Genesee Community College

653: Nanotechnology A.A.S.

SEMESTER COURSE PLANNING WORKSHEET

FALL 2018 to CURRENT

Suggested First Semester	Credits
ENG101 (By Placement)	3
BIO115	4
CHE101	4
NST100	3
MAT121 or higher (excluding MAT 129)	3
Total	17

Suggested Second Semester	Credits
ENG102 or ENG106	3
PHY122	4
CHE102	4
HISTORY ELECTIVE	3
Total	14

Suggested Third Semester	Credits
BIO206 or BIO 205	4
SOCIAL SCIENCE	3
ARTS/HUMANITIES/FOREIGN LANGUAGE	3
HED/PED/ATH	2
NST201	3
Total	15

Suggested Fourth Semester	Credits
NST202 (Taken at ECC)	3

NST203 (Taken at ECC)	3
NST204 (Taken at ECC)	3
NST205 (Taken at ECC)	3
NST206 (Taken at ECC)	3
Total	15

653: General Curriculum Information

Proficiency Requirements: As outlined in Procedure 321- Placement and Proficiency Requirements (see GCC Placement and Proficiency Guide for details), all students are required to demonstrate proficiency in reading, math, and writing skills prior to earning a college degree or certificate from Genesee Community College.

Prerequisites – Students may need to take prerequisite courses before registering for some of the required courses.

NST202, NST203, NST204, NST205, NST206: Students MUST take these courses at Erie Community College – North Campus as NS 202, NS 203, NS 204, NS 205, NS 206.

653: Nanotechnology A A S Degree Requirements Table

FALL 2018 to CURRENT

ITEM	REQUIREMENT	CREDITS
1	**BASIC COMMUNICATION**	**6**
1a	ENG101 College Composition	3 of 6
2a	ENG102 Composition in the Natural and Social Sciences or ENG 106 Technical Writing	3 of 6
2	**HUMANITIES or THE ARTS or FOREIGN LANGUAGE**	**3**
2a	Select one: ***SUNY Approved Fine Art, Humanities or Foreign Language course***	3 of 3
3	**SOCIAL SCIENCE**	**3**
3a	Select: ***SUNY Approved Social Science***	3 of 3
4	**HISTORY**	**3**
4a	Select from: HIS 101, 102, 104, 105, 203, 204 or GEO 101	3 of 3
5	**NATURAL SCIENCE**	**20**
5a	BIO115 General Biology 1	4 of 20
5b	CHE101 General Chemistry 1	4 of 20
5c	CHE102 General Chemistry 2	4 of 20
5d	BIO206 General Microbiology or BIO205 Genetics	4 of 20
5e	PHY122 College Physics 2	4 of 20
6	**MATHEMATICS**	**3**
6a	MAT121 Technical Math or higher (excluding MAT 129)	
7	**NANOTECHNOLOGY**	**21**
7a	NST100 Introduction to Nanotechnology	3 of 21
7b	NST201 Materials, Safety, and Equipment Overview for Nanotechnology	3 of 21
7c	NST202 Basic Nanotechnology Processes (Taken at ECC)	3 of 21
7d	NST203 Characterization of Nanotechnology Structures and Materials (Taken at ECC)	3 of 21
7e	NST204 Materials in Nanotechnology (Taken at ECC)	3 of 21
7f	NST205 Patterning for Nanotechnology (Taken at ECC)	3 of 21
7g	NST206 Vacuum Systems and Nanotechnology Applications	3 of 21

ITEM	REQUIREMENT	CREDITS
	(Taken at ECC)	
8	**HED/PED/ATH**	**2**
8a	Select 2 credits from any HED, PED, ATH option	2 of 2
9	**TOTAL**	**61**
10	Reading and Math Proficiency Required	0
11	Minimum QPI: 2.00	0