

# Precision Manufacturing & Machining Technology



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## Contact

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Division of Industrial Technology

**MERIDIAN**  
COMMUNITY COLLEGE

# Admission Requirements

Progression: To meet graduation requirements for this program, students must successfully complete the specified courses listed below with a "C" average (GPA of 2.00) or better. A grade of "C" or higher is required in each MST course to progress in the program.

Minimum admission requirements (in addition to general admission requirements):

Attain a 16 composite score on the ACT;

Or

Score 61 or higher on the ACCUPLACER Reading Section and 43 or above on the Algebra Section;

Or

Earn a "C" or above in Math for Occupational Education (CTE 1113);

Or

Complete 15 semester hours with a "C" average or above from an accredited college or university. Developmental coursework does not satisfy this requirement.

Students in the Precision Manufacturing & Machining Technology Program must attend MCC full-time (12 or more semester credit hours).

# Course of Study

## Associate Degree Option

<b>FIRST YEAR</b>		
<b>First Semester</b>		<b>Hours</b>
MST 1313	Advanced Shop Mathematics	3
MST 1413	Blueprint Reading	3
MST 1115	Power Machinery I	5
MST 1911	Seminar I	1
ENG 1113	English Composition I	3
<b>Semester Hours</b>		<b>15</b>

<b>Second Semester</b>		<b>Hours</b>
MST 1124	Power Machinery II	4
MST 1613	Precision Layout	3
MST 1423	Advanced Blueprint Reading	3
MST 1921	Seminar II	1
	Math/Science Elective	3
	Humanities/Fine Arts Elective	3
<b>Semester Hours</b>		<b>17</b>

<b>SECOND YEAR</b>		
<b>First Semester</b>		<b>Hours</b>
	Technical Elective*	3
MST 2135	Power Machinery III	5
MST 2714	Computer Numerical Control Operations I	4
SPT 1113	Public Speaking	3
MST 1931	Seminar III	1
<b>Semester Hours</b>		<b>16</b>

<b>Second Semester</b>		<b>Hours</b>
	Technical Elective *	3
MST 2724	Computer Numerical Control Operations II	4
MST 2145	Power Machinery IV	5
MST 1941	Seminar IV	1
	Social Behavioral Science Elect	3
<b>Semester Hours</b>		<b>16</b>
<b>Total Semester Hours</b>		<b>61</b>

\*Technical Elective options:

Metallurgy	(MST 2813, 3 hrs.)
Computer Applications I	(CSC 1123 3 hrs.)
Computer Aided Design I	(DDT 1313, 3 hrs.)
Fundamentals of CAD/CAM	(MST 2734, 4hrs.)
Fundamentals of GD&T	(MST 1624, 4 hrs.)
Lathe Turning Knowledge	(MST 1222, 2 hrs.)
Special Problems in Machine Tool Technology	(MST 2913, 3 hrs.)
Work-Based Learning	(WBL 1913, 3 hrs.)
Computational Methods for Drafting	(DDT 1123, 3 hrs.)

# Course of Study

## One Year Certificate

## Two Year Certificate

### FIRST YEAR (One Year Certificate)

First Semester		Hours
MST 1313	Advanced Shop Mathematics	3
MST 1413	Blueprint Reading	3
MST 1115	Power Machinery I	5
MST 1911	Seminar I	1
	Technical Elective	3
<b>Semester Hours</b>		<b>15</b>

Second Semester		Hours
MST 1124	Power Machinery II	4
MST 1613	Precision Layout	3
MST 1423	Advanced Blueprint Reading	3
MST 1921	Seminar II	1
	Technical Elective	6
<b>Semester Hours</b>		<b>17</b>

### SECOND YEAR (Two Year Certificate)

MST 2135	Power Machinery III	5
MST 2714	Computer Numerical Control Operations I	4
	Technical Elective	4
MST 1931	Seminar III	1
<b>Semester Hours</b>		<b>14</b>

Second Semester		Hours
MST 2145	Power Machinery IV	5
MST 2724	Computer Numerical Control Operations II	4
MST 1941	Seminar IV	1
	Technical Elective	4
<b>Semester Hours</b>		<b>13</b>
<b>Total Semester Hours</b>		<b>60</b>

\*Technical Elective options:

- Metallurgy (MST 2813, 3 hrs.)
- Computer Applications I (CSC 1123, 3 hrs.)
- Computer Aided Design I (DDT 1313, 3 hrs.)
- Special Problems in Machine Tool Technology (MST 2913, 3 hrs.)
- Work-Based Learning (WBL 1913, 3 hrs.)
- Computational Methods for Drafting (DDT 1123, 3 hrs.)
- Fundamentals of CAD/CAM (MST 2734, 4 hrs.)
- Fundamentals of GD&T (MST 1624, 4 hrs.)
- Lathe Turning Knowledge (MST 1222, 2 hrs.)