Program:	LAB.NT.CC Nanoscience Technology CC (48	Division: STEM	
Student:	ID#:		Catalog Year: 2023-2024

Dev	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.

SEN	SEMESTER I – Fall (10 credits)							
٧	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters			
	MAT-165	Trigonometry	3	MAT-160	All			
	IFT-110*	Microcomputer Application	3	MAT 020; COM 098 or EAP 060 & EAP 050	All			
	CHE-150	Chemistry I	4	CHE 120 or high school chemistry with a C or better, MAT 110 with a C or better	Fall/Sp			

SEN	SEMESTER 2 – Spring (11 credits)							
٧	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters			
	CHE-155	Chemistry II	4	CHE-150 and MAT-160 or MAT-180	Spring			
	MAT-210	Statistics	3	MAT 030, MAT 032, MAT 034 OR MAT 035 with "C" or better COM 098 OR EAP 060 and EAP 050	All & OL			
	PHY-150	Applied Physics	4	COM-098 or EAP-050 and EAP-060; MAT 110	Fall/Sp			

SEN	SEMESTER 3 – Fall (9 credits)						
٧	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters		
	NSC-180	Electronics for Nanoscience	4	CHE 150, MAT 165, PHY 150 or PHY 245	Spring		
	NSC-200	Nanofabrication Seminar	1	Approval of Nanoscience Advisor	Varies		
	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		

SPF	SPRING SEMESTER 4 – Spring (18 credits) THESE COURSES ARE TAKEN AT PENN STATE MAIN CAMPUS						
٧	√ Course# Course Name Cr. Pre-requisites/ Co-requisites		Pre-requisites/ Co-requisites	Semesters			
	NSC-211	Materials, Safety & Equipment Overview for Nanofabrication	3	Approval of Nanoscience Advisor			
	NSC-212	Basic Nanofabrication Process	3	Approval of Nanoscience Advisor			
	NSC-213	Thin Films in Nanofabrication	3	Approval of Nanoscience Advisor			
	NSC-214	Lithography for Nanofabrication	3	Approval of Nanoscience Advisor			
	NSC-215	Materials Modification in Nanofabrication	3	Approval of Nanoscience Advisor			
	NSC-216	Characterization, Packaging and Testing of Nanofabricated Structures	3	Approval of Nanoscience Advisor			

This program, in conjunction with the Pennsylvania State University Nanofabrication Manufacturing Technology Program, prepares students for careers as skilled technicians for manufacturers utilizing nanofabrication technology. This discipline includes biotechnology, automation, miniaturization, integration, optics, robotics and information systems. This program is designed for students who have already earned a college degree and wish to expand their education.

Date created: September 2019	Updated: May 2023	All = Fall/Spring/Summer
		OL = Online

^{*}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.