**GENERAL**

**COMMUNICATIONS** (9 hrs.)
Grades of C- or better are required in all three of the Communications courses below
- ENGL 101 (3)
- ENGL 102 (3)
- COMM 111 (3)

**GENERAL EDUCATION** (18 hrs.)
All six courses must be chosen from the approved General Education Program Course listing in the WSU Undergraduate Catalog.

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Introductory Fine Arts Course</td>
<td></td>
</tr>
<tr>
<td>1 Introductory Humanities Course</td>
<td></td>
</tr>
<tr>
<td>1 Introductory Social and Behavioral Science</td>
<td></td>
</tr>
<tr>
<td>Humanities or Social and Behavioral Science</td>
<td></td>
</tr>
<tr>
<td>1 Further Studies Course in the Humanities</td>
<td></td>
</tr>
<tr>
<td>PHIL 385 (required by AE program)</td>
<td></td>
</tr>
</tbody>
</table>

**ENGINEER OF 2020**
Students must complete three out of the following six categories: (1) Undergraduate Research; (2) Cooperative Education/Internship; (3) Global Learning/Study Abroad; (4) Service Learning; (5) Leadership; (6) Multi-Disciplinary.

**MATHEMATICS & NATURAL SCIENCES** (34 hrs.)

**Math**
- MATH 242 (5)  
  (P: See WSU Catalog)
- MATH 243 (5)  
  (P: MATH 242 with a C or better)
- MATH 344 (3)  
  (P: MATH 243 with a C or better)
- MATH 555 (3)  
  (P: MATH 243 with a C or better)

**Natural Science**
- CHEM 211 (5)  
  (P: See WSU Catalog)
- PHYS 313 (4)  
  (C: MATH 243)
- PHYS 314 (4)  
  (P: MATH 243 with a C or better, PHYS 313)
- PHYS 315 (1)  
  (C: PHYS 313)
- Nat Sci Elect (3)
  Choose one course from the following (some are > 3 hrs.):  
  Biology – 210, 211, 223, 310, 370, 5_ or above  
  Chemistry – 212, 301, 5_ or above  
  Geology – 102, 111, 235, 3_ or above  
  Physics – 195, 196, 3_ or above

**TECHNICAL ELECTIVES** (9 hrs.) – Offered Fall/Spring
Technical elective classes allow you to either broaden or to enhance your technical knowledge. These courses must be taken from engineering, math, or science - preferably during your senior year and only after carefully considering career goals and consulting with your faculty advisor. With the exception ENGR 101 (3 credit hours) all technical elective classes must be upper division with MATH 242 or higher as a prerequisite. A maximum of 3 credit hours may be taken outside of aerospace engineering.

**MAJOR**

**Major GPA based upon the courses listed below**

**ENGINEERING CORE** (13 hrs.)
- AE 223 (3) – Offered Fall/Spring/Summer  
  (PHYS 313, C: MATH 243)
- IME 255 (3)  
  (C: MATH 242)
- EE 282 (4)  
  (C: MATH 243)
- ME 398 (3)  
  (P: MATH 243 with a C or better, PHYS 313 with a C or better)

**REQUIRED COURSES** (52 hrs.)
- IME 222 (2)  
  (P: MATH 123 or equiv.)
- IME 222L (1)  
  (P: MATH 123 or equiv.)
- AE 227 (3) – Offered Fall/Spring  
  (C: MATH 243)
- ME 250 (3)  
  (P: MATH 242 with a C or better, CHEM 211 with a C or better)
- AE 324 (3) – Offered Fall/Spring  
  (P: AE 223 with a C or better, C: AE 227)
- AE 333 (3) – Offered Fall/Spring/Summer  
  (P: AE 223 with a C or better, C: MATH 344)
- AE 373 (3) – Offered Fall/Spring/Summer  
  (P: AE 223 with a C or better, MATH 344)
- AE 415 (3) – Offered Fall Only  
  (P: AE 373 with a C or better, AE 227, C: MATH 555)
- AE 424 (3) – Offered Fall/Spring  
  (P: MATH 555, AE 324 with a C or better, AE 373)
- AE 502 (3) – Offered Spring Only  
  (P: AE 227, AE 373, ME 398, C: AE 424)
- AE 512 (3) – Offered Fall/Spring  
  (P: AE 333, AE 424, C: AE 524)
- AE 514 (3) – Offered Spring Only  
  (P: AE 415, C: AE 424)
- AE 524 (3) – Offered Fall/Spring  
  (P: AE 424)
- AE 525 (3) – Offered Fall Only  
  (P: AE 333 with a C or better, C: MATH 555)
- AE 528 (4) – Offered Fall Only  
  (P: AE 502, AE 514, AE 525)
- AE 607 (3) – Offered Fall Only  
  (P: AE 514)
- AE 625 (3) – Offered Spring Only  
  (P: AE 333, AE 525)
- AE 628 (4) – Offered Spring Only  
  (P: AE 528)

**AEROSPACE ENGINEERING CHECK SHEET**

135 Hours Minimum for Graduation
## Aerospace Engineering Curriculum Flow Chart

(Including pre- & co-requisites)

### GE Core

<table>
<thead>
<tr>
<th>Subject</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>ENGL 102</td>
<td>GE Core</td>
<td>GE Core</td>
<td>GE Core</td>
</tr>
<tr>
<td>COMM 111</td>
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### Math

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### Science

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### Other Eng.

<table>
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<tbody>
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### AE Core & Design

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<th>Senior</th>
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### Aerodyn & Propulsion

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<td>ME 389</td>
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<td>AE 423</td>
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</table>

### Flight Dynamics & Control

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</table>

### Structures

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### Tech Elect

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</tbody>
</table>

### Notes:

1. AE 415, 525, 528, and 607 are only offered during the Fall and AE 502, 514, 625, and 628 are only offered during the Spring.
2. A C-minus grade does not meet AE or ME department "C or better" prerequisite requirements.