

Program:	LAB.NT.AAS Nanoscience Technology AAS (66 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 (16 credits)

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

Course Type	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	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
Major	CHE-150	Chemistry I	4	CHE 120 (or high school chemistry C or better), MAT 110 (C or better)	Fall & Spring
Gen Ed	CSS-103*	College Success Strategies	3		All & OL
Gen Ed	COM-121*	English Composition I	3	COM-098 or EAP-050 and EAP-060 with a "C" or better or by placement	All & OL
Gen Ed	IFT-110*	Microcomputer Applications	3	MAT-020; COM 097 or EAP 040 & EAP 020 or by placement	All & OL

SEMESTER 2 – Spring (13 credits)

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

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	CHE-155	Chemistry II	4	CHE-150 with a C or better and MAT-160 or MAT-180	Spring
Gen Ed	COM-141	Technical Writing	3	COM-121* with "C" or better	All
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; COM-121* with "C" or better	All & OL
Gen Ed	MAT-165	Trigonometry	3	MAT-160	All & OL

SEMESTER 3 – Fall (10 credits)

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

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	PHY-150	Applied Physics	4	MAT 110 ; COM-098 or EAP-050 and EAP-060	Fall & Spring
Gen Ed	ART-201	Art Appreciation		COM-121* with "C" or better	All & OL
Gen Ed	ENV-130*	Environment	3	COM-098 or EAP-050 and EAP-060	All & OL
Gen Ed	Social Science	ANT-140, HIS-110/115, PSY-130*, SOC-130*	3	COM-098 or EAP-050 and EAP-060; COM-121* with "C" or better	All & OL

SEMESTER 4 – Spring (9 credits)

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

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	BIO-150	Biology I	4	MAT-030, COM-098 or EAP-050 and EAP-060 and CHE-120	All
Major	NSC-180	Electronics for Nanoscience	4	CHE 150, MAT 165, PHY 150 or PHY 245	Spring
Major	NSC-200	Nanofabrication Seminar	1	Approval of Nanoscience Advisor	varies

The following 3-credit courses are taught at the Penn State Nanofabrication facility as the capstone semester for the program (consult advisor for semester information): **(18 credits)**

Major	NSC-211	Materials, Safety & Eq. Overview for NF	NSC-212	Basic Nanofabrication Process
Major	NSC-213	Thin Films in Nanofabrication	NSC-214	Lithography for Nanofabrication
Major	NSC-215	Materials Modification in NF	NSC-216	Characterization, Pkg. and Testing of NF Structures

*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.