

Program:	MET.AAS Mechatronics Engineering Technology (69 credits)		Division: STEM
Student:		ID#:	Catalog Year: 2026-2027

Developmental Education Courses (if required)								
☐	EAP-018	Intensive Academic English	☐	MAT-020	Basics of College Math	☐	COM-017/019	Foundational Reading/Writing
☐	EAP-020/040	EAP Reading I and Writing I	☐	MAT-03_		☐	COM-097	Academic Literacy I
☐	EAP-050/060	EAP Writing II and Reading II				☐	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 (17 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Gen Ed	CSS-103*	College Success Strategies	3		All & OL
Gen Ed	IFT-110*	Microcomputer Applications	3	MAT 020; COM-097 or EAP-040 and EAP-020 or by placement	All
Major	MET-120	Industrial Mechanics I	5	MAT-035 with a "C" or better	All
Major	MET-130	Industrial Electrical Systems	4	MAT 030 or MAT-035 with a "C" or better or by placement test	All
Major	MET-140A	Intro to Programmable Logic Controllers I	2	MET-130	All

SEMESTER 2 – Spring (20 credits)

Legend: All = Fall/Spring/Summer; OL = Online

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

SEMESTER 3 – Fall (16 credits)

Legend: All = Fall/Spring/Summer; OL = Online

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

SEMESTER 4 – Spring (16 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Gen Ed	Humanities	ART-111, ART-201, COM-110, ENG-125*, MUS-221, PHI-271*, PHI-275* or THR-120	3	COM-098 or EAP-050 and EAP-060	All & OL
Elective	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
Gen Ed	SOC-130*	Sociology	3	COM-098 or EAP-050 and EAP-060	All & OL
Major	MET-210	Process Control & Instrumentation	3	MET-130, PHY-150	All
Major	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.