

AEROSPACE ENGINEERING CHECK SHEET

129 Hours Minimum for Graduation

GENERAL

MAJOR

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.

1 Introductory Fine Arts Course
1 Introductory Humanities Course
1 Introductory Course in Social and Behavioral Sciences (not in ECON)
1 Advanced Further Studies Course in the Humanities or Social and Behavioral Sciences (not in PHIL)
ECON 201 (required by AE program)
PHIL 385 (required by AE program)

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 –

Major GPA based upon the courses listed below

ENGINEERING MAJOR COURSES

- (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, C: 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, 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)

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.

