



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM
H. Martin Lancaster, President

June 22, 2007

RESPONSE DEADLINE: July 14, 2007

MEMORANDUM

TO: Select Chief Academic Officers

FROM: Delores A. Parker, Vice President
Academic and Student Services

SUBJECT: Revision of Machining Technology (A50300) Curriculum Standard

The System Office has received a request to revise the curriculum standard for the Machining Technology (A50300) program.

Revision to Machining Technology (A50300) follow:

- Add DFT 119 as an additional selection for the Blueprint Reading subject area

Please review the proposed revision. ***Please complete and return the form to Frank Scuiletti by July 14, 2007.*** You may fax your response to 919-807-7164. Once the response has been received at the System Office, the request will be presented to the State Board of Community Colleges for future action at its August 2007 meeting.

Thank you for your prompt attention to this matter. If you have questions, please contact Frank Scuiletti at (919) 807-7114 or scuilettif@nccommunitycolleges.edu.

DAP/FS/swj

Attachments

c: Select Presidents
Dr. Judith C. Mann
Dr. Edith Lang
Mr. Frank Scuiletti
File Copy

S07-026
Email

College Recommendation
Curriculum Standard Revision
Machining Technology (A50300)

Proposed Machining Technology (A50300) curriculum standard:
(See attached standard)

Rationale: The additional course (DFT 119) addresses the required curriculum competencies for the subject resulting from industry related technology advances especially between Computer Aided Drafting (CAD) and Computer Aided Machining (CAM) applications.

_____ We have reviewed the proposed revision to the standard and **recommend** the adoption of this change in Machining Technology (A50300) for the following reasons(s):

We concur with the rationale.

Other: _____

_____ We have reviewed the proposed standard revision and **do not recommend** the adoption of this change in Machining Technology (A50300) for the following reason(s):

_____ We do not offer Machining Technology (A50300) and wish to decline from making a recommendation.

College: _____

Signature of President: _____ **Date:** _____

Please return this form by **July 14, 2007** to:

Frank Scuietti, Coordinator
Engineering, Industrial, and Transport
Systems Technologies
NC Community College System
5016 Mail Service Center
Raleigh, NC 27699-5016
Fax Number: (919) 807-7164

Curriculum Program Title	Machining Technology	Code	A50300
Concentration	(not applicable)		

Curriculum Description

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments.

Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations, and make decisions to ensure that work quality is maintained.

Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

Curriculum Requirements*

I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

II. Major Hours. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in a degree or diploma program up to a maximum of 8 semester hours and in a certificate program up to a maximum of 2 semester hours. (see back of page for Major Hours requirements)

III. Other Required Hours. A college may require other subjects or courses to complete graduation requirements. These requirements may include electives, orientation, study skills courses, or other graduation requirements.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit in Program	64-76	36-48	12-18

Proposed

Major Hours

A. Core. The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.

B. Concentration (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.

C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degree and diploma curriculum programs up to a maximum of 8 semester hours credit and in certificate programs up to a maximum of 2 semester hours credit.

Machining Technology A50300

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE Courses required for the diploma are designated with * Required Courses: *MAC 111 Machining Technology I 6 SHC *MAC 112 Machining Technology II 6 SHC *MAC 113 Machining Technology III 6 SHC Required Subject Areas: *Blueprint Reading. Select 4 SHC: BPR 111 Blueprint Reading 2 SHC or MAC 131 Blueprint Reading: Machining I 2 SHC and BPR 121 Blueprint Reading: Mechanical 2 SHC or MAC 132 Blueprint Reading: Machining II 2 SHC or DFT 119 Basic CAD 2 SHC *CNC. Select 4 SHC: MAC 121 Introduction to CNC 2 SHC MAC 122 CNC Turning 2 SHC MAC 124 CNC Milling 2 SHC MAC 126 CNC Metal Fabrication 2 SHC MAC 222 Advanced CNC Turning 2 SHC MAC 224 Advanced CNC Milling 2 SHC MAC 226 CNC EDM Machining 2 SHC MAC 229 CNC Programming 2 SHC	26 SHC	26 SHC	
B. CONCENTRATION (Not applicable)			
C. OTHER MAJOR HOURS To be selected from the following prefixes: BPR, BUS, CIS, COE, CSC, DFT, EGR, HYD, ISC, MAC, MEC, OMT, PLA, **SPA, and WLD ** This prefix is limited to a maximum of 3 SHC			