Table A: Architectural and Civil Drafting Technology (CADTEC-AAS) AY 2021-2022  
*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\* | 3 | 3 |  |  |  |  |
| General Education - Elective\* | 3 | 3 |  |  |  |  |
| General Education - Elective: NMTH-220 Trigonometry | 3 | 3 |  |  |  | Math placement code 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 |
| NCAD-180 Civil Technology Graphics | 3 |  | 3 |  |  | NCAD-150 |
| NMTH-275 Advanced Mathematics | 3 |  | 3 |  |  | NMTH-212 with a grade of C- or better, or Math placement code equal to or above 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,  NCAD-170 |
| NCAD-255 Construction Materials and Methods I | 3 |  | 3 |  |  | NCAD-108, NCAD-170 |
| NCAD-275 Principles of Structural Systems | 3 |  | 3 |  |  | NCAD-108, NCAD-170 |
| 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, NCAD-255 |
| NCAD-265 Construction Materials and Methods II | 3 |  | 3 |  |  | NCAD-255 |
| NCAD-285 MEP Systems | 3 |  | 3 |  |  | NCAD-220 |
| NCAD-245 Energy Modeling for Sustainable Construction | 3 |  | 3 |  |  | NCAD 220 |
| General Education - Artistic Perspective\* | 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, NCAD-285,  NCAD-250 (co-req) |
| NCAD-250 Presentation Graphics | 3 |  | 3 |  |  | NCAD-240 (co-req) |
| Technical Elective\*\* | 3 |  | 3 |  |  |  |
| General Education - Global Perspective\* | 3 | 3 |  |  |  |  |
| General Education - Social Perspective\* | 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.

\* 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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| **\*\*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) |
| PRFN-218 Theatre Practicum-Set Construction (Topic) |
| CVET-140 Materials of Construction (permission required)  CVET-141 Materials of Construction Laboratory (permission required) |
| CVET-160 Surveying (permission required)  CVET-161 Surveying Laboratory (permission required) |
| NCAD-280 GIS Fundamentals |

Revision Log:

Table 1a: 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

Table A (starting AY20-21)