survey of Computational Problem Analysis I(2) | 4 | 4 |  |  |  | Enrollment in APLCMP-AAS, APLCMP-AS, or MAPDD-AAS |
| **Term Credit Total:** | 16 | 13 | 3 | 0 |  |  |

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| **Term: Spring 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| CIT(4): General Education – Elective: MATH-131 Discrete Mathematics  or  HCC(5): General Education – Elective: STAT-145 Introduction to Statistics I | 4  3 | 4  3 |  |  |  | MATH-131: MATH-101, MATH-111, NMTH-260, NMTH-272, or NMTH-275 or a Math Placement Exam score of at least 35  STAT-145: Any 100 level MATH course, or NMTH-260 or NMTH-272 or NMTH-275 or (NMTH-250 with a C- or better) or a Math Placement Exam score of at least 35 |
| NACA-121 Survey of Computational Problem Analysis II(2) | 4 |  | 4 |  |  | C or better in NACA-120 or NMAD-180 |
| CIT(4): NSSA-102 Computer Systems Concepts  or  HCC(5): NMAD-155 Survey of Emerging Visual Design(2) | 3  3 |  | 3  3 |  |  |  |
| CIT(4): General Education – Artistic Perspective  or  HCC(5): PSYC-101 Introduction to Psychology | 3  3 | 3 | 3 |  |  |  |
| **Term Credit Total:** | 14(4)  13(5) | 7(4)  3(5) | 7(4)  10(5) | 0 |  |  |

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| **Term: Summer 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| None |  |  |  |  |  |  |
| **Term Credit Total:** | 0 | 0 | 0 | 0 |  |  |

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| **Term: Fall 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| GCIS-124 Software Development and Problem Solving II | 4 |  | 4 |  |  | C- or better in SWEN-123 or CSEC-123 or GCIS-123 or equivalent course |
| ISTE-240 Web & Mobile II | 3 |  | 3 |  |  | (ISTE-120 or CSCI-140 or CSCI-141 or NACA-161 or IGME-105 or IGME-101 or NMAD-180 or GCIS-123) and (ISTE-140 or NACA-172 or IGME-230 or IGME-235) or equivalent course |
| CIT(4): CSEC-102 Information Assurance and Security  or  HCC(5): ISTE-262 Foundations of Human Centered Computing | 3  3 |  | 3  3 |  |  | CSEC-102: None  ISTE-262: ISTE-140 or IGME-230 or NACA-172 or equivalent course |
| CIT(4): General Education – Ethical Perspective  or  HCC(5): General Education – Elective: STAT-146 Introduction to Statistics II | 3  4 | 3  4 |  |  |  | STAT-146: STAT-145 or equivalent course |
| General Education – Social Perspective | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16(4)  17(5) | 6(4)  7(5) | 10(4)  10(5) | 0 |  |  |

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| **Term: Spring 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| CIT(4): General Education – Elective: MATH-161 Applied Calculus  or  HCC(5): General Education – Ethical Perspective | 4  3 | 4  3 |  |  |  | MATH-161: C- or better in MATH-101, MATH-111, MATH-131, NMTH-260, NMTH-272, or NMTH-275 or Math Placement Exam score greater than or equal to 45 |
| CIT(4): ISTE-230 Introduction to Database and Data Modeling  or  HCC(5): PSYC-223 Cognitive Psychology | 3  3 |  | 3  3 |  |  | ISTE-230: ISTE-120 or ISTE-200 or IGME-101 or IGME-105 or CSCI-140 or CSCI-142 or NACA-161 or NMAD-180 or BIOL-135 or GCIS-123 equivalent course  PSYC-223: PSYC-101 or PSYC-101H or completion of one (1) 200 level PSYC course |
| CIT(4): NSSA-220 Task Automation Using Interpretive Languages  or  HCC(5): ISTE-252 Foundations of Mobile Design | 3  3 |  | 3  3 |  |  | NSSA-220: GCIS-124 or ISTE-121 or ISTE -200 or CSCI-142 or CSCI-140 or CSCI-242 or equivalent course For ISTE-222: ISTE-121  ISTE-252: ISTE-240 or IGME-330 or equivalent course |
| General Education – Global Perspective | 3 | 3 |  |  |  |  |
| CIT(4): NSSA-241 Introduction to Routing and Switching  or  HCC(5): General Education – Artistic Perspective | 3  3 | 3 | 3 |  |  | NSSA-241: NSSA-102 or CSEC-101 or CSEC-140 or NACT-151 or CSCI-250 or equivalent courses  ISTE-121 |
| **Term Credit Total:** | 16(4)15(5) | 7(4)9(5) | 9(4)  6(5) | 0 |  |  |

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|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **62**(4)  **61**(5) | **33**(4)  **32**(5) | **29**(4)  **29**(5) | **0** |

***Notes:***

1. All students pursuing an Associate’s degree are also required to complete one Wellness course.
2. Per Articulation Agreement: NACA-120 and NACA-121 are equivalent to GCIS-123; NACA-172 is equivalent to ISTE-140; NMAD-155 is equivalent to NMDE-111.
3. Students pursuing the HCC concentration are encouraged to select a 200-level NSCI course that is designated as both a Scientific Principles Perspective and as a Natural Science Inquiry Perspective so that, for the bachelor’s degree, this science course will satisfy the Natural Science Inquiry requirement and PSYC-101 will serve as the prescribed Scientific Principles Perspective course. Students who do not take such a dual-designated science course will be able to use it as a general education elective or as an open elective in the B.S. degree and will have to take a Natural Science Inquiry course during the B.S. degree.
4. Computing and Information Technology (CIT) Concentration
5. Human-Centered Computing (HCC) Concentration

**Change Log**

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| **Effective Term** | **Curriculum Modification(s)** |
| 2241 | Removal of Web and Mobile Computing (WMC) concentration; replacement of NACA-160, NACA-161, NMDE-111, ISTE-121, and ISTE-190 with NACA-120, NACA-121, NMAD-155, GCIS-124, and CSEC-102, respectively; removal of PSYC-250. All modifications submitted to and approved by NYSED. |
| 2221 | 11/18/21ms/mal(Clerical-update COS mat pre-reqs) |
| 2211 | New addition to the table |
| Older | 4-3-13ssl, 4-17-17del, 2-5-18fxk, 9-17-18fxk(Wellness added) |