Table A: Applied Computer Technology (APLCMP-AS) AY 2023-2024
*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 – Elective§  | 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# | 3 |  | 3 |  |  |  |
| CIT & WMC Concentrations (\* or \*\*): General Education – Scientific Principles PerspectiveorHCC 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 MathematicsorHCC Concentration (\*\*\*): General Education – Elective: STAT-145 Introduction to Statistics I | 43 | 43 |  |  |  | MATH-131: MATH-101, MATH-111, NMTH-260, NMTH-272, or NMTH-275 or a Math Placement Exam score of at least 35STAT-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-161 Programming Fundamentals II# | 3 |  | 3 |  |  | NACA-160 |
| CIT Concentration (\*): NSSA-102 Computer Systems ConceptsorWMC & HCC Concentrations (\*\* or \*\*\*): NMDE-111 New Media Design Digital Survey 1 | 3 |  | 3 |  |  |  |
| CIT & WMC Concentrations (\*, \*\*): General Education – Artistic Perspective orHCC Concentration (\*\*\*): PSYC-223 Cognitive Psychology | 33 | 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 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 Concentration (\*): ISTE-190 Foundations of Modern Information ProcessingorWMC Concentration (\*\*): ISTE-260 Designing the User ExperienceorHCC Concentration (\*\*\*): ISTE-262 Foundations of Human Centered Computing | 333 |  | 333 |  |  | NoneISTE-140For ISTE-262: ISTE-140 or IGME-230 or NACA-172 or equivalent course |
| CIT and WMC Concentrations (\*, \*\*): General Education – Ethical Perspective orHCC Concentration: General Education – Elective: STAT-146 Introduction to Statistics II | 34 | 34 |  |  |  | For STAT-146: STAT-145 or equivalent course |
| 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 CalculusorHCC Concentration (\*\*\*): General Education – Ethical Perspective | 43 | 43 |  |  |  | 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 & WMC Concentrations (\*, \*\*): ISTE-230 Introduction to Database and Data ModelingorHCC Concentration (\*\*\*): PSYC-250 Research Methods I | 33 |  | 33 |  |  | For 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 courseFor PSYC-250: PSYC-101 and STAT-145 |
| CIT Concentration (\*): NSSA-220 Task Automation Using Interpretive LanguagesorWMC Concentration (\*\*): ISTE-222 Computational Problem Solving in the Information Technology Domain IIIorHCC Concentration (\*\*\*): ISTE-252 Foundations of Mobile Design | 333 |  | 333 |  |  | For 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-121For ISTE-252: ISTE-240 or IGME-330 or equivalent course |
| General Education – Global Perspective  | 3 | 3 |  |  |  |  |
| CIT Concentration (\*): NSSA-241 Introduction to Routing and SwitchingorWMC Concentration (\*\*): NSSA-290 Networking Essentials For DevelopersorHCC Concentration (\*\*\*): General Education – Artistic Perspective  | 333 | 3 | 33 |  |  | For NSSA-241: NSSA-102 or CSEC-101 or CSEC-140 or NACT-151 or CSCI-250 or equivalent coursesISTE-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.

**Change Log**

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| --- | --- |
| **Effective Term** | **Curriculum Modification(s)** |
| 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) |