

Student Information

Name: _____ OSU Email: _____

Suggested Curriculum

This should be used as a **guide** only. *Semester offerings are subject to change.*

Year	Autumn	Spring
1	___ MATH 1151 (<i>Calculus 1</i>)..... 5 hr ___ ENGR 1100 (<i>Engineering Survey</i>)..... 1 hr ___ PHYSICS 1250 (<i>Physics 1</i>)..... 5 hr ___ ENGR1181 (<i>Fundamentals of ENGR 1</i>) 2 hr ___ AVIATN 2100 (<i>Private Pilot Fundamentals</i>)..... 5 hr	___ MATH 1172 (<i>Engineering Math A</i>)..... 5 hr ___ ENGR 1182 (<i>Fundamentals of ENGR 2</i>)..... 2 hr ___ AVIATN 2000 (<i>Intro to Aviation</i>)..... 3 hr ___ AVIATN Elective..... 2 hr ___ Technical Elective..... 5 hr
2	___ AVIATN 2200 (<i>Aviation Communication</i>)..... 3 hr ___ AVIATN 2300 (<i>Aircraft Performance and Wx</i>).. 3 hr ___ General Education..... 3 hr ___ Technical Elective 4 hr ___ General Education..... 3 hr	___ AVIATN 3000 (<i>Aviation Mgmt and Marketing</i>).. 3 hr ___ AVIATN 3200 (<i>Aviation Regulations</i>) 3 hr ___ Technical Elective 4 hr ___ Technical Elective 4 hr
3	___ AVIATN 3300 (<i>Avn. Human Factors and Safety</i>) 3 hr ___ AVIATN Elective..... 3 hr ___ AVIATN Elective..... 3 hr ___ Technical Elective 4 hr ___ General Education..... 3 hr	___ AVIATN Elective..... 3 hr ___ AVIATN Elective..... 3 hr ___ Technical Elective..... 3 hr ___ Technical Elective..... 3 hr ___ General Education..... 3 hr
4	___ AVIATN Elective..... 3 hr ___ AVIATN Elective..... 3 hr ___ General Education..... 3 hr ___ General Education..... 3 hr	___ AVIATN 4500 (<i>Aviation Capstone</i>)..... 3 hr ___ AVIATN Elective..... 3 hr ___ Technical Elective..... 3 hr ___ General Education..... 3 hr ___ General Education..... 3 hr

Total Hours to complete the degree program = 124

Program Options

Courses printed in **BOLD** are Aviation core courses. All core courses must be completed prior to registering Aviation 4500. All core courses (in bold) are offered both autumn and spring semesters.

Please see academic advising staff in Aviation for more information on various options within the Aviation program.

Acceptance Criteria

Acceptance into the Aviation major is dependent on the cumulative point-hour ratio (CPHR) and the eligibility point-hour ratio (EPhR) upon completion of the following pre-major courses: AVN 2000, 2100; Math 1151, 1172 or 1152; Physics 1250; English 1110 and Engineering 1181, 1182. A minimum EPhR of 2.0 is required. ***With the exception of flight related courses, students must be accepted into the major to take the 3000 level or above Aviation courses.***

