

Manufacturing Engineering Technology CAD Option

Associate in Applied Science Degree
NIMS Certified Program

This program prepares students for careers as professional draftsmen and CAD technicians. Employment opportunities for those completing the program include positions such as drafter, CAD operator, CAD technician. This is an occupational program typically not designed to transfer; however, this program has been articulated to some senior institutions. Please contact a counselor for specific details.

First time degree seeking students must complete INST101, Success in College, as a requirement for graduation.

| REQUIRED COURSES | HOURS | F,S,I,SU | GRADE |
|--|-------|----------|-------|
| First Semester | | | |
| * MATT 133 Technical Math I | 4 | | |
| DRAF 160 Machining Graphics | 2 | | |
| DRAF 166 Intro to AutoCAD | 3 | | |
| MFRG 160 Machining I | 3 | | |
| * ENGL 101 Rhetoric <u>OR</u> ENGL 121 Communication Skills | 3 | | |
| Total | 15 | | |
| Second Semester | | | |
| * MATT 134 Technical Math II | 3 | | |
| DRAF 266 Applied AutoCAD (pre: DRAF 166) | 3 | | |
| MFRG 168 CNC Setup & Operations (pre: MFRG 160) | 4 | | |
| CBUS 150 Business Computer Systems | 3 | | |
| MFRG 161 Machining II (pre: MFRG 160) | 3 | | |
| Total | 16 | | |
| Third Semester | | | |
| * ENGL 122 Technical Communication (pre: ENGL 101 or ENGL 121) | 3 | | |
| DRAF 162 Materials & Processes | 3 | | |
| DRAF 276 Advanced AutoCAD Applications (pre: DRAF 266) | 3 | | |
| MFRG 169 Intro to CNC Prog (pre: MFRG 168) | 4 | | |
| INFO 245 Employment Seminar | 1 | | |
| * Humanities Elective | 3 | | |
| Total | 17 | | |
| Fourth Semester | | | |
| ELEC 104 Industrial Safety | 3 | | |
| MFRG 280 CAD/CAM (pre: DRAF 266 & MFRG 169) | 3 | | |
| MFRG 162 Machining III (pre: MFRG 161) | 3 | | |
| * Social Science Elective | 3 | | |
| Technical Elective | 3 | | |
| Total | 15 | | |

Total Hours 63

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Manufacturing Engineering Technology CAD Option (continued)

| | HOURS | F,S,I,SU | GRADE |
|--|--------------|-----------------|--------------|
| Technical Electives | | | |
| MFRG 200 Manufacturing Management & Quality | 3 | | |
| MFRG 170 Applied CNC Programming (pre: MFRG 169) | 4 | | |
| MFRG 285 Supervised Occupational Exp. (pre: consent of instructor) | 3 | | |

See list of Human Relations requirements.

* General Education.

This program is a capstone with SIU and a cooperative with EIU and IndSU.

Enrollment in developmental classes may increase the length of time it takes to complete an associate degree.