

Program:	MET.AAS Mechatronics Engineering Technology (69 credits)	Division:	Business
Student:		ID#:	Catalog Year: 2021-22

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-03_		<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 (15 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MET-101	Fundamentals of Shop Machinery	3	MAT-035 with a C or better	All
	MET-111	Fundamentals of Manufacturing	1	MAT-035 with a C or better	All
	MET-120	Industrial Mechanics I	5	MAT-035	All
	CSS-103*	College Success Strategies	3		All & OL
	COM-121*	English Composition I	3	COM-098 or EAP-050 and EAP-060 (C or higher)	All & OL

SEMESTER 2 – Spring (14 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MET-130	Industrial Electrical Systems	4	MAT-110	All
	MET-140A	Intro to Programmable Logic Controllers I	2	MET-130	All
	MET-140B	Intro to Programmable Logic Controllers II	2	MET-140A	All
	HUM Elective	ART-111, ART-201, CON-110, ENG-125*, PHI-275*, PHI-275*	3	COM-098 or EAP-050 and EAP-060; COM-121/2	All & OL
	MAT-160	College Algebra	3	MAT-110	All & OL

SEMESTER 3 – Fall (20 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MET-150	Industrial Mechanics II	6	MET-120, PHY-150	
	MET-160	Rotating Electrical Machines	3	MET-130	
	MET-200	Robotics and Motion Control	4	MET-140A, MET-140B, MET-160	
	SS Elective	ANT-140, HIS-110/115, PSY-130*	3	COM-098 or EAP-050 and EAP-060; COM-121/2	All & OL
	PHY-240	Physics I	4	MAT 110	Fall/Sp

SEMESTER 4 – Spring (16 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MET-210	Process Control & Instrumentation	3	MET-130, PHY-150	All
	MET-220	Advanced PLCs (Control Logix or S7)	4	MET-140A, MET-140B (Co-requisites: MET-200, MET-210)	All
	MET-240	Mechatronics Application Project	3	MET-150, MET-200, MET-210, MET-220	All
	STEM Elective	BIO-150, CHE-150, or PHY-245 *BIO-150 or CHE-150 can be substituted with BIO-120 (Biological Concepts) or CHE-120 (Principles of Chemistry)	4		All & OL
	SOC-130*	Sociology	3	COM-098 or EAP-050 and EAP-060	All & OL

*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.

Advisor's Contact Information:

Date created: September 2019	Updated: May 2021	All = Fall/Spring/Summer OL = Online
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