

Program:	MTT.AAS Machine Tool Technology AAS (66 credits)	Division:	STEM
Student:		ID#:	Catalog Year: 2020-21

Developmental Education Courses (if required)					<input type="checkbox"/>	COM-017/019	Foundational Reading/Writing	
<input type="checkbox"/>	EAP-018	Intensive Academic English	<input type="checkbox"/>	MAT-020	Basics of College Math	<input type="checkbox"/>	COM-097	Academic Literacy I
<input type="checkbox"/>	EAP-050/060	EAP Reading I and Writing I	<input type="checkbox"/>	MAT-035	Algebra 1 w/ Quadratics	<input type="checkbox"/>	COM-098	Academic Literacy II
Additional Math courses may be required								
<input type="checkbox"/>	MAT-110	Intermediate Algebra	<input type="checkbox"/>	MAT-160	College Algebra			

SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS

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

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

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

FALL SEMESTER 2					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MTT-107	Engineering Graphics	2	MTT-132	ALL
	MTT-180	CNC Programming	3	MAT-165	ALL
	MTT-185	CNC Milling - Level 1	3	Co-requisite: MTT-212	ALL
	MTT-212	Milling Technology - Level 2	3	MTT-158	ALL
	COM-141	Technical Writing	3	COM-121 or COM-122 (C or better)	All
	IFT-110*	Microcomputer Applications	3	MAT-020	All & OL

SPRING SEMESTER 2					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MTT-225	Turning Technology - Level 2	3	MTT-157	ALL
	MTT-272	CNC Milling - Level 2	3	MTT-185	ALL
	MTT-288	CAM Programming	3	MTT-180	ALL
	HUM Elective	ART-111, ART-201, COM-110, ENG-125*, PHY-271*, PHY-275*	3	COM-098 or EAP-050 and EAP-060 or COM-121	All & OL
	PHY-150	Applied Physics	4	MAT-110, MAT-160, or MAT-165	F/Sp
	MTT/MET Elective	See below	Var.		

Electives: choose one					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MTT-265	CNC Fixture Design	2	MTT-132, MTT-107, MAT-165	ALL
	MTT-276	Advanced CNC Turning	3	MTT-180	ALL
	MET-111	Fundamentals of Manufacturing	1	MAT-035 with a "C" or better	ALL
	MTT-221	Grinding Technology	3	MTT-110, MTT-158	ALL

*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.