## General Education (18 hrs.)

All 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>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Introductory Fine Arts Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Introductory Humanities Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Advanced Further Studies Course in the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities or Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Course in Communications (not in ECON)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Course in Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Course in General Studies (not in PHIL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 201 (required by AE program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 385 (required by AE program)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Engineering 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 (33 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)

### Elective

Choose one course from the following (some are > 3 hrs.):

- Biology – 210, 211, 223, 310, 370, 5_
- Chemistry – 212, 301, 5_
- Geology – 102, 111, 235, 3_
- Physics – 195, 196, 3_
- Math – upper division, with Math 242 or higher prerequisite

## Major

### Engineering Core (10 hrs.)

- AE 223 (3) – Offered Fall/Spring/Summer
  - (PHYS 313, C: MATH 243)
- 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 (53 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, 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, 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)

### AE Technical Electives (6 hrs.) – Offered Fall/Spring

Technical elective classes allow you to either broaden or to enhance your technical knowledge. These courses must be taken from aerospace engineering - preferably during your senior year and only after carefully considering career goals and consulting with your faculty advisor.
# AEROSPACE ENGINEERING CHECK SHEET

**Effective date: Fall 2018**

### Aerospace Engineering Curriculum Flow Chart (Including pre- & co-requisites)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>ENGL 101</td>
<td>ENGL 102</td>
<td>GE Core (3)</td>
<td>GE Core (3)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>ENGL 101</td>
<td>COMM 111 (3)</td>
<td>GE - ECON 201 (3)</td>
<td>GE Core (3)</td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td>C: MATH 243</td>
<td>AE 227 (3)</td>
<td>AE 373 (3)</td>
<td>AE 502 (3)</td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>MATH 243 (5)</td>
<td>MATH 344 (3)</td>
<td>MATH 555 (3)</td>
<td>AE 502 (3)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>CHEM 211</td>
<td>ME 250 (3)</td>
<td>AE 333 (3)</td>
<td>AE 512 (3)</td>
</tr>
<tr>
<td><strong>Junior</strong></td>
<td>C: MATH 243</td>
<td>PHYS 313 (4)</td>
<td>MATH 243 w/C or better</td>
<td>AE 514 (3)</td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>PHYS 316 (1)</td>
<td>ME 398 (3)</td>
<td>MATH 243 w/C or better</td>
<td>AE 514 (3)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>PHYS 315 (4)</td>
<td>AE 424 (3)</td>
<td>MATH 243 w/C or better</td>
<td>AE 514 (3)</td>
</tr>
<tr>
<td><strong>Senior</strong></td>
<td>PHSI 315 (1)</td>
<td>PHYS 314 (3)</td>
<td>AE 625 (3)</td>
<td>AE 628 (4)</td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>POPH 313</td>
<td>AE 625 (4)</td>
<td>AE 528 (4)</td>
<td>AE 628 (4)</td>
</tr>
</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.

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### Prerequisite

- ENGL 101
- ENGL 102
- COMM 111
- AE 227
- MATH 243
- MATH 344
- MATH 555
- CHEM 211
- PHYS 313
- PHYS 315

### Corequisite

- GE Core
- GE Core
- MATH 242
- MATH 243
- MATH 344
- MATH 355
- AE 332
- AE 333
- AE 373
- AE 415
- AE 502
- AE 514
- AE 524
- AE 528
- AE 625
- AE 628
- AE 628

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### Effective date:

- Fall 2018