

## STUDENT ACADEMIC PLAN

<b>Ivy Tech Community College</b>		<b>School of Applied Science &amp; Engineering Technology</b>								
<b>Northwest</b>		<b>Pre-Engineering (ENGR) - AS</b>								
FIRST NAME:			ID#		H/M PHONE:					
LAST NAME:			E-MAIL		WORK PHONE:					
Application: YES ___ NO ___			TRANSCRIPT: HS ___ GED ___ COLLEGE ___							
<b>Comp</b>	<b>Reading</b>		<b>Comp</b>	<b>Writing</b>		<b>Comp</b>	<b>Math</b>	plan	taken	grade
49-79	ENGL 083		32-69	ENGL 093		Prealgebra 22+	MATH 015			
80-100	NONE		70-100	ENGL 111		Algebra 24+	MATH 023			
						Algebra 35+	MATH 035			
						Algebra 52+	MATH 043			
							MATH 136			
							MATH 137			

### CURRICULUM SCHEDULE

**Effective Fall '11**

Course	Name	CR	Prerequisites	Semester		
				plan	taken	grade
<b>Semester I (FALL) - 15 credits</b>						
CHEM 105	General Chemistry I	5	MATH 035or043 & ENGL 083&093			
ENGR 116	Geometric Modeling for Visualization	2	MATH 015 or MATH 023			
ENGR 140	Engineering Software Tools I	3	MATH 136 & MATH 137			
^^IVYT 1__		1 or 3				
MATH 211	Calculus I	4	MATH 136 & MATH 137			
<b>Semester II (SPRING) - 14 credits</b>						
ENGR 160	Engineering Software Tools II	3	MATH 136 & MATH 137			
ENGR 190	Intro to Engineering Design	2	MATH 136 & MATH 137			
MATH 212	Calculus II	4	MATH 211			
PHYS 220	Mechanics	5	MATH 211			
<b>Summer Semester - 6 credits</b>						
COMM 101	Fundamentals of Public Speaking	3	ENGL 083 & ENGL 093			
MATH 265	Linear Algebra	3	MATH 212			
<b>Semester III (FALL) - 16 credits</b>						
ENGR 260	Vector Mechanics-Statics	3	MATH 212			
ENGR 251	Electrical Circuits I	4	MATH 212			
MATH 261	Multivariate Calculus	4	MATH 212			
PHYS 221	Heat, Electricity, and Optics	5	MATH 212 & PHYS 220			
<b>Semester IV (SPRING) - 15-16 credits</b>						
ENGL 111	English Composition	3	ENGL 083 & ENGL 093			
^ENGR 261	Dynamics	3	ENGR 260			
MATH 264	Differential Equations	3	MATH 261			
*_____		3 or 4				
**_____		3				

\* Elective course  
 \*\* Humanities/Social Sciences Elective  
 \*\*\* IVYT 101 or IVYT 120  
 ^ Capstone Course  
 ^^ IVYT elective course is required if program ready; IVYT 101 or IVYT 120 is required in the first semester if one or two ASA courses needed; IVYT 120 is required in the first semester if three or more ASA courses needed.

The School reserves the right to change the schedule due to enrollment considerations, program revisions, or unforeseen circumstances. It is the student's responsibility to meet all prerequisites as outlined by the program.

Projected Completion Date: \_\_\_\_\_

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

<b>Elective Courses</b>						
Course	Name	CR	Prerequisites	Semester		
				plan	taken	grade
ENGR 252	Electrical Circuits II	4	ENGR 251			
ENGR 270	Engineering Project Management	3	After 45 cr.			