

Pr	ogram: Na	noscience Technology AAS	(66 cr	edits)	Division: Science/Ma	ath					
Student:						Catalog Yr:					
				JIREMENTS –AAS (24 credits)							
V	Course#	Course Name	Cr.	Req.	Pre-requisites	Sem.	Code^				
	ORI-103*	College Success Strategies	3	X		All & OL					
	COM-121*	English Composition I	3	Х	COM-061 or ESL-060 and COM-051 or ESL-05 (C or better)	O All & OL	WC/IL				
	IFT-110*	Microcomputer Applications	3	Х	MAT-020 and COM-061 or ESL-060	All & OL	TC				
HU	JMANITIES: 6	credits									
	Select 1 cours	Select 1 course from the following:									
	COM-141	Technical Writing	3		COM-121 or COM-122 (C or better)	F/Sp & OL	OC				
	Select 1 course from the following:										
	ART-111	Introduction to Drawing	3		COM-061 or ESL-060 and COM-051 or ESL-050	All	AU				
	ART-201	Art Appreciation	3		COM-121 or COM-122	All & OL	AU				
	COM-110	Intro. to Creative Writing	3	x	COM-061 or ESL-060 and COM-051 or ESL-050	Fall/Sp & OL	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	Fall/Sp	AU				
M	ATHEMATICS:	3 credits									
	MAT-165	Trigonometry	3	Х	MAT-160	All & OL	QR/CA				
NA	TURAL/PHYSI	CAL SCIENCES: 3 credits	r	•		-	1				
	ENV-130*	Environment	3	Х	COM-061	All & OL	SR				
SOCIAL SCIENCES: 3 credits (Select 1 course)											
	ANT-140	Cultural Anthropology	3	Х	COM-061 or ESL-060 and COM-051 or ESL-050	All & OL	CU				
	HIS-110	US History I	3	Х	COM-061 or ESL-060 and COM-051 or ESL-050	F & OL	CU				
	HIS-115	US History II	3	Х	COM-061 or ESL-060 and COM-051 or ESL-050	Sp & OL	CU				
	PSY-130*	General Psychology	3	Х	COM-061 or ESL-060 and COM-051 or ESL-050	All & OL	CU				
	SOC-130*	Sociology	3	Х	COM-061 or ESL-060 and COM-051 or ESL-050	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.

This course fulfills the Core Competency for:				
Written Communication/Information Literacy				
Oral Communication				
Quantitative Reasoning/Critical Analysis				
Cultural Understanding				
Aesthetic Understanding				
Scientific Reasoning				
Digital/Technical Competence				



	ogram: Nar udent:	noscience Technology AAS (		AB.NT.AAS) Division: Science/Math								
MAJOR REQUIREMENTS (42 credits)												
٧	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. However, MAT- 035 is needed for higher math and is recommended. COM-061 or ESL-060, COM-051 or ESL-050	All & OL						
	BIO-150	Biology I	4	х	MAT-030, COM-061 or ESL-060 , COM-051 or ESL-050 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						
	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	COM 061 or ESL 060, MAT 110	Fall/Sp						
	NSC-180	Electronics for Nanoscience	4	Х	CHE 150, MAT 165, PHY 150 or PHY 245	Fall						
	NSC-200	Nanofabrication Seminar	1	Х	Approval of Nanoscience Advisor	varies						
		The following courses are taught at the Penn State Nanofabrication facility as the capstone semester for th program (consult advisor for semester information):										
	NSC-211	Materials, Safety & Equipment Overview for Nanofabrication	3	х	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:

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