Table A: Architectural and Civil Drafting Technology (CADTEC-AAS) 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 |  |  |  |
| NCAD-112 Computing Tools for Engineering Technology | 3 |  | 3 |  |  |  |
| NCAD-150 Engineering Graphics in AEC | 3 |  | 3 |  |  |  |
| General Education – Ethical Perspective(2) | 3 | 3 |  |  |  |  |
| General Education - Elective(2) | 3 | 3 |  |  |  |  |
| General Education - Elective: NMTH-220 Trigonometry | 3 | 3 |  |  |  | NMTH-212 or higher or equivalent course or a math placement score equal to 40 |
| **Term Credit Total:** | 15 | 9 | 6 | 0 |  |  |

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| **Term: Spring 1** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAD-170 Construction CAD I | 3 |  | 3 |  |  |  |
| NCAD-108 Data Collection & Analysis | 3 |  | 3 |  |  | NCAD-150 or equivalent course. |
| NCAD-180 Civil Technology Graphics | 3 |  | 3 |  |  | NCAD-150 or equivalent course. |
| NMTH-275 Advanced Mathematics | 3 |  | 3 |  |  | C- or better in NMTH-212 or equivalent course or a math placement score greater than or equal to 40 |
| General Education - First-Year Writing (WI) | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 15 | 3 | 12 | 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)** |
| NCAD-220 Construction CAD II | 3 |  | 3 |  |  | NCAD-108 and NCAD-170 or equivalent courses. |
| NCAD-255 Construction Materials and Methods I | 3 |  | 3 |  |  | NCAD-108 and NCAD-170 or equivalent courses. |
| NCAD-275 Principles of Structural Systems | 3 |  | 3 |  |  | NCAD-108 and NCAD-170 or equivalent courses. |
| General Education – Scientific Principles Perspective: NSCI-201 Principles of Physics | 3 | 3 |  |  |  | NMTH-180 or above |
| NCAD-201 Job Search Process for CADT | 3 |  | 3 |  |  |  |
| **Term Credit Total:** | 15 | 3 | 12 | 0 |  |  |

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| **Term: Spring 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAD-230 Construction CAD III | 3 |  | 3 |  |  | NCAD-220 and NCAD-255 or equivalent courses. |
| NCAD-265 Construction Materials and Methods II | 3 |  | 3 |  |  | NCAD-255 or equivalent course. |
| NCAD-285 MEP Systems | 3 |  | 3 |  |  | NCAD-220 or equivalent course. |
| NCAD-245 Energy Modeling for Sustainable Construction | 3 |  | 3 |  |  | NCAD 220 or equivalent course. |
| General Education - Artistic Perspective(2) | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 15 | 3 | 12 | 0 |  |  |

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| **Term: Summer 2** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAD-299 Co-op: CADT |  |  | 0 |  |  | NCAD-201 |
| **Term Credit Total:** | 0 | 0 | 0 | 0 |  |  |

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| **Term: Fall 3** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAD-240 Advanced Construction CAD | 3 |  | 3 |  |  | NCAD-230, NCAD-265, NCAD-275, and NCAD-285, or equivalent courses.  NCAD-250 or equivalent course (co-req) |
| NCAD-250 Presentation Graphics | 3 |  | 3 |  |  | NCAD-240 or equivalent course (co-req) |
| Technical Elective(3) | 3 |  | 3 |  |  |  |
| General Education - Global Perspective(2) | 3 | 3 |  |  |  |  |
| General Education - Social Perspective(2) | 3 | 3 |  |  |  |  |
| **Term Credit Total:** | 15 | 6 | 9 | 0 |  |  |

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|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **75** | **24** | **51** | **0** |

***Notes:***

1. All students pursuing an Associate’s degree are also required to complete one Wellness course.
2. An ASL-Deaf Cultural Studies (AASASLDCS) course is required for graduation. It can be taken in any semester and can be taken at NTID or another college of RIT. In order to fulfill this requirement as part of the 75 credits in the program, it must be a course approved for *both* AASASLDCS *and* a General Education - Perspective or General Education - Elective.

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| **(3) Technical Electives: Choose one from the following list of courses, or by department approval** |
| NAIS-120 Principles of Design and Color |
| NAIS-130 Raster and Vector Graphics |
| PRFN-203 Scenic and Lighting Technology |
| PRFN-218 Theatre Practicum-Lighting (Topic) (permission required from dept offering the course) |
| PRFN-218 Theatre Practicum-Set Construction (Topic) (permission required from dept offering the course) |
| CVET-140 Materials of Construction (permission required) (co-req. CVET-141 or equivalent course)  CVET-141 Materials of Construction Laboratory (permission required) (co-req. CVET-140 or equivalent course) |
| CVET-160 Surveying (permission required) (co-req. CVET-161 or equivalent course)  CVET-161 Surveying Laboratory (permission required) (co-req. CVET-160 or equivalent course) |
| NCAD-280 GIS Fundamentals |

**Change Log**

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| **Effective Term** | **Curriculum Modification(s)** |
| 2221 | 11/18/21ms/mal(Clerical-update COS mat pre-reqs); 4/1/22fxk(clerical) |
| 2211 | New addition to the table |
| Older | 4-4-13ssl; 2-19-15ph; 4-2-15jrf; 4-22-15jrf; 4-22-15ph; 4-28-15mg; 8-4-15mg; 4-17-17mg; 5-30-17fxk; 11/17/17djl; 3/15/19djl |