



**BS Aviation Curriculum Requirements**

General College of Engineering Requirements		Hours
Engr 1100.02	Introduction to Ohio State and Aviation	1
Engr 1181	Fundamentals of Engineering I	2
Engr 1182	Fundamentals of Engineering II	2
Math 1151	Calculus I	5
Math 1172	Engineering Mathematics A	5
Physics 1250	Mechanics, Thermal Physics, Waves	5
<b>Aviation Core</b>		
Aviatn 2000	Introduction to the Aviation Industry	3
Aviatn 2100	Private Pilot Fundamentals	5
Aviatn 2200	Aviation Organization Analysis and Writing	3
Aviatn 2300	Aircraft Performance and Weather	3
Aviatn 3000	Aviation Management and Marketing	3
Aviatn 3200	Aviation Regulations and Policy	3
Aviatn 3300	Aviation Human Factors and Safety	3
Aviatn 4520	Aviation Capstone: Aviation Engineering	3
<b>Aviation Electives (choose at least 15 hours)*</b>		
Aviatn 2400	Fundamentals in Unmanned Aircraft Systems	3
Aviatn 2401	UAS Ground and Flight Operations	3
Aviatn 2900	Air Traffic Control Fundamentals	3
Aviatn 3193	Individual Studies in Aviation	2-5
Aviatn 3194	Group Studies in Aviation	2-5
Aviatn 3400	Aviation Accident Investigation	3
Aviatn 3600	Business and Corporate Aviation Management	3
Aviatn 3700	Building a Diverse Workforce in Aviation	3
Aviatn 3900	Air Traffic Management Systems and Environment	3
Aviatn 4000	Air Transportation Analysis I	3
Aviatn 4200	Aircraft Dispatch Fundamentals	3
Aviatn 4201	Applied Dispatching	3
Aviatn 4400	Airport Management	3
Aviatn 4800	Professional Practices in Industry	2-5
Aviatn 5000	Air Transportation Analysis II	3
Aviatn 5193	Individual Studies in Aviation	2-5
Aviatn 5194	Group Studies in Aviation	2-5
Aviatn 5300	Airport Planning, Design, and Development	3
<b>Technical Electives (choose at least 20 hours)*</b>		
AeroEng 2200	Introduction to Aerospace Engineering I	4
CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
CSE 1223	Introduction to Computer Programming in Java	3
CSE 1224	Introduction to Computer Programming in Python	3
ISE 2040	Engineering Economics	2
MechEng 2010	Statics	2
MechEng 2030	Dynamics	3
MechEng 2040	Statics and Introduction to Mechanics of Materials	4
NavalSc 3110	Naval Ship Systems	3
NavalSc 3210	Naval Mission Systems	3
Physics 1251	E&M, Waves, Optics, Modern Physics	5
Aviatn, CSE, Math or Stat courses at the 2000 level or above		
Other technical courses related to a career in aviation at the 2000 level or above and approved by the Center for Aviation Studies		
May choose one of the following:		
Chem 1208	Foundations 2 of General Chemistry	4
Chem 1210	General Chemistry I	5
Chem 1250	General Chemistry for Engineers	4
<b>General Education (choose at least 25 hours)</b>		
For detailed GE curriculum requirements and course lists visit <a href="https://advising.engineering.osu.edu/current-students/curriculum/general-education">advising.engineering.osu.edu/current-students/curriculum/general-education</a>		

\*Students who declare the aviation major prior to AU23 can alternatively complete 12 hours of aviation electives and 27 hours of technical electives.



BS Aviation 4-Year Sample Schedule

	Autumn		Spring	
Year 1	Engr 1100.02	1	GenEd 1201	1
	Engr 1181	2	GE Foundation	3
Year 1	Math 1151	5	Engr 1182	2
	Aviatn 2000	3	Math 1172	5
Year 1	Aviatn 2100	5	Aviatn 2200	3
		16		14
Year 2	Aviatn 3000	3	Aviatn 2300	3
	Physics 1250	5	Aviation Elective	3
Year 2	GE Foundation	3	GE Foundation	3
	GE Foundation	3	GE Foundation	3
Year 2			Technical Elective	3
		14		15
Year 3	Aviatn 3200	3	Aviatn 3300	3
	Aviation Elective	3	Aviation Elective	3
Year 3	Technical Elective	3	Technical Elective	3
	Technical Elective	3	Technical Elective	3
Year 3	GE Theme	4	GE Theme	4
		16		16
Year 4	Aviation Elective	3	GenEd 4001	1
	Aviation Elective	3	Aviation 4520	3
Year 4	Technical Elective	3	Technical Elective	2
	Free Elective	3	Free Elective	3
Year 4	Free Elective	3	Free Elective	3
		15		15

Admission to the Aviation major requires:

- Enrolled in College of Engineering on the Columbus campus
- Not currently on academic probation (CPHR greater than 2.0)