AEROSPACE ENGINEERING CHECK SHEET
129 Hours Minimum for Graduation

**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>Courses</th>
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<tbody>
<tr>
<td>1 Introductory Fine Arts Course</td>
<td></td>
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<tr>
<td>1 Introductory Humanities Course</td>
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<tr>
<td>1 Introductory Course in Social and Behavioral Sciences</td>
<td>(not in ECON)</td>
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<tr>
<td>1 Advanced Further Studies Course in the Humanities or Social and Behavioral Sciences</td>
<td>(not in PHIL)</td>
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<tr>
<td>ECON 201 (required by AE program)</td>
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<tr>
<td>PHIL 385 (required by AE program)</td>
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</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 (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__ or above
- Chemistry – 212, 301, 5__ or above
- Geology – 102, 111, 235, 3__ or above
- Physics – 195, 196, 3__ or above
- Math – upper division, with Math 242 or higher prerequisite

**MAJOR**

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

**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 OR MATH 555)
- 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.
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.