Department of Business & Industry

Program & Technical Standards for Computer-Integrated Machining Technology Majors

Concerns with a Course

If you have any concerns about a course, including accessibility concerns**, first consult your instructor.** If after meeting with your instructor, if you feel that your concern has not been satisfactorily addressed, or if you feel that you cannot effectively communicate with your instructor about the issue, you may contact the following people in the following order:

Second Contact

Dean of Business and Industry: Dr. Regina Hartley, (828) 565-4070, rdhartley@haywood.edu
Department Assistant: Julie Newland (828) 627-4619

Third Contact

Vice President of Instruction: Wendy Hines, (828) 565-4069, whines@haywood.edu

Program Outcomes

The Computer-Integrated Machining Technology degree program is designed to facilitate development of the following program outcomes:

1. Properly set graphic user interface, construction, and tool planes. Navigate through MasterCam X9.
2. Use the machine definition dialogue box to determine to the proper CNC machine tool for the job.
3. Create basic geometry using tools specified in tutorial #1.
4. Design a 2-dimensional by following instructions laid in tutorial#2 and #3.
5. Setup toolpath for rough and finish canned cycles: grooving and plunge rough.
6. Set-up 2D geometry: face rough and finish & threading. Tutorial #5 &#6.
7. Create 3D geometry: face contour and C-axis contour. Tutorial #7.
8. Customize toolbars to utilize default keys (HOT KEYS). General information pg C-3.
9. Create a lathe tool library utilizing the tutorial series for MasterCam X7.

EXAMPLES ARE NOT ALL INCLUSIVE.

Haywood Community College is an ADA compliant institution. The College does not discriminate on the basis of disability in the admissions process or in access to its programs, services and/or activities for qualified individuals who meet essential eligibility requirements. The College will provide reasonable accommodations for documented disabilities of individuals who are eligible to receive or participate in college programs, services and/or activities. Student Services provides a disability counselor to assist students in requesting disability related accommodations. If a student believes that he/she cannot meet one or more of the essential functions without accommodations, the student is encouraged to disclose the disability to the disability counselor as soon as possible. Students must certify the ability to *meet essential functions of the curriculum by a signed statement in the beginning of the program.*

Clinical and Lab Activity Information

Program of Study: Computer-Integrated Machining Technology
Department: Business & Industry

Job Requirements	**Occasional**	**Frequent**	**Constant**
Activity:			
(List # of lbs.) **50**			
Lifting			
Static Knuckle Height	√		
Bench Height	√		
Ankle Height	√		
Shoulder Height	√		
Dynamic Bench Height **(3 feet)**			
To the Left	√		
From the Center	√		
To the Right	√		
Carrying	√		
Cart Height **(3 feet)**			
Pushing	√		
Pulling	√		
List Frequency Only:			
Sitting	√		
Standing/Walking			√
Climbing			
Stairs	√		
Ladder	√		
Balance			
Stooping			√
Kneeling	√		
Crouching	√		
Crawling	√		
Reaching			
Forward			√
Overhead			√
Bending Reach			√
Other			√
Handling			√
Fingering			√
Feeling			√
Hearing			√
Seeing			
Near			√
Distance			√
Reading			√
Calculating			√
Compiling			√

Lifting Frequencies:

Occasional	1 lift every 30 mintes
Frequent	1 lift every 2 minutes
Constant	1 lift every 15 seconds

Other Activities:

Occasional	0-33% (1-20 min per hour)
Frequent	34-66% (21-40 min per hour)
Constant	67-100% (41-60 min per hour)

Other Notes: Students will be in contact with a water soluable coolant, oils, and cutting fluids.