

**AAE Engineering Major Courses (43 credits)**

**Required AAE Courses (40 credits)**

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|--|--|
| _____ (3) AAE 20300 - Aeromechanics I                                      | (3) AAE 42100 - Flight Dyn. & Control              |
| _____ (3) AAE 25100 - Intro Aerospace Design                               | (1) AAE 36401L - Materials Processing and Design I |
| _____ (0) AAE 20000 - Undergrad Soph Seminar                               | (3) AAE 45100 - Aircraft Design                    |
| _____ (3) AAE 20400 - Aeromechanics II                                     | (3) ME 20000 - Thermodynamics                      |
| _____ (1) AAE 20401L - Aeromechanics II Lab                                | (3) AAE 33300 - Fluid Mechanics                    |
| _____ (3) AAE 33400 - Aerodynamics   | (1) AAE 33301L - Fluid Mechanics Lab               |
| _____ (1) AAE 33401L/AAE 35201L - Aerodynamics Lab/Structural Analysis Lab | (3) AAE 35200 - Structural Analysis I              |
| _____ (3) AAE 34000 - Dynamics and Vibrations                              | (3) AAE 30100 - Signals Analysis                   |
| _____ (3) AAE 37200 - Jet Propulsion Power Plts.                           |  |
| _____ (3) AAE 36400 - Control System Analysis                              |  |
| _____ (0) AAE 30000 - Undergrad Junior Seminar                             |  |
| _____ (1) AAE 40000 - Undergrad Senior Seminar                             |  |

**AAE technical Electives - (6 credits)**

- \_\_\_\_\_ (3) Technical Elective I  
 \_\_\_\_\_ (3) Technical Elective II

**Major/Minor Electives (15 credits)**

**Other Departmental /Program Course Requirements (48 credits)**

- \_\_\_\_\_ (4/5) MA 16500/16001 - Calculus I ( Satisfies FYE requirement)  
 \_\_\_\_\_ (4/5) MA 16600/16200 - Calculus II( Satisfies FYE requirement)  
 \_\_\_\_\_ (4) CHM 11500 - General Chemistry I  
 \_\_\_\_\_ (2) ENGR 13100 - Transforming Ideas to Innovation I( Satisfies FYE requirement)  
 \_\_\_\_\_ (2) ENGR 13200 - Transforming Ideas to Innovation II( Satisfies FYE requirement)  
 \_\_\_\_\_ (3) ENGL 10600 - English Composition( Satisfies FYE requirement)  
 \_\_\_\_\_ (3) COM 11400 - First-Year General Education Elective( strongly recommended )  
 \_\_\_\_\_ (4) PHYS 17200 - Physics I( Satisfies FYE requirement)  
 \_\_\_\_\_ (3) CS 15900 - Science Elective( Satisfies FYE requirement)  
 \_\_\_\_\_ (4) MA 26100 - ( satisfies Math and physics requirement)  
 \_\_\_\_\_ (3) MA 26500- ( satisfies Math and physics requirement)  
 \_\_\_\_\_ (3) MA 26600 - ( satisfies Math and physics requirement)  
 \_\_\_\_\_ (3) MA 30400 - Diff Eqn for Engr. And Sci.  
 \_\_\_\_\_ (3) PHYS 24100 - ( Satisfies Math and physics requirement)  
 \_\_\_\_\_ (2) CGT 16300 - Computer Graphics

**NOTE:** COM 114 is a 'highly recommended General elective and is counted separately from the 18 credits of Gen Ed requirement. Therefore the Gen Ed requirement is 18 + 3 credits = 21 when including COM 114

**General Electives (18 credits)**

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|--------------------|--------------------|-----------------|-----------------|
| _____ (3) G.E.-I   | _____ (3) G.E.-IV  | _____ ( ) _____ | _____ ( ) _____ |
| _____ (3) G.E.-II  | _____ (3) G.E.-V   | _____ ( ) _____ | _____ ( ) _____ |
| _____ (3) G.E.-III | _____ (3) G.E.- VI | _____ ( ) _____ | _____ ( ) _____ |

