



**Program: Engineering Transfer AS 60 credits** **Division: Science/Math**

Student:	ID#:	Catalog Yr: 2020-2021
----------	------	--------------------------

**GENERAL EDUCATION REQUIREMENTS – AS (34 credits)**

√	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code^
	CSS-103*	College Success Strategies	3	X		All & OL	
	COM-121 *	English Composition I	3	X	COM-098 or EAP-050 and EAP-060	All & OL	WC/IL
	COM-151*	Fundamentals of Speech	3	X	COM-098 or EAP-050 and EAP-060	All & OL	OC
	COM-141 or COM-221*	Technical Writing(recommended) or English composition	3	X	COM-121 or COM-122 (grade of C or higher)	All & OL	OC

**HUMANITIES: 3 credits**

<b>Select 1 course from the following:</b>							
	ART-111	Introduction to Drawing	3	X	COM-098 or EAP-050 and EAP-060	All	AU
	ART-201	Art Appreciation			COM-121 or COM-122	All & OL	AU
	COM-110	Introduction to Creative Writing			COM-098 or EAP-050 and EAP-060	All	AU
	ENG-125*	Introduction to Literature			COM-121 or COM-122 (grade of C or higher)	All & OL	AU
	PHI-271*	Introduction to Philosophy			COM-121 or COM-122	All & OL	AU
	PHI-275*	Introduction to Ethics			COM-121 or COM-122	All	AU

**MATHEMATICS: 8 credits**

	MAT-220	Calculus I	4	X	MAT-180** or placement by assessment	FA & SU-OL	QR/CA
	MAT-221	Calculus II	4	X	MAT-220	SP & SU-OL	QR/CA

**NATURAL/PHYSICAL SCIENCES: 8 credits**

	CHE-150	Chemistry I	4	X	CHE-120 or high school chemistry with a "C" or better, MAT-110 with a "C" or better (see advisor to discuss readiness for CHE-150)	FA/SP	SR
	PHY-250	College Physics I	4	X	MAT-220, PHY-120 or high school physics with a "C" or better	SP	SR

**SOCIAL SCIENCES: 3 credits**

<b>Select 1 course from the following:</b>							
	ANT-140	Anthropology	3	X	COM-098 or EAP-050 and EAP-060	All & OL	CU
	HIS-110	US History I			COM-098 or EAP-050 and EAP-060	F/Su/OL	CU
	HIS-115	US History II			COM-098 or EAP-050 and EAP-060	Sp & OL	CU
	PSY-130*	General Psychology			COM-098 or EAP-050 and EAP-060	All & OL	CU
	SOC-130*	Sociology			COM-098 or EAP-050 and EAP-060	All & OL	CU
	BUS 200 or BUS 201	Macro-economics(recommended) or Micro-economics			COM-121 or COM-122 and MAT-020 or appropriate placement test score	All	CU

\*Sections of these courses offered in the Honors Program, check <https://www.racc.edu/academics/honors-program> for details.

\*\*Completion of both MAT 160 and MAT 165 will fulfill prerequisite or graduation requirement that requires MAT 180.  
**Online (OL)** may not be offered every semester. Please check the schedule.



Program: Engineering Transfer AS				Division: STEM			
Student:				ID#:			

MAJOR COURSES (18 credits)							
√	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code <sup>^</sup>
	MAT-222	Calculus III	4	X	MAT-221	FA & SU-OL	SR
	MAT-282	Ordinary and Partial Differential Equations	4	X	MAT-221	SP	SR
	EGR-104	Introduction to Engineering Design	3	X	MAT-110, COM-098 or EAP-050 and EAP-060	FA	SR
	EGR-110	Programming for Engineers (with MATLAB)	3	X	MAT-220	SP	SR
	PHY-255	College Physics II	4	X	MAT 221, PHY-250	FA	SR

ELECTIVES (8 credits)							
√	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code <sup>^</sup>
	BIO-150	Biology I	4		MAT-030, COM-098 or EAP-050 and EAP-060 and CHE-120 or high school Chemistry with a "C" or better	All	SR
	BIO-155	Biology II	4		BIO-155 with a "C" or better	FA/SP	SR
	CHE-155	Chemistry II	4		CHE-150 with a "C" or better, MAT-160 or MAT-180	SP	SR
	CHE-250	Organic Chemistry	4		CHE-150 with a "C" or better	SP	SR
	EGR-102	Shop Machinery and Engineering Graphics	3		MAT-035	FA/SP	SR
	MET-111	Fundamentals of Manufacturing	1		MAT-035 with a "C" or better (or appropriate placement test score)	FA	SR
	MET-130	Industrial Electrical Systems	5		MAT-110	FA/SP	SR
	MET-140A	Introduction to PLC's I	2		MET-130	FA/SP	SR
	MET-140B	Introduction to PLC's II	2		MET-140A	FA/SP	SR

<sup>^</sup> 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

**Transfer Information:**

**Advisor's Contact Information:**

**Name:** Mrs. Patricia Mejabi

**Phone:** 610-372-4721, ext. 5181

**Office:** B402

**E-Mail:** [pmejabi@racc.edu](mailto:pmejabi@racc.edu)