Technical and Other Electives

AVIATION - Choose at least 12 hours

- ___ (2 hr) *AVN 2101 (*Private Pilot Flight Lab 1*)
- ___ (2 hr) * AVN 2102 (*Private Pilot Flight Lab 2*)
- ___ (2 hr) *AVN 2501 (*Comm. Cross Cntry Flight Lab*)
- ___ (3 hr) *AVN 3100 (*Instrument Flight Fndmtls*)
- ___ (3 hr) *AVN 3101 (*Instrument Flight Lab*)
- ___ (3 hr) AVN 3194 (*Group Studies in Aviation*)
- ___ (3 hr) AVN 3400 (*Air Accident Investigation*)
- ___ (3 hr) AVN 3500 (*Labor Relations*)
- ___ (3 hr) AVN 3600 (*Business and Corporate Aviation*)
- ___ (3 hr) AVN 3700 (*Diversity in the Aviation Workforce*)
- ___ (3 hr) AVN 4000 (*Air Transportation Analysis I*)
- ___ (3 hr) *AVN 4100 (*Commercial Flight Fndmtls*)
- ___ (3 hr) *AVN 4101 (*Commercial Flight Lab*)
- ___ (3 hr) AVN 4200 (*Flight Dispatch Fundamentals*)
- ___ (3 hr) AVN 4201 (*Applied Flight Dispatch*)
- ___ (2 hr) *AVN 4300 (*Advanced Multi Engine Ops*)
- ___ (2 hr) *AVN 4301 (*Comm. Multi Engine Flt Lab*)
- ___ (3 hr) AVN 4400 (*Airport Management*)
- ___ (2 hr) AVN 4800 (*Prof Practices in Industry*)
- ___ (3 hr) AVN 5000 (*Air Transportation Analysis 2*)
- ___ (2 hr) *AVN 5100 (*Flight Instructor Methodology*)

- ___ (2 hr) *AVN 5101 (*Flight Instructor ASEL Flt Lab*)
- ___ (1 hr) AVN 5102 (*Flight Instructor AMEL Flt Lab*)
- ___ (2 hr) AVN 5200 (*Instrmt Flight Instructor Mthds*)
- ___ (1 hr) AVN 5201 (*Instrmt Flight Instructor Flt Lab*)
- ___ (3 hr) AVN 5300 (*Airport Design & Develop.*)

TECHNICAL - Choose at least 27 hours

- ___ (4 hr) AAE 2200 (*Intro to Aero Eng 1*)
- ___ (4 hr) AAE 2201 (*Intro to Aero Eng 2*)
- ___ (5 hr) Physics 1251 (*E&M, Optics, Modern Physics*)
- ___ (4 hr) Chemistry 1250 (*Gen Chem for Engineers*)
- ___ (3 hr) Math 2173 (*Engineering Mathematics B*)
- ___ (3 hr) Math 2255 (*Differential Equations*)
- ___ (2 hr) MECHENG 2010 (*Statics*)
- ___ (3 hr) MECHENG 2030 (*Dynamics*)
- ___ (3 hr) Statistics 2450 (*Intro to Statistical Analysis I*)
- ___ (2 hr) ISE 2040 (*Engineering Economics*)
- ___ (3 hr) CSE 1222 (*Intro to C++*)
- ___ (3 hr) CSE 2111 (*Spreadsheets and databases*)
- ___ (3 hr) CSE 2122 (*Data in C++*)

Note: Courses marked with * are required for professional pilot certification. Professional pilot students may choose AVN 4301 OR 5101 but do not need both

General Education Requirement

Writing and Communication

- English 1110.xx 3 hr
- Second Writing Course 3 hr

Social Science

- Must choose each course from a distinct subgroup of this category.*
- _____ 3 hr
 - _____ 3 hr

Literature

- _____ 3 hr

Visual and Performing Arts

- _____ 3 hr

Historical Study

- _____ 3 hr

Second Historical Study or Cultures and Ideas

- _____ 3 hr

Social Diversity in the U.S. or Global Diversity

- Some courses may overlap with another GE category. See course list.*
- _____ 0 / 3 hr

Ethics

- Some courses may overlap with another GE category. See course list.*

0 / 3 hr

Optional: Foreign Language

Foreign Language 1103 Course: credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be used to satisfy the Cultures & Ideas Gen Ed category.

Foreign Language Minor Courses: completion of a foreign language minor permits a student to overlap up to 6 credit hours between the Gen Ed and minor. A curricular petition must be submitted to the student's program, which will forward it to the college for review. The courses must meet the spirit of the Gen Ed category for which overlap is requested.

Optional: University Capstone

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any subgroup. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

See the list of approved general education courses for additional details: www.advising.engineering.osu.edu.