**University Core Requirements**

- |  |                          |       |   |                          |       |
|--|--------------------------|-------|---|--------------------------|-------|
| Human Cultures Humanities                | <input type="checkbox"/> | _____ | Science, Technology & Society Selective | <input type="checkbox"/> | _____ |
| Human Cultures Behavioral/Social Science | <input type="checkbox"/> | _____ | Written Communication                   | <input type="checkbox"/> | _____ |
| Information Literacy                     | <input type="checkbox"/> | _____ | Oral Communication                      | <input type="checkbox"/> | _____ |
| Science Selective                        | <input type="checkbox"/> | _____ | Quantitative Reasoning                  | <input type="checkbox"/> | _____ |
| Science Selective                        | <input type="checkbox"/> | _____ |   |                          |       |

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**The student is ultimately responsible for knowing and completing all degree requirements.**  
**Degree Works is knowledge source for specific requirements and completion**

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**Aeronautical & Astronautical Engineering (Aeronautics)**

[https://engineering.purdue.edu/AAE/Academics/Undergrad/pos/20130528\\_POS\\_Instructions.pdf](https://engineering.purdue.edu/AAE/Academics/Undergrad/pos/20130528_POS_Instructions.pdf)

**Suggested Arrangement of Courses:**

Credits	Fall 1st Year	Requisites		Credits	Spring 1st Year	Requisites	
		Pre	Co			Pre	Co
4	MA16500			4	MA16600	MA16500	
4	CHM11500			4	PHYS17200		
3	ENGL10600			3	CS15900		
2	ENGR13100			2	ENGR13200	ENGR13100	
2	CGT16300			3	COM11400		
<b>15</b>				<b>16</b>			

Credits	Fall 2nd Year	Requisites		Credits	Spring 2nd Year	Requisites	
		Pre	Co			Pre	Co
3	AAE20300	PHYS17200	MA26100	3	AAE20400	AAE20300	
3	AAE25100	ENGR13200, CGT16300,	AAE20000	1	AAE20401		AAE20400
4	MA26100			3	PHYS24100	PHYS17200	
3	Gen Elec I			3	MA26600		
3	MA26500			3	ME20000		
0	AAE20000			3	Gen Elec II		
<b>16</b>				<b>16</b>			

Credits	Fall 3rd Year	Requisites		Credits	Spring 3rd Year	Requisites	
		Pre	Co			Pre	Co
3	AAE33300	AAE20300 AAE20000	MA30300 OR MA30400, AAE25100	3	AAE33400	AAE33300, AAE33301, ME20000	
1	AAE33301		AAE33300	1	AAE33401 OR AAE35201		AAE33400 OR AAE35200
3	AAE35200	AAE20400 & AAE20401 & AAE20000 &	AAE25100	3	AAE34000	AAE20300, MA30400	
3	MA30400			3	AAE36400	AAE30100	
3	AAE30100	AAE20000, MA26500 & MA26600	AAE25100	3	Gen Elec IV		
0	AAE30000			3	AAE37200	AAE20000, ME20000	AAE33400
3	Gen Elec III						
<b>16</b>				<b>16</b>			

Credits	Fall 4th Year	Requisites		Credits	Spring 4th Year	Requisites	
		Pre	Co			Pre	Co
3	AAE42100	AAE30000, AAE34000	AAE36400	3	AAAE45100	AAE33400, AAE34000, AAE35200, AAE36400	AAE40000
1	AAE36401	AAE36400		9	Major/Minor Electives		
6	Major/Minor Electives						
3	Gen Elec V			3	Gen Elec VI		
3	Tech Elec I			3	Tech Elec II		
0	AAE39500						
<b>16</b>				<b>18</b>			

\*Satisfies a University Core Requirement

\*\*Satisfies a Non-departmental Major Course Requirement

Students must earn a "C-" or better in all required XX courses.

**130 semester credits required for Bachelor of Science degree.**

**2.0 Graduation GPA required for Bachelor of Science degree.**

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