CNC MACHINING TECHNOLOGY ITC

This program provides training that prepares students to set up and operate both manual and CNC machining equipment, handle inspection devices, analyze production problems, and move into supervision of machining. Students obtain a background in manual machining, engineering graphics, computer aided machining (CAD/CAM/CNC), quality control, material handling and leadership skills. This program provides a balance between practical training in manufacturing processes and technical education in analysis, planning, and control with supporting emphasis in communications, mathematics, science, and business.

To prepare for entry into the program courses in metal or wood shop, mechanical drawing, English, mathematics, physics, and computers are strongly recommended. Activity in clubs or organizations which emphasize leadership skills is also recommended. There is an opportunity for students to work in industry for a specified time and receive college credit, or to convert work and life experience into college credit for this program. Those interested in such an opportunity are encouraged to contact their advisor for further details at the time of registration.

Entrance requirements for degree seeking students in the CNC Machining Technology program include:

- Aleks score in Math of 30 or higher, Writing Placement Exam of 2 or higher, or qualify for Math (PT) 137 and English 101.
- Enrollment priority will be given to students on the basis of student’s advising date.

Intermediate Technical Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HRPT-184</td>
<td>DIVERSITY IN ORGANIZATIONS</td>
<td>3.00</td>
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<tr>
<td>or HRPT-185</td>
<td>HUMAN RELATIONS IN ORGANIZATIONS</td>
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Select one of the following: 3.00-5.00

- MTHPT-130  MATH FOR BUSINESS ANALYSIS
- MTHPT-137  MATH FOR TECHNOLOGY
- MTHPT-153  STATISTICAL REASONING
- MATH-123   MATHEMATICS AS A LIBERAL ART
- MATH-130   FINITE MATHEMATICS
- MATH-147   PRECALCULUS (or MATH-147A & MATH-147B)
- MATH-153   STATISTICAL REASONING
- MATH-170   CALCULUS I
- MATH-253   STATISTICAL METHODS FOR THE SCIENCES
- MATH-257   FOUNDATION OF ELEMENTARY MATHEMATICS II

Program Requirements

Select 25 credits from the following: 25.00

- AMFTI-110  MACHINING THEORY I
- AMFTI-112  MACHINING THEORY II
- AMFTI-121  INTRODUCTION TO CAD
- AMFTI-122  ENGINEERING GRAPHICS WITH AUTOCAD
- AMFTI-124  APPLIED BLUEPRINT READING
- AMFTI-141  MACHINING LAB I
- AMFTI-143  MACHINING LAB II
- AMFTI-145  INTRODUCTION TO NC AND CNC
- AMFTI-241  INTRODUCTORY CAD AND CAM
- AMFTI-243  ADVANCED CAD AND CAM
- AMFTI-245  CNC MACHINING PROCESSES
- AMFTI-261  QUALITY CONTROL
- AMFTI-263  PROJECT PLANNING
- AMFTI-265  MANUFACTURING PROJECT
- ENGTE-135  APPLIED PHYSICS

Total Credits 31.00-33.00