



**Southeastern Oklahoma
State University**

Aviation Sciences Institute

BS Aviation – Professional Pilot

Program Overview

Prospectus



July 17, 2023

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UNIVERSITY MISSION STATEMENT

Southeastern Oklahoma State University provides an environment of academic excellence that enables students to reach their highest potential. By having personal access to excellent teaching, challenging academic programs, and extracurricular experiences, students will develop skills and habits that promote values for career preparation, responsible citizenship, and lifelong learning.

Aviation Sciences Mission Statement

The primary mission of the Aviation Sciences Institute is to provide its students with the highest quality aviation education and flight training possible. The fundamental belief being that the best trained students will be the safest and most successful aviation professionals. The Aviation Sciences Institute will strive to excel as a world leader in aviation education. To that end, the Aviation Sciences Institute will provide the student with the most current information, technology, and personalized training available in the aviation profession.



The Professional Pilot program is designed to provide comprehensive flight training augmented with intense academic and ground training designed to produce confident, safe, professional pilots. Simulation is incorporated to provide the professional pilot students with hands on experience with advanced technology and different environments.

Professional Pilot majors must obtain an FAA first class medical certificate issued by a physician designated by the Federal Aviation Administration (FAA). All flight students must also comply with all Department of Homeland Security regulations governing flight training for U.S. and non-U. S citizens.

Bachelor of Science Aviation Professional Pilot program is accredited by the Aviation Accreditation Board International (AABI). Compliance with AABI Policy 3.4.2.

Graduates will be effective communicators with the ability to prepare and deliver oral and written presentations using appropriate technologies. ASI students possess the knowledge and understand the significance of making professional and ethical decisions. ASI graduates possess the leadership skills necessary to give direction and guidance and to delegate work tasks in a manner which proves to be effective and which motivates others to do their best in both a manager/subordinate and a team setting. They engage in lifelong learning, knowledge of contemporary issues, use of techniques, skills and modern technology with and understand both US national and ICAO international aviation. ASI graduates will understand the functional areas of aviation and how they relate to each other.

Aviation Program Application and Acceptance Procedure

The Southeastern Aviation program is selective in that each applicant must apply to the program as well as apply to the University. In early Spring each year, the Aviation Selection Board meets and reviews all applications and then ranks the applicants in terms of the candidates most likely to succeed as Professional Pilots using a structured evaluation protocol. Successful applicants are notified of their status during early March of the year they are applying for. The program may accept up to fifty freshman students each Fall, but that number will vary each year depending upon many factors including weather and previous year graduation metrics. Get your application in before the March deadline!

Application Procedure

To submit for the Professional Pilot program, START by applying to Southeastern Oklahoma State University (www.se.edu/apply/). AFTER completing the online university application, provide the following documents:

*Documents may be uploaded directly into your online application account.

- Previous institutional transcripts (High school and College)
- SAT/ACT scores
- Submit FAA Class 1 Medical (faa.gov/pilots/amelocator/).
- Write a minimum 1-page essay indicating why you want to be a professional pilot and why you want to be a part of the Southeastern Professional Pilot program.
- Write a Resume highlighting your scholastic, leadership, and responsibility accomplishments.

Once all documents are uploaded, they will then be reviewed by Southeastern Admissions and the Aviation Department.

For any questions or concerns, please contact aviationadvising@se.edu or by phone at 580-745-3252.

Factors Affecting Acceptance into the Professional Pilot program



Southeastern is interested in creating the highest quality aviation education possible for its students. We are most interested in accepting students who have the highest aptitude and the highest chances of succeeding in the aviation industry as a professional pilot. While having piloting experience is not necessarily a requirement indicating success, it certainly has some weight. Other factors also include a student's character and their leadership skills from high school or a job. Our job is to turn our students into successful and competent pilots! We use an evaluation grid to objectively evaluate students in comparison to other applicants. The following represents some of the factors which might result in getting the highest probability of program acceptance:



- Students must be admitted to Southeastern for consideration in the Professional Pilot program.
- Students who are in our Honors and President's Leadership Class programs may receive a higher score.
- Students who have shown leadership skills in high school, scouts, or other organizations may receive a higher score.
- Students who have high ACT or SAT scores may receive a higher score.
- Students who do not have an FAA First Class Medical may not be considered.
- Students who have some pilot experience or even have soloed may receive a higher score.
- Students who have already completed their Private Pilot certificate prior to applying may receive a higher score.
- Students who submit an impressive essay on why they want to be a professional pilot may receive a higher score.
- Students who submit impressive reference letters written on their behalf may receive a higher score.

Professional Pilot Program Aviation Course Types

FAA Title 14 CFR 141 Courses and Course Type			
Aviation - Professional Pilot Core Courses (64 Credits)	Credits	Course Type	FAA 14 CFR 141 Courses
General Aviation Segment			
AVIA 1004 Primary Ground