



**2020-2021 Completion Guide**  
**Precision Machine Technology AAS TE550**  
**ICCB Approved Total Program Hours: 69**

Date: *The following schedule is based on full-time enrollment. Students planning to transfer to a senior institution should check with that institution for specific transfer requirements.*

Program Prerequisites

**T= Traditional    H = Hybrid    W = Web**

<b>First Semester</b>						
Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
MFG 115	Blueprint Reading for Manufacturing and Welding	3	T		FL, SP	
CADD 101	2D Computer Aided Design and Drafting I	3	T	MATH 095 or consent of department	FL, SP	
MFG 101	Precision Machine Tool Technology I	4	T		FL, SP	
MFG 107	Dimensional Metrology	3	T		FL, SP	
Social Science Elective	Select one course from Group II: Social and Behavioral Sciences	3	Varies		FL, SP, SM	
<b>Total Semester Hours</b>		<b>16</b>				

<b>Second Semester</b>						
Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
ENG 101 OR ENG 130	Rhetoric or Technical Writing and Communication	3	T	Appropriate COMPASS placement score or minimum grade "C" in one of the following: ENG 021 and ENG 099, or the EAP course sequence ENG 079 and ENG 089, or ENG 096. ENG 130 -- COMPASS Placement into ENG 101 or minimum grade "C" in one of the following: ENG 021 and ENG 099, or the EAP course sequence ENG 079 and ENG 089, or ENG 096.	FL, SP, SM	
CADD 120	3D Computer Aided Design and Drafting I	3	T	CADD 101, CADD 110, and EGR 101, or consent of department	FL, SP	
MFG 111	Numerical Control	3	T	MFG 101	FL, SP	
MFG 102	Precision Machine Tool Technology II	4	T	MFG 101	FL, SP	
MATH 119	Mathematics for Technical Students	5	T		FL, SP	
<b>Total Semester Hours</b>		<b>18</b>				

Third Semester						
Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
CADD 250 or	CREO Parametric 3D Solid Modeling	3	T	CADD 101 and CADD 120 with a minimum grade of C or consent of department	FL, SP	
CADD 270	Solidworks - Parametric 3D Solid Modeling	3	T	CADD 101 or an experienced drafter, designer, or engineer		
MFG 103	Precision Machine Tool Technology III	5	T	MFG 102	FL, SP	
MFG 112	Advanced Numerical Control	3	T	MFG 111 or CADD 101	FL, SP	
WLDG -- any	Select a course from any WLDG prefix	3	T		FL, SP	
ENG 102 or ENG 230	Rhetoric or Technical Writing and Communication	3	T	ENG 101 with minimum grade of C, or ENG 130 with minimum grade of C.	FL, SP, SM	
MFG 109	Metric Measurement	1	T	MFG 107	FL, SP	
	<b>Total Semester Hours</b>	<b>18</b>				

Fourth Semester						
Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
MFG 200	Advanced Blueprint Reading/Geometric Dimensioning and Tolerancing	3	T	MFG 115 and CADD 101	FL, SP	
MFG 120	Physical Metallurgy	3	T	MFG 101	FL, SP	
MFG 113	CNC Machine Set-up and Operation	3	T	MFG 112	FL, SP	
MFG 104	Manufacturing Processes	5	T	MFG 103 and MFG 112 and CADD 101. Concurrent: MFG 112 can be taken concurrently with this course with departmental approval.	FL, SP	
Gen. Ed Requirement	Select one course from Groups I-V: General Education	3	Varies		FL, SP, SM	
	<b>Total Semester Hours</b>	<b>17</b>				

### Graduation Requirements

To be awarded an Associate degree at Joliet Junior College, each student must meet the following requirements:

1. Satisfy all admissions requirements.
2. Complete the courses required to earn the given degree. If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 60 credit hours of which 15 credit hours applicable to the degree are earned at JJC. Proficiency test, CLEP, and Advanced Placement does not meet this requirement.
3. Earn a cumulative grade point average of at least 2.0.
4. Discharge all financial obligations to the College and have no restrictions.

5. File an application for graduation. An application should be filed at the time of registration for the student's anticipated last semester.
6. Have all official transcripts from other college/universities on file in the Graduation Office by the graduation filing date for evaluation of credit. A delay in the process may result in a later graduation date.

To be awarded a Certificate of Achievement or Certificate of Completion at JJC, each student must meet the following requirements:

1. Satisfy all admission requirements.
2. Complete the courses required to earn the chosen certificate. Complete a minimum of 4-29 credit hours (Certificate of Completion) or 30-50 credit hours (Certificate of Achievement). If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 25% of the total required credit hours applicable to the certificate at JJC. Proficiency test, CLEP, and Advanced Placement do not meet this requirement.
3. Earn a cumulative grade point average of at least 2.0 in the area of concentration.
4. Discharge all financial obligations to the college and have no restrictions.
5. File an application for graduation. An application should be filed at the time of registration for the student's anticipated last semester.
6. Have all official transcripts from other college/universities on file in the Graduation Office by the graduation filing date for evaluation of credit. A delay in the process may result in a later graduation date.

For more information:	<b>Department Chairperson</b>	<b>Program Coordinator</b>	<b>Program Advisor</b>
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