

NAME: \_\_\_\_\_

I.D.# \_\_\_\_\_

**2009-2010**  
**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)**

- \_\_\_\_\_ Enrolled at PSC for **two semesters immediately preceding** graduation.  
 \_\_\_\_\_ 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 Admissions.  
 \_\_\_\_\_ Satisfied U.S. & State of Illinois Constitution requirements by submitting a high school transcript proving test was successfully completed in high school, or by taking POLSC 140 or 152, or a proficiency exam.  
 \_\_\_\_\_ Filed a **Graduation Petition Form** with the Office of Admissions and Records.  
**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 1<sup>st</sup>.*)

|                                | Required   | Completed | In Progress | Needed |
|--------------------------------|------------|-----------|-------------|--------|
| <b>General Education Core:</b> | 20 credits | _____     | _____       | _____  |
| <b>Program Requirements:</b>   | 41 credits | _____     | _____       | _____  |
| <b>TOTAL CREDITS:</b>          | 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 Admissions**

**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 Admissions and Records 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**

|                       |                                |                          |                                  |  |
|-----------------------|--------------------------------|--------------------------|----------------------------------|--|
| <b>Program Coord:</b> | Dale Ballard<br>Manf. Tech Lab | Room 2188<br>Room T-110  | (708) 709-2188<br>(708) 709-3730 | <a href="mailto:dballard@prairiestate.edu">dballard@prairiestate.edu</a> |
| <b>Dept. Chair:</b>   | John Lim<br>Lab                | Room T-145<br>Room T-195 | (708) 709-3783<br>(708) 709-3736 | <a href="mailto:jlim@prairiestate.edu">jlim@prairiestate.edu</a>         |
| <b>Division Dean:</b> |                                | Room 2122                | (708) 709-3689                   |  |

**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](http://www.tmanet.org)

National Tooling and Machining Association: [www.ntma.org](http://www.ntma.org)

National Association of Manufacturers: [www.nam.org](http://www.nam.org)

Employment opportunities: [www.collegecentral.com/prairiestate](http://www.collegecentral.com/prairiestate)