

Pr	ogram: Na	noscience Technology AAS	(66 cr	edits)	Division: Science/	Math							
St	Student:			ID#:	Catalog Yr:	J. J							
				2020-2021									
GENERAL EDUCATION REQUIREMENTS –AAS (24 credits)													
V	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code^						
	CSS-103*	College Success Strategies	3	Х		All & OL							
	COM-121*	English Composition I	3	х	COM-098 or EAP-050 and EAP-060 (C or better)	All & OL	WC/IL						
	IFT-110*	Microcomputer Applications	3	Х	MAT-020	All & OL	TC						
HU	JMANITIES: 6	credits											
	Select 1 course from the following:												
	COM-141	Technical Writing	3		COM-121 or COM-122 (C or better)	All	OC						
	Select 1 cours	e from the following:											
	ART-111	Introduction to Drawing	3		COM-098 or EAP-050 and EAP-060	All	AU						
	ART-201	Art Appreciation	3		COM-121 or COM-122	All & OL	AU						
	COM-110	Intro. to Creative Writing	3	x	COM-098 or EAP-050 and EAP-060	All	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	All	AU						
M	ATHEMATICS:	3 credits											
	MAT-165	Trigonometry	3	Х	MAT-160	All & OL	QR/CA						
NA	TURAL/PHYSI	CAL SCIENCES: 3 credits											
	ENV-130*	Environment	3	х	COM-098 or EAP-050 and EAP-060 or appropriate score on placement test	All & OL	SR						
SC		S: 3 credits (Select 1 course)											
	ANT-140	Cultural Anthropology	3	Х	COM-098 or EAP-050 and EAP-060	All & OL	CU						
	HIS-110	US History I	3	Х	COM-098 or EAP-050 and EAP-060	F & OL	CU						
	HIS-115	US History II	3	Х	COM-098 or EAP-050 and EAP-060	Sp & OL	CU						
	PSY-130*	General Psychology	3	Х	COM-098 or EAP-050 and EAP-060	All & OL	CU						
	SOC-130*	Sociology	3	Х	COM-098 or EAP-050 and EAP-060	All & OL	CU						

*Sections of these courses offered in the Honors Program, check <u>https://www.racc.edu/academics/honors-program</u> 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	R/CA Quantitative Reasoning/Critical Analysis			
CU	Cultural Understanding			
AU	AU Aesthetic Understanding			
SR	Scientific Reasoning			
TC Digital/Technical Competence				



	ogram: Nar udent:	noscience Technology AAS (Division: Science/Math ID#:									
MAJOR REQUIREMENTS (42 credits)												
V	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Grade					
	MAT-210	Statistics	3	x	Student can take MAT-030, MAT-032, MAT-034 or MAT-035. MAT-035 is needed for higher math and is recommended. COM-098 or EAP-050 and EAP-060	All & OL						
	BIO-150	Biology I	4	x	MAT-030, COM-098 or EAP-050 and EAP- 060 and CHE-120 or high school Chemistry with a "C" or better	All						
	CHE-150	Chemistry I	4	x	CHE 120 or high school chemistry with a C or better, MAT 110 with a C or better	Fall/Sp						
	CHE-155	Chemistry II	4	х	CHE-150 with a C or better and MAT- 160 or MAT-180	Spring						
	PHY-150	Applied Physics	4	Х	MAT 110	Fall/Sp						
	NSC-180	Electronics for Nanoscience	4	Х	CHE 150, MAT 165, PHY 150 or PHY 245	Spring						
	NSC-200	Nanofabrication Seminar	1	Х	Approval of Nanoscience Advisor	varies						
		he following courses are taught at the Penn State Nanofabrication facility as the capstone semester for rogram (consult advisor for semester information):										
	NSC-211	Materials, Safety & Equipment Overview for Nanofabrication	3	x	Approval of Nanoscience Advisor							
	NSC-212	Basic Nanofabrication Process	3	х	Approval of Nanoscience Advisor							
	NSC-213	Thin Films in Nanofabrication	3	Х	Approval of Nanoscience Advisor							
	NSC-214	Lithography for Nanofabrication	3	х	Approval of Nanoscience Advisor							
	NSC-215	Materials Modification in Nanofabrication	3	х	Approval of Nanoscience Advisor							
	NSC-216	Characterization, Packaging and Testing of Nanofabricated Structures	3	x	Approval of Nanoscience Advisor							

Advisor's Contact Information: Name: Pat Mejabi Office: B403 Phone: 610-372-4721, ext. 5181 E-Mail: pmejabi@racc.edu