



Program: Mechatronics Engineering Technology AAS (75 credits) Division: Science/Math							
Student:				ID#:		Catalog Yr: 2017-18	
GENERAL EDUCATION REQUIREMENTS –AAS (28 credits)							
√	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code^
	ORI-103*	College Success Strategies	3	X		All & OL	
	COM-121*	English Composition I	3	X	COM-061 or ESL-060 and COM-051 or ESL-050 (C or higher)	All & OL	WC/IL
	COM-141	Technical Writing	3	X	COM-121 or COM-122 (C or better)	F/Sp & OL	OC
	IFT-110*	Microcomputer Applications	3	X	MAT-020 and COM-061 or ESL-060	All & OL	TC
ARTS AND HUMANITIES: 3 credits							
Select 1 course from the following:							
	ART-111	Introduction to Drawing	3	X	COM-061 or ESL-060 and COM-051 or ESL-050	All	AU
	ART-201	Art Appreciation	3		COM-121 or COM-122	All & OL	AU
	COM-110	Intro. to Creative Writing	3		COM-061 or ESL-060 and COM-051 or ESL-050	F/SP & OL	AU
	ENG-125*	Introduction to Literature	3		COM-121 or COM-122 (C or higher)	All & OL	AU
	PHI-271*	Philosophy	3		COM-121 or COM-122	All & OL	AU
	PHI-275*	Ethics	3		COM-121 or COM-122	Fall/Sp	AU
MATHEMATICS: 3 credits							
	MAT-165	Trigonometry	3	X	MAT-160 or by assessment	All & OL	QR/CA
NATURAL/PHYSICAL SCIENCES: 7 credits							
	PHY-150	Applied Physics	4	X	COM 061 or ESL 060, MAT 110	Fall/Sp	SR
	ENV-130*	The Environment	3	X	COM 061 or ESL 060	All & OL	
SOCIAL SCIENCES: 3 credits							
	SOC-130*	Sociology	3	x	COM-061 or ESL-060 and COM-051 or ESL-050	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



<b>Program: Mechatronics Engineering Technology AAS (MET.AAS)</b>		<b>Division: Science/Math</b>	
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<b>MAJOR REQUIREMENTS (47 credits)</b>							
<b>√</b>	<b>Course#</b>	<b>Course Name</b>	<b>Cr.</b>	<b>Req.</b>	<b>Pre-requisites</b>	<b>Sem.</b>	<b>Grade</b>
	NET-106	Installation and Maintenance of PCs I	3	X	IFT-110	Spring	
	MET-101	Fundamentals of Shop Machinery	3	X	MAT 035 with a "C" or higher, COM 021	All	
	MET-111	Fundamentals of Manufacturing	1	X	MAT 035 with a "C" or higher, COM 021	All	
	MET-120	Industrial Mechanics I	5	X	MAT-110	All	
	MET-130	Industrial Electrical Systems	4	X	MAT-110	All	
	MET-140A	Intro to Programmable Logic Controllers I	2	X	MET-130	All	
	MET-140B	Intro to Programmable Logic Controllers II	2	X	MET-140A	All	
	MET-150	Industrial Mechanics II	6	X	MET-120, PHY-150	All	
	MET-160	Rotating Electrical Machines	4	X	MET-130	All	
	MET-200	Robotics and Motion Control	4	X	MET-140A, MET-140B, MET-160	All	
	MET-210	Process Control & Instrumentation	3	X	MET-130, PHY-150	All	
	MET-220	Advanced PLCs (ControlLogix or S7)	4	X	MET-140A, MET-140B (Co-requisites: MET-200, MET-210)	All	
	MET-230	Integrated Manufacturing Systems	3	X	MET-200, MET-220, NET-106	All	
	MET-240	Mechatronics Application Project	3	X	MET-150, MET-200, MET-210, MET-220	All	

**Advisor's Contact Information:**

**Name:** Bonnie Spayd  
**Office:** T109  
**Phone:** 610-372-4721, ext. 6207  
**E-Mail:** [bspayd@racc.edu](mailto:bspayd@racc.edu)

**Name:** Judy Vecchio  
**Office:** T108  
**Phone:** 610-372-4721, ext. 5716  
**E-Mail:** [jvecchio@racc.edu](mailto:jvecchio@racc.edu)