Program:	LAB.NT.AAS Nanoscience Technology AAS (66 credits)		Division: STEM
Student:		ID#:	Catalog Year: 2023-2024

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 I – Fall (16 credits)					
√	**Course#**	**Course Name**	**Cr.**	**Pre-requisites/ Co-requisites**	**Semesters**
	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
	CHE-150	Chemistry I	4	CHE 120 (or high school chemistry C or better), MAT 110 (C or better)	Fall/Sp
	CSS-103*	College Success Strategies	3		All & OL
	COM-121*	English Composition I	3	COM-098 or EAP-050 and EAP-060 (C or better)	All & OL
	IFT-110*	Microcomputer Applications	3	MAT-020; COM 098 or EAP 060 & EAP 050	All & OL

SEMESTER 2 – Spring (13 credits)					
√	**Course#**	**Course Name**	**Cr.**	**Pre-requisites/ Co-requisites**	**Semesters**
	CHE-155	Chemistry II	4	CHE-150 with a C or better and MAT-160 or MAT-180	Spring
	COM-141	Technical Writing	3	COM-121 or COM-122 (C or better)	All
	Humanities	ART-111, ART-201, CON-110, ENG-125*, PHI-275*, PHI-275*	3	COM-098 or EAP-050 and EAP-060; COM-121/2	All & OL
	MAT-165	Trigonometry	3	MAT-160	All & OL

SEMESTER 3 – Fall (10 credits)					
√	**Course#**	**Course Name**	**Cr.**	**Pre-requisites/ Co-requisites**	**Semesters**
	PHY-150	Applied Physics	4	MAT 110	Fall/Sp
	ART-201	Art Appreciation		COM-121 or COM-122	All & OL
	ENV-130*	Environment	3	COM-098 or EAP-050 and EAP-060	All & OL
	Social Science	ANT-140, HIS-110/115, PSY-130*, SOC-130*	3	COM-098 or EAP-050 and EAP-060; COM-121	All & OL

SEMESTER 4 – Spring (9 credits)					
√	**Course#**	**Course Name**	**Cr.**	**Pre-requisites/ Co-requisites**	**Semesters**
	BIO-150	Biology I	4	MAT-030, COM-098 or EAP-050 and EAP-060 and CHE-120	All
	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

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

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

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