EDINBORO UNIVERSITY OF PENNSYLVANIA

CURRICULUM REQUIREMENTS

Bachelor of Science

Major: Physics - Material Science Concentration (0416)

Student:_____ **ID#: @**_____ Term:_____

I. GENERAL EDUCATION					**(46 SH)**
		SH	**Grade**	**Date**	
A. Skills					**(14 SH)**
ENGL101	College Writing Skills	3			
ENGL102	Writ/Research Skills	3			
MATH211	Calculus I	4			
CHEM241	Principles of Chemistry II	4			
B. Core					**(22 SH)**
1	**Artistic Expression**	**(3 SH)**			
2	**World Civilizations**	**(3 SH)**			
3	**American Civilizations**	**(3 SH)**			
4	**Human Behavior**	**(3 SH)**			
5	**Cult Div. & Social Plur**	**(3 SH)**			
6	**Ethics**	**(3 SH)**			
7	**Natural Science**	**(4 SH)**			
	CHEM240 Principles of Chem I	4			
C. Distribution					**(10 SH)**
1	**Humanities & Fine Arts**	**(3 SH)**			
2	**Soc & Behav Sciences**	**(3 SH)**			
3	**Science & Math**	**(4 SH)**			
	CHEM330 Organic Chem I	4			

THIS IS NOT AN OFFICIAL TRANSCRIPT OF RECORD.

Note: At least 42 semester hours must consist of advanced coursework.

*Credits for these courses are included in the General Education area and are not counted here.

** Students must attain a minimum grade of "C" in all section II & III courses.

(Approved: May 2019)

(Effective: Summer 2019)

II. FOUNDATION IN PHYSICS & MATERIALS**					**(35 SH)**
		SH	**Grade**	**Date**	
PHYS320	University Physics I	4			
PHYS321	University Physics II	4			
PHYS322	Physical Measurements I	1			
PHYS323	Physical Measurements II	1			
PHYS325	Modern Physics	3			
PHYS415	Solid State Physics	3			
PHYS441	Thermal Physics	3			
PHYS449	Math. Methods in Physics	3			
MASC210	Intro to Materials Science	4			
MFGT105	Engineering Materials	3			
MFGT306	Strength of Materials Lab	3			
Choose one of the following:					
PHYS420	Mechanics I	3			
PHYS430	Elect. & Magnetism I	3			
PHYS453	Quantum Physics	3			
ENGR303	Engineering Statics	3			

III. REQUIRED SUPPORTING COURSES**					**(25 SH)**
		SH	**Grade**	**Date**	
MATH211	Calculus I	*			
MATH212	Calculus II	4			
MATH311	Calculus III	4			
MATH275	Linear Algebra	3			
CHEM240	Principles of Chemistry I	*			
CHEM241	Principles of Chemistry II	*			
CHEM530	Physical Chemistry I	4			
CHEM533 or CHEM420		3			
CHEM330	Organic Chem I	*			
CHEM331	Organic Chem II	4			
CSCI130	Principles of Programming I	3			

IV. FREE ELECTIVES				**(14 SH)**
Recommended to enhance preparation for career in materials science: CHEM280, ENGR201, ENGR304, PHYS312)				
	SH	**Grade**	**Date**	

TOTAL	**(120 SH)**