

Nanofabrication Manufacturing Technology

Effective Fall 2012

AAS Degree #4690 (71-72 credits)

Technology Division NAME: _____ Advisor: _____



Developmental Courses as determined through College Placement Testing*:

* Please note: 0-level courses do not transfer and do not count toward graduation requirements; however, they are required to enter college level courses if needed based on placement scores..

Any ENGL ESL classes* ENGL 002* ENGL 050* HD 107* MATH 020*
 ENGL 001* ENGL 003* ENGL 051* MATH 010* MATH 051*

Requirements:

<u>SUBJECT NUMBER</u>	<u>DESCRIPTION</u>	<u>PRE or CO-REQUISITE</u>	<u>CREDITS</u>
First Semester			
___ CAD 154	Computer-Aided Drafting and Design		3
___ ELEC 101	Equipment Utilization	Co: ELEC 100, GTEC 111, MATH 051	1
___ ELEC 125 ¹	Introduction to PC Technology		3
___ ENGL 101	Composition I	Pre: ENG 051 or English Placement Test	3
___ GTEC 111	General Technology Orientation		1
___ MATH 103 ²	College Algebra	Pre: Math Placement Test	3
	Total Credits		14
Second Semester			
___ ELEC 111	AC/DC Circuits I	Pre: ELEC 101 Co: MATH 103	4
___ ENGL 102 or ENGL 104 ³	Composition II Report and Technical Writing	Pre: ENGL 051 or above Pre: ENGL 051 or above	3
___ MATH 104	Trigonometry	Pre: MATH 103	3
___ COMM 101 ⁴ or COMM 203	Effective Speaking or Interpersonal Communication	Pre: Eligibility for ENGL 101 Pre: Eligibility for ENGL 101	3
___ _____	Free Elective		3
___ _____	Physical Education Elective ⁶		1
	Total Credits		17
Third Semester			
___ _____	Core A Elective ⁷		3
___ _____	Core B Elective ⁷		3
	Total Credits		6
Fourth Semester			
___ CHEM 100 or CHEM 101	Principles of Chemistry General Inorganic Chemistry I	Pre: MATH 051 Pre: CHEM100, ENGL101, MATH 103	3 (4)
___ ELEC 106	Fundamentals of Electronics	Pre: ELEC 111	4
___ ELEC 108	Applied Digital Electronics	Co: MATH 051	3
___ MATH 202	Statistics	Pre: Pre: Math Placement Test	3
___ PHYS 113	Introduction to Physical Science	Pre: Pre: Math Placement Test	3
	Total Credits		16-17
Fifth Semester SPRING & SUMMER ONLY (Capstone Semester at EMPRL) State College, PA			
___ NFAB 211	Material, Safety & Equipment Overview	Pre: Restricted. See Counselor.	3
___ NFAB 212	Basic Nanofabrication Procedures	Pre: Restricted. See Counselor.	3
___ NFAB 213	Thin Films	Pre: Restricted. See Counselor.	3
___ NFAB 214	Lithography	Pre: Restricted. See Counselor.	3
___ NFAB 215	Materials Modification	Pre: Restricted. See Counselor.	3
___ NFAB 216	Characterization, Packaging & Testing	Pre: Restricted. See Counselor.	3
	Total Credits in one term		18
	Total Program Credits		71-72

Students are encouraged to see their advisor
To develop and review their individual educational plans.

Program Notes:

1. If you are not well-versed at MS OFFICE, take CIS 105 as a substitute.
2. All students must take and pass the math placement test out of MATH 051 before taking MATH 103. Do not skip math and electronic courses unless you are taking 3 years or more to finish.
3. ***PSU HBG will not transfer ENGL 102 – PLEASE take ENGL 104.***
4. ***PSU HBG will not transfer COMM 203 – PLEASE take COMM 101.***
5. One 3 credit Diversity (D) course is required for graduation. General Education Core Requirements can be used to complete this requirement. See HACC website, www.hacc.edu for current list of Diversity courses. Make sure student takes a Diversity course as one of their transfer electives or as an appropriate Core A or Core B that will also work for their transfer college.
6. One 1 credit PE/Wellness (W) course is required. See HACC website, www.hacc.edu for current list of Wellness courses.
7. Core elective requirements may vary each academic year. Please go to www.hacc.edu to view a current list.
8. Some Electronic and technical courses are not offered in Summer and are only offered in semester shown. However, Physics, Computer Science, English, and many Electives **are offered in summer**.

Program Contact Information:

Faculty Advisor: Bill Forney 221-1300 Ext 1402 wforney@hacc.edu – Midtown II Room MT301C

Faculty Counselor: Janet Rich jerich@hacc.edu (718-0328 Ext. 3513 –York Campus, RM 102L)

Faculty Counselor: Jeffrey C. Newhard jnewhar@hacc.edu (221-1300 Ext. 1421 HBG Campus, Midtown II Room 112A)

Faculty Counselor: Jennifer Alleman jallema@hacc.edu (358-2973 –Lancaster Campus, RM 221)

Faculty Counselor: Ann Burris amburris@hacc.edu (270-6319 –Lebanon Campus, D104H)

Faculty Counselor: Mary Arnold mfarnold@hacc.edu (337-3855 Ext. 3033 –Gettysburg Campus, 101D)

Students are encouraged to see their advisor
To develop and review their individual educational plans.