Table A: Applied Computer Technology (APLCMP-AS) AY 2021-2022  
*Calendar Type:* Semester

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: Fall 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAR-010 Freshman Seminar | 0 |  | 0 |  |  |  |
| General Education – Elective§ | 3 | 3 |  |  |  |  |
| General Education – Elective: NMTH-275 Advanced Mathematics | 3 | 3 |  |  |  | NMTH-212 with a C or better, or appropriate placement score |
| NACA-172 Website Development# | 3 |  | 3 |  |  |  |
| CIT & WMC Concentrations (\* or \*\*): General Education – Scientific Principles Perspective  or  HCC Concentration\*\*\*: General Education – Scientific Principles Perspective: PSYC-101 Introduction to Psychology | 3 | 3 |  |  |  |  |
| NACA-160 Programming Fundamentals I# | 3 |  | 3 |  |  |  |
| **Term Credit Total:** | 15 | 9 | 6 | 0 |  |  |

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| **Term: Spring 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| General Education - First Year Writing: UWRT-150 FYW: Writing Seminar or ISTE-110 FYW: Ethics in Computing (WI) | 3 | 3 |  |  |  |  |
| CIT & WMC Concentrations (\*, \*\*): General Education – Elective: MATH-131 Discrete Mathematics  or  HCC Concentration (\*\*\*): General Education – Elective: STAT-145 Introduction to Statistics I | 4  3 | 4  3 |  |  |  | C or better in MATH-101, or score of at least 55% on the RIT Mathematics Placement Exam |
| NACA-161 Programming Fundamentals II# | 3 |  | 3 |  |  | NACA-160 |
| CIT Concentration (\*): NSSA-102 Computer Systems Concepts  or  WMC & HCC Concentrations (\*\* or \*\*\*): NMDE-111 New Media Design Digital Survey 1 | 3 |  | 3 |  |  |  |
| CIT & WMC Concentrations (\*, \*\*): General Education – Artistic Perspective  or  HCC Concentration (\*\*\*): PSYC-223 Cognitive Psychology | 3  3 | 3 | 3 |  |  |  |
| **Term Credit Total:** | 16/16/15 | 10/10/6 | 6/6/9 | 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)** |
| ISTE-121 Computational Problem Solving in the Information Domain II | 4 |  | 4 |  |  | ISTE-120 or equivalent |
| ISTE-240 Web & Mobile II | 3 |  | 3 |  |  | ISTE 120 and ISTE-140 or equivalent |
| CIT Concentration (\*): ISTE-190 Foundations of Modern Information Processing  or  WMC Concentration (\*\*): ISTE-260 Designing the User Experience  or  HCC Concentration (\*\*\*): ISTE-262 Foundations of Human Centered Computing | 3  3  3 |  | 3  3  3 |  |  | None  ISTE-140  ISTE-120, ISTE-240 and NMDE-111 or equivalent course |
| CIT and WMC Concentrations (\*, \*\*): General Education – Ethical Perspective  or  HCC Concentration: General Education – Elective: STAT-146 Introduction to Statistics II | 3  4 | 3  4 |  |  |  |  |
| General Education – Social Perspective | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 16/  16/  17 | 6/  6/  7 | 10 | 0 |  |  |

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| **Term: Spring 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| CIT & WMC Concentrations (\*, \*\*): General Education – Elective: MATH-161 Applied Calculus  or  HCC Concentration (\*\*\*): General Education – Ethical Perspective | 4  3 | 4  3 |  |  |  | C- or better in MATH-101, 111 or 131, or ALEKS MPE >=60 |
| CIT & WMC Concentrations (\*, \*\*): ISTE-230 Introduction to Database and Data Modeling  or  HCC Concentration (\*\*\*): PSYC-250 Research Methods I | 3  3 |  | 3  3 |  |  | ISTE-120 or equivalent  PSYC-101 and STAT-145 |
| CIT Concentration (\*): NSSA-220 Task Automation Using Interpretive Languages  or  WMC Concentration (\*\*): ISTE-222 Computational Problem Solving in the Information Technology Domain III  or  HCC Concentration (\*\*\*): ISTE-252 Foundations of Mobile Design | 3  3  3 |  | 3  3  3 |  |  | ISTE-121  ISTE-121  ISTE-240 |
| General Education – Global Perspective | 3 | 3 |  |  |  |  |
| CIT Concentration (\*): NSSA-241 Introduction to Routing and Switching  or  WMC Concentration (\*\*): NSSA-290 Networking Essentials For Developers  or  HCC Concentration (\*\*\*): General Education – Artistic Perspective | 3  3  3 | 3 | 3  3 |  |  | NSSA-102  ISTE-121 |
| **Term Credit Total:** | 16/  16/  15 | 7/  7/  9 | 9/  9/  6 | 0 |  |  |

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| --- | --- | --- | --- | --- |
|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **63/63/62** | **32/32/31** | **31** | **0** |

***Notes:***

1. All students pursuing an Associate’s degree are also required to complete one Wellness course.

***Tracking Information:***

\*Computing and Information Technology (CIT) Concentration

\*\* Web & Mobile Computing (WMC) Concentration

\*\*\* Human-Centered Computing (HCC) Concentration

^NAIS-130 Raster and Vector Graphics AS/BS Section (only) may be substituted for NMDE-111

^^Tallies shown in sequence CIT / WMC / HCC

#Per Articulation Agreement: NACA-160 and NACA-161 are equivalent to ISTE-120; NACA-172 is equivalent to ISTE-140

§ This program includes one unspecified General Education – Elective course. Students may need to take UWRT-100 Critical Reading & Writing, depending on placement.

NOTE: Effective as of academic year 2018-2019, the web and mobile computing concentration in the applied computer technology AS program will not be offered. Students interested in a bachelor’s degree in web and mobile computing should begin their studies through enrollment in the mobile application development AAS program.

Revision Log:

Table 1a: 4-3-13ssl, 4-17-17del, 2-5-18fxk, 9-17-18fxk(Wellness added)

Table A (starting AY20-21)