

Program:	MTT.AAS Machine Tool Technology AAS (66 credits)			Division:	STEM
Student:		ID#:		Catalog Year:	2025-2026

Developmental Education Courses (if required)								
<input type="checkbox"/>	EAP-018	Intensive Academic English	<input type="checkbox"/>	MAT-020	Basics of College Math	<input type="checkbox"/>	COM-017/019	Foundational Reading/Writing
<input type="checkbox"/>	EAP-020/040	EAP Reading I and Writing I	<input type="checkbox"/>	MAT-03_		<input type="checkbox"/>	COM-097	Academic Literacy I
<input type="checkbox"/>	EAP-050/060	EAP Writing II and Reading II				<input type="checkbox"/>	COM-098	Academic Literacy II

SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion. Plans may be modified by adding more semesters.

SEMESTER 1 – Fall (17 credits)					
	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
M	MTT-100	Basic CNC Machine Operation – OSHA Certification	5	MAT-020	ALL
M	MTT-105	Introduction to Machining	3	MAT-020	ALL
M	MTT-110	Basic Machine Tools	3	MAT-020	ALL
G	CSS-103*	College Success Strategies	3		All & OL
G	COM-121*	English Composition	3	COM-098 or EAP-050 and EAP-060 with a “C” or better or by placement	All & OL

SEMESTER 2 – Spring (15 credits)					
	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
M	MTT-132	Blueprint Reading	3	MTT-105, MTT-110	ALL
M	MTT-157	Turning Technology - Level 1	3	MTT-105	ALL
M	MTT-158	Milling Technology - Level 1	3	MTT-105	ALL
G	MAT-165	Trigonometry	3	MAT-160 or by math placement score	All & OL
G	SOC-130	Sociology	3	COM-098 or EAP-050 and EAP-060	All & OL

SEMESTER 3 – Fall (17 credits)					
	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
M	MTT-107	Engineering Graphics	2	MTT-132	ALL
M	MTT-180	CNC Programming	3	MAT-165	ALL
M	MTT-185	CNC Milling - Level 1	3	Co-requisite: MTT-212	ALL
M	MTT-212	Milling Technology - Level 2	3	MTT-158	ALL
G	COM-141	Technical Writing	3	COM-121* with “C” or better	All
G	IFT-110*	Microcomputer Applications	3	MAT-020; COM 097 or EAP 040 & EAP 020 or by placement	ALL & OL

SPRING SEMESTER 4 – Spring (16-19 credits)					
	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
M	MTT-225	Turning Technology - Level 2	3	MTT-157	ALL
M	MTT-272	CNC Milling - Level 2	3	MTT-185	ALL
M	MTT-288	CAM Programming	3	MTT-180	ALL
G	Humanities	ART-111, ART-201, COM-110, ENG-125*, MUS-221, PHI-271*, PHI-275* or THR-120	3	COM-098 or EAP-050 and EAP-060 or COM-121* with “C” or better	All & OL
G	PHY-150	Applied Physics	4	MAT-110, COM-098 or EAP-050 and EAP-060	Fall/Spring
E	MTT/MET Elective	See below	Var.		

Electives: choose one					
	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
E	MTT-265	CNC Fixture Design	2	MTT-132, MTT-107, MAT-165	ALL
E	MTT-276	Advanced CNC Turning	3	MTT-180	ALL
E	MET-111	Fundamentals of Manufacturing	1	MAT-035 with a “C” or better	ALL

Date created: September 2019	Updated: May 2025	All = Fall/Spring/Summer; OL = Online M = Major; E = Elective; G = GenEd
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E	MTT-221	Grinding Technology	3	MTT-110, MTT-158	ALL
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*Sections of these courses offered in the Honors Program, check <https://www.racc.edu/academics/honors-program> for details. **Online (OL)** may not be offered every semester. Please check the schedule.

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