

# PRE-ENGINEERING

ASSOCIATE OF SCIENCE



<b>Name:</b>	<b>ID:</b>	<b>Contact:</b>
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**GENERAL EDUCATION & INSTITUTIONAL REQUIREMENTS** **31 credits minimum**

<input checked="" type="checkbox"/>	Requirement	Course	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	Computer Literacy	CIS 1200 <i>or</i> CIS 1201	0-6	<i>Can also use CS 1400 &amp; CS 1410</i>		
<input type="checkbox"/>	English	ENGL 1010 <i>or</i> ENGL 1010A <i>or</i> ENGL 1010D	3	English <i>and</i> Reading placement scores; pre-/co-requisite LIB 1000/1010		
<input type="checkbox"/>	English	ENGL 2010 <i>or</i> ENGL 2010A	3	ENGL 1010/A/D (C or higher); pre-/co-requisite LIB 1000/1010		
<input type="checkbox"/>	Information Literacy	LIB 1000 <i>or</i> LIB 1010	0-1	English placement score for class		
<input type="checkbox"/>	Mathematics		3-5	Math placement score <i>or</i> MATH pre-req.		
<input type="checkbox"/>	American Institutions		3-6	Reading placement score		
<input type="checkbox"/>	Life Sciences		3-4			
<input type="checkbox"/>	Physical Sciences		3-4			
<input type="checkbox"/>	Laboratory Science		1			
<input type="checkbox"/>	Fine Arts		3			
<input type="checkbox"/>	Literature / Humanities		3			
<input type="checkbox"/>	Social & Behavioral Sciences		3			
<input type="checkbox"/>	Exploration		3-5	<i>3-5 credits, prefix not used in other GE</i>		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	<i>- Complete two with different prefixes</i>		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	<i>- Can share credit with other GE</i>		

**MATH & SCIENCE REQUIREMENTS** **31 credits**

<input checked="" type="checkbox"/>	Course Number	Course	CR	Prerequisites & Notes	Grade	Semester
Complete the following:						
<input type="checkbox"/>	CHEM 1210/15	Principles of Chemistry I / Lab	4/1	<i>GE: Physical Science; See Catalog</i>		
<input type="checkbox"/>	MATH 1210	Calculus I	5	<i>GE: Mathematics; See Catalog</i>		
<input type="checkbox"/>	MATH 1220	Calculus II	4	MATH 1210 (Grade C or higher)		
<input type="checkbox"/>	MATH 2210	Multivariable Calculus	3	MATH 1220 (Grade C or higher)		
<input type="checkbox"/>	MATH 2270	Linear Algebra	3	MATH 1210 (Grade C or higher)		
<input type="checkbox"/>	MATH 2280	Ordinary Differential Equations	3	MATH 1220 (Grade C or higher)		
<input type="checkbox"/>	PHYS 2210/15	Physics Scientists & Engineers I / Lab	4/1	<i>GE: Exploration; See Catalog</i>		
Complete <b>one</b> of the following sets of courses:						
<input type="checkbox"/>	CHEM 1220/25	Principles of Chemistry II / Lab	4/1	CHEM 1210/25		
	PHYS 2220/25	Physics Scientists & Engineers II / Lab	4/1	PHYS 2210/15		

**PRE-ENGINEERING REQUIREMENTS** **15 credits**

<input checked="" type="checkbox"/>	Course Number	Course	CR	Prerequisites & Notes	Grade	Semester
Complete the following:						
<input type="checkbox"/>	ENGR 1050	Intro to Engineering Design	3	MATH 1060 <i>or</i> MATH 1065		
<input type="checkbox"/>	ENGR 2010	Statics	3	See Catalog		

**ELECTIVE REQUIREMENTS** **6 credits**

Complete at least **6 credits** from the following (cannot duplicate courses used to fulfill other Math, Science, or Pre-Engineering requirements):  
 CHEM 1220, CHEM 1225, CHEM 2310, CHEM 2315, CHEM 2320, CHEM 2325, CS 1400, CS 1410, CS 3005, ENGR 1810R, ENGR 1820R, ENGR 2030, ENGR 2140, ENGR 2250, ENGR 2255, ENGR 2300, MATH 2200, MATH 3400, MATH 3500, PHYS 2220, PHYS 2225, Drafting/Design Software courses.

**GRADUATION REQUIREMENTS**

- Subtract duplicated and developmental (0999 and below) credits.
- Complete a minimum of 70 college-level credits (1000 and above).
- At least 20 lower-division credits at DSU for institutional residency.
- Cumulative GPA 2.0 or higher.