

Program: MET.AAS Mechatronics Engineering Technology (69 credits)	Division: STEM
Student:	ID#:
Catalog Year: 2022-23	

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 I – Fall (17 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	CSS-103*	College Success Strategies	3		All & OL
	IFT-110	Microcomputer Applications	3	MAT 020; COM-098 or EAP-050 and EAP-060	All
	MET-120	Industrial Mechanics I	5	MAT-035 with a "C" or better	All
	MET-130	Industrial Electrical Systems	4	MAT-035 with a "C" or better	All
	MET-140A	Intro to Programmable Logic Controllers I	2	MET-130	All

SEMESTER 2 – Spring (20 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MAT-160	College Algebra	3	MAT-110	All & OL
	COM-121*	English Composition I	3	COM-098 or EAP-050 and EAP-060 (C or better)	All & OL
	MET-140B	Intro to Programmable Logic Controllers II	2	MET-140A	All
	MET-150	Industrial Mechanics II	6	MET-120	All
	MET-160	Rotating Electrical Machines	3	MET-130	All
	MET-101	Fundamentals of Shop Machinery	3	MAT-035 with a "C" or better	All

SEMESTER 3 – Fall (16 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	COM-141	Technical Writing	3	COM-121 or COM-122 ("C" or better)	All & OL
	PHY-240	Physics I	4	COM 098 or EAP 050 and EAP 060 MAT 160 or MAT 110 and EUT 110	Fall/Spring
	MET-220	Advanced PLCs (Control Logix or S7)	4	MET-140A and MET-140B	All
	MET-200	Robotics and Motion Control	4	MET-140A, MET-140B, MET-160	All
	MET-111	Fundamentals of Manufacturing	1	MAT-035 with a "C" or better	All

SEMESTER 4 – Spring (16 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	Humanities	ART-111 or 201, COM-110, ENG-125*, PHI-271*, or PHI-275*	3	COM-098 or EAP-050 and EAP-060 ("C" or better)	All & OL
	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	CHE-120 if taking BIO-150 or CHE 150 PHY-240 if taking PHY-245	All & OL
	SOC-130*	Sociology	3	COM-098 or EAP-050 and EAP-060	All & OL
	MET-210	Process Control & Instrumentation	3	MET-130, MAT-160	All
	MET-240	Mechatronics Application Project	3	MET-150, MET-200, MET-210, MET-220	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.

Date created: September 2019	Updated: June 2022	All = Fall/Spring/Summer OL = Online
------------------------------	--------------------	---

Program:	MET.AAS Mechatronics Engineering Technology (69 credits)	Division:	STEM
Student:		ID#:	Catalog Year: 2022-23

Advisor's Contact Information:

	Office	Phone	Extension	E-Mail
Bonne Spayd	T109	610-372-4721	ext. 6207	Bspayd@racc.edu
Judy Vecchio	T108	610-372-4721	ext. 5716	jvecchio@racc.edu

Date created: September 2019	Updated: June 2022	All = Fall/Spring/Summer OL = Online
------------------------------	--------------------	---