# Academic Map: Certificate of Achievement (CA) Advanced Manufacturing: Machining

**Certificate of Achievement (C.A.) | 30 Total Credits | CSN Degree Code: ADVMA-CT | Catalog Year: 2022-2023 |**

Computing and Engineering Technologies    Advanced and Applied Technologies    Department of Computing and Information Technology

Jobs and Employment Information: https://www.csn.edu/cetarea

DESCRIPTION: Provides students with classroom and laboratory experiences in CADD, CAM, CNC, milling and turning. Program focuses on those skills used in manufacturing machining, industrial, and operation-support settings.

| TERM 1 – TOTAL CREDIT HOURS: 13 | Credits | Pre-Requisite/Co-Requisite | Area | Min Grade | Milestones and Notes |
|---|---|---|---|---|---|
| ET 111B or MATH 116 or above | 3 | ACT/SAT or Placement Score | GE Math | C | |
| Com Elective – See advisor/counselor | 3 | *Depends on course chosen* | GE Com | C | |
| CADD 140 Technical Drafting | 3 | *None* | Special Prog Req | C | |
| FM 101B Intro to Workplace Safety | 1 | *None* | Special Prog Req | C | |
| MTT 101 Introduction to Machine Shop | 3 | *None* | Special Prog Req | C | Mandatory Advising Required |

| TERM 2 – TOTAL CREDIT HOURS: 17 | Credits | Pre-Requisite/Co-Requisite | Area | Min Grade | Milestones and Notes |
|---|---|---|---|---|---|
| CADD Elective | 3 | *Depends on course chosen* | Special Prog Req | C | |
| MTT Elective | 4 | *Depends on course chosen* | Special Prog Req | C | |
| MTT 105 Machine Shop I | 3 | FM 101B | Special Prog Req | C | |
| MTT 106 Machine Shop Practice I | 2 | FM 101B | Special Prog Req | C | |
| MTT 110 Machine Shop II | 3 | FM 101B | Special Prog Req | C | |
| MTT 111 Machine Practice II | 2 | FM 101B | Special Prog Req | C | Apply for Graduation |