

NAME: _____

I.D.# _____

2011-2012
MANUFACTURING TECHNOLOGY
Associate in Applied Science Degree

This program prepares personnel for a wide range of manufacturing-related occupations. These include: machine operator, machinist, CNC operator, CNC programmer, and robotics programmer. Coursework includes basic machine shop operations and processes, CNC machine operation and programming, CAD/CAM fundamentals, robotics, and automated manufacturing applications. This program prepares technicians to operate, program, design and install manufacturing, assembly, and materials-handling equipment. Students who wish to pursue a bachelor's degree in this program should consult an advisor regarding transfer information for the Associate in Science degree with a pre-major in Manufacturing Technology.

GENERAL EDUCATION CORE (20 credits)

Area A: Communication (6 credits)

- _____ ENG 101 3 cr Composition I - grade of C or better (*Prereq. English Placement Test or ENG 099 with C or better*)
- _____ COMM 101 3 cr Principles of Communication (*Prereq. Placement in ENG 099 or above*)

Area B: Humanities and Fine Arts (3 credits)

- _____ _____ 3 cr Select one course from: ART 121, 122, 126, 129, 131; ENG 211, 212, 215, 221, 231, 232, 240, 243, 252, 256, 261, 262, 271; HUMAN 101, 102, 201, 202; MUSIC 130, 132; PHILO 201, 202, 203, 204, 205; SPAN 202; THTRE 101.

Area C: Mathematics (4 credits)

- _____ TECH 109 4 cr Technical Mathematics (*Prereq. High school algebra with C or better*)

Area D: Physical and Life Sciences (4 credits)

- _____ PHYSI 120 4 cr College Physics I (*Prereq. MATH 151 or equivalent*)

Area E: Social and Behavioral Science (3 credits)

- _____ _____ 3 cr Select one course from: ANTHR 215, 222; ECON 201, 202; GEOG101; HIST 111, 112, 115, 116, 140, 151, 152, 201, 202; POLSC 101, 140, 152, 230, 240; PSYCH 101, 102, 215; SOCIO 101, 111, 210, 215, 220.

PROGRAM REQUIREMENTS (41 credits)

- _____ CADMD 141 3 cr Technical Drafting I
- _____ CADMD 243 3 cr Introduction to AutoCAD (*Prereq. CADMD 141*)
- _____ MT 101 3 cr Metal Working Processes I
- _____ MT 102 3 cr Metal Working Processes II (*Prereq. MT 101*)
- _____ MT 105 3 cr Metal Working Processes III (*Prereq. MT 102*)
- _____ MT 210 3 cr CNC Programming I (*Prereq. MT 102*)
- _____ MT 211 3 cr CNC Programming II (*Prereq. MT 210*)
- _____ MT 212 3 cr Introduction to Robotics
- _____ MT 214 3 cr CAD/CAM Systems (*Prereq. MT 210; CADMD 243 recommended*)
- _____ MT 215 4 cr Manufacturing Systems (*MT 210 and 212*)
- _____ MATH 151 4 cr College Algebra (*Prereq. Math 095 and 096, both with a C or better; Math 095 and 1 year of HS geometry, both with a C or better; or qualifying scores on the Math Placement Test*)
- _____ PHYSI 130 4 cr College Physics II (*Prereq. PHYSI 120*)
- _____ ELECTIVES 2 cr Electives - Select 2 credits from:
 - ___ CADMD 244 (3) Intermediate AutoCAD (*Prereq. MD 243*)
 - ___ HYDR 101 (2) Fundamentals of Hydraulics [**was APPH 101**]
 - ___ WELD 101 (2) Principles of Flat Welding [**was APPW 101**]

PROGRAM TOTAL (61 credits)

- _____ Successfully completed at least 15 semester hours of credit at PSC (excluding proficiency credits).
 - _____ Attained a minimum gpa of 2.0 in all PSC courses. **Current cumulative GPA:** _____
 - _____ Filed appropriate evidence of high school graduation or GED certificate with the Office of Enrollment Services..
 - _____ Filed a **Graduation Petition Form** with the Office of Enrollment Services..
- Deadline for filing:** October 1 for Winter, March 1 for Spring, July 1 for Summer. (*December, May & August candidates may choose to participate in the annual May Commencement Ceremony. Deadline to apply for ceremony is March 1st*).

Required Completed In Progress Needed

General Education Core: 20 credits _____
Program Requirements: 41 credits _____
TOTAL CREDITS: 61 credits _____

Advised By: _____ **Date:** _____
SIGNATURE: Counselor or Advisor or Faculty Advisor

This is an UNOFFICIAL evaluation. Official Evaluations must be requested in the Office of Enrollment Services.

IMPORTANT PSC GRADUATION POLICIES

1. If the degree or certificate requirements are changed during your continuous attendance, you may elect to satisfy either the new requirements or the ones in force when you enrolled.
2. If you withdraw from Prairie State College for either a fall or spring semester, you must satisfy requirements in force at the time you re-enroll.
3. **Requests for COURSE SUBSTITUTIONS** in the program must be directed to the Program Coordinator. A Course Substitution Form must be signed by the Program Coordinator and submitted to the Office of Enrollment Services at least one semester prior to graduation.
4. Petitions for alteration of other graduation requirements must be submitted on a Student Appeal Form at least one semester prior to graduation.

DIVISION OF CAREER & TECHNICAL EDUCATION

Program Coord:	Dale Ballard	Room 2188	(708) 709-3769	dballard@prairiestate.edu
	Manf. Tech Lab	Room T-110	(708) 709-3730	
Dept. Chair:	Tom Michalak	Room T-145	(708) 709-7807	tmichalak@prairiestate.edu
Division Dean:	Marie Hansel	Room 2241	(708) 709-3648	mhansel@prairiestate.edu

CAREER PLANNING/PLACEMENT INFORMATION:

Occupational Outlook Handbook, U.S. Department of Labor: <http://www.bls.gov/oco/home.htm>

Tooling and Manufacturing Association: www.tmanet.org

National Tooling and Machining Association: www.ntma.org

National Association of Manufacturers: www.nam.org

Employment opportunities: www.collegecentral.com/prairiestate