## Business & Technology Division Degree Plan

**2013-2014**  
**PRECISION MANUFACTURING TECHNOLOGY**  
Associate of Applied Science

### STUDENT NAME

- **ADDRESS**
- **TELEPHONE (DAY)**

### ENROLLMENT DATE

#### PLACEMENT TESTING:

<table>
<thead>
<tr>
<th>Alternative Exam:</th>
<th>Read</th>
<th>Writing</th>
<th>Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuplacer/ASSET/COMPASS/THEA</td>
<td><em>TSI COMPLETE/EXEMPT/WAIVED</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ACT

- **DATE:**

### SAT

- **DATE:**  
  - *Texas Success Initiative Rules*

### DEVELOPMENTAL COURSES (enter grade)

- **Orin 101 - College Success**
- **None**
- **READ 70**
- **READ 80**
- **READ 90**  
  - Non Course Remediation
- **ENGL 71**
- **ENGL 81**
- **ENGL 91**  
  - Non Course Remediation
- **MATH 80**
- **MATH 85**
- **MATH 90**  
  - Non Course Remediation

### Major Courses

<table>
<thead>
<tr>
<th>SCH</th>
<th>COLLEGE</th>
<th>SEM/YR</th>
<th>GRADE</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>

#### FIRST YEAR - FALL SEMESTER

- **DFTG 1425** Blueprint Reading and Sketching  
  - 4
- **MCHN 1438** Basic Machine Shop I  
  - 4
- **MCHN 1301** Beginning Machine Shop  
  - 3
- **MCHN 1320** Precision Tools and Measurements  
  - 3

#### FIRST YEAR - SPRING SEMESTER

- **DFTG 1313** Drafting for Specific Occupations  
  - 3
- **MCHN 1452** Intermediate Machining I  
  - 4
- **DEM 1301** Shop Safety and Procedures  
  - 3
- **MCHN 2403** Fundamentals of Computer Numerical Controlled (CNC) Machine Controls  
  - 4

#### FIRST YEAR - SUMMER SEMESTER

- **ENGL 1301** Composition  
  - 3
- **SPCH 1311** Introduction to Speech Communication  
  - 3
  
  | Social / Behavioral Science Elective | 3 |

#### SECOND YEAR - FALL SEMESTER

- **MCHN 1319** Manufacturing Material and Processes  
  - 3
- **MCHN 1326** Intro to Computer-Aided Manufacturing (CAM)  
  - 3
- **MCHN 2547** Specialized Tools and Fixtures  
  - 5
- **MCHN 2341** Advanced Machining I  
  - 3

#### SECOND YEAR - SPRING SEMESTER

- **Humanities Elective**  
  - 3
  
  | **Program Elective** | 3 |

  | Mathematics / Natural Sciences Elective | 4 |

- **MCHN 2382** CAPSTONE: Cooperative Education II  
  - 3

### Identifies Courses to Fulfill Minimum 15 Hours General Education Requirement

**See back of degree plan for Program Elective Options**

<table>
<thead>
<tr>
<th>STUDENT’S SIGNATURE</th>
<th>DATE</th>
<th>FACULTY/ADVISOR’S SIGNATURE</th>
<th>DATE</th>
</tr>
</thead>
</table>
2013-2014  Precision Manufacturing Technology, Associate of Applied Science

PRE-REQUISITES:

DFTG 1425  BLUEPRINT READING AND SKETCHING
Prerequisite: None.

MCHN 1438  BASIC MACHINE SHOP I
Prerequisite: None.

MCHN 1301  BEGINNING MACHINE SHOP
Prerequisite: None.

MCHN 1320  PRECISION TOOLS AND MEASUREMENT
Prerequisite: None.

DFTG 1313  DRAFTING FOR SPECIFIC OCCUPATIONS
Prerequisite: DFTG 1425.

MCHN 1452  INTERMEDIATE MACHINING I
Prerequisite: DFTG 1425, MCHN 1438.

DEMR 1301  SHOP SAFETY AND PROCEDURES
Prerequisite: None.

MCHN 2403  FUNDAMENTALS OF COMPUTER NUMERICAL CONTROLLED (CNC) MACHINE CONTROLS
Prerequisite: MCHN 1452, DFTG 1313, MCHN 1438.

ENGL 1301  COMPOSITION
Prerequisite: A score of 60+/E-6, E-7, E-8 or 80+/E-5 on the ACCUPLACER Exam for Writing,
equivalent placement score, or completion of ENGL 0200 with a grade of "C" or better; and a score of 78 on the ACCUPLACER Exam for Reading, the completion of READ 0200 or equivalent.

SPCH 1311  INTRODUCTION TO SPEECH COMMUNICATION
Prerequisite: Completion of READ 0200 or equivalent.

MCHN 1319  MANUFACTURING MATERIAL AND PROCESSES
Prerequisite: MCHN 1301, MCHN 1438, DFTG 1425.

MCHN 1326  INTRODUCTION TO COMPUTER-AIDED MANUFACTURING (CAM)
Prerequisite: DFTG 1313, DFTG 1425.

MCHN 2547  SPECIALIZED TOOLS AND FIXTURES
Prerequisite: DFTG 1313, MCHN 2341, MCHN 1452.

MCHN 2341  ADVANCED MACHINING I
Prerequisite: MCHN 1452.

MCHN 2382  CAPSTONE: COOPERATIVE EDUCATION II
Prerequisite: MCHN 1382.

SOCIAL / BEHAVIORAL SCIENCES ELECTIVE - 3 CREDITS ( Depending on the course, check the catalog
for pre-requisites.)
MATHEMATICS / NATURAL SCIENCES ELECTIVE - 4 CREDITS ( Depending on the course, check the catalog
for pre-requisites.)
HUMANITIES ELECTIVE - 3 CREDITS ( Depending on the course, check the catalog for pre-requisites.)

**PRE-REQUISITES FOR PROGRAM ELECTIVES:

PLTC 1445  PLASTIC PROCESSES I
Prerequisite: None.

PLTC 2346  PLASTIC PROCESSES II
Prerequisite: PLTC 1445.

MCHN 2345  ADVANCED MACHINING II
Prerequisite: MCHN 2341.

DFTG 2402  MACHINE DRAFTING
Prerequisite: DFTG 1313.

MCHN 2344  COMPUTERIZED NUMERICAL CONTROL PROGRAMMING
Prerequisite: MCHN 2403.