Program: Machine Tool Technology AAS (65 credits)				Division: Science/Math			
Student:				ID#:		Catalog Yr: 2019-2020	
GENERAL EDUCATION REQUIREMENTS –AAS (25 credits)							
√	**Course#**	**Course Name**	**Cr.**	**Req.**	**Pre-requisites**	**Sem.**	**Code^**
	ORI-103*	College Success Strategies	3	X		All & OL	
	COM-121*	English Composition	3	X	COM-098 or ESL-050 and ESL-060 (C or better)	All & OL	WC/IL
	COM-141	Technical Writing	3	X	COM-121 or COM-122 (C or better)	All	OC
	IFT-110*	Microcomputer Applications	3	X	MAT-020	All & OL	TC
ARTS and HUMANITIES: 3 credits							
	Select 1 course from the following:						
	ART-111	Introduction to Drawing	3		COM-098 or ESL-050 and ESL-060	All	AU
	ART-201	Art Appreciation	3		COM-121 or COM-122 (C or better)	All & OL	AU
	COM-110	Intro. to Creative Writing	3	X	COM-098 or ESL-050 and ESL-060	All	AU
	ENG-125*	Introduction to Literature	3		COM-121 or COM-122 (C or better)	All & OL	AU
	PHI-271*	Philosophy	3		COM-121 or COM-122	All& OL	AU
	PHI-275*	Ethics	3		COM-121 or COM-122	All	AU
MATHEMATICS: 3 credits							
	MAT-165	Trigonometry	3	X	MAT-160 or by math placement score	All&OL	QR/CA
NATURAL/PHYSICAL SCIENCES: 4 credits							
	PHY-150	Applied Physics	4	X	MAT-110, -160, or MAT-165	F/Sp	SR
SOCIAL SCIENCES: 3 credits							
	SOC-130*	Sociology	3	X	COM-098 or ESL-050 and ESL-060	All & OL	CU

*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.

^Code	This course fulfills the Core Competency for:
WC/IL	Written Communication/Information Literacy
OC	Oral Communication
QR/CA	Quantitative Reasoning/Critical Analysis
CU	Cultural Understanding
AU	Aesthetic Understanding
SR	Scientific Reasoning
TC	Digital/Technical Competence

	Program: Machine Tool Technology AAS (MTT.AAS)				Division: Science/Math		
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<table>
<tr><td colspan="8" align="center">MAJOR REQUIREMENTS   (40 credits)</td></tr>
<tr><td>√</td><td>Course#</td><td>Course Name</td><td>Cr.</td><td>Req.</td><td>Pre-requisites</td><td>Sem.</td><td>Grade</td></tr>
<tr><td></td><td>MTT-100</td><td>Basic CNC Machine Operation – OSHA Certification</td><td>5</td><td>X</td><td>MAT-020</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-105</td><td>Introduction to Machining</td><td>3</td><td>X</td><td>MAT-020</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-107</td><td>Engineering Graphics</td><td>2</td><td>X</td><td>MTT-132</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-110</td><td>Basic Machine Tools</td><td>3</td><td>X</td><td>MAT-020</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-132</td><td>Blueprint Reading</td><td>3</td><td>X</td><td>MTT-105, MTT-110</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-157</td><td>Turning Technology - Level 1</td><td>3</td><td>X</td><td>MTT-105</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-158</td><td>Milling Technology - Level 1</td><td>3</td><td>X</td><td>MTT-105</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-180</td><td>CNC Programming</td><td>3</td><td>X</td><td>MAT-165</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-185</td><td>CNC Milling - Level 1</td><td>3</td><td>X</td><td>Co-requisite: MTT-212</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-212</td><td>Milling Technology - Level 2</td><td>3</td><td>X</td><td>MTT-158</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-225</td><td>Turning Technology - Level 2</td><td>3</td><td>X</td><td>MTT-157</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-272</td><td>CNC Milling - Level 2</td><td>3</td><td>X</td><td>MTT-185</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-288</td><td>CAM Programming</td><td>3</td><td>X</td><td>MTT-180</td><td>ALL</td><td></td></tr>
<tr><td colspan="8">Choose at least one elective course listed below</td></tr>
<tr><td></td><td>MTT-221</td><td>Grinding Technology</td><td>3</td><td></td><td>MTT-110, MTT-158</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-265</td><td>CNC Fixture Design</td><td>2</td><td></td><td>MTT-132, MTT-107, MAT-165</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MTT-276</td><td>Advanced CNC Turning</td><td>3</td><td></td><td>MTT-180</td><td>ALL</td><td></td></tr>
<tr><td></td><td>MET-111</td><td>Fundamentals of Manufacturing</td><td>1</td><td></td><td>MAT 035 with a "C" or better</td><td>ALL</td><td></td></tr>
</table>

Advisor's Contact Information:

Name: Judy Vecchio
Office: T108
Phone: 610-372-4721, ext. 5716
E-Mail: jvecchio@racc.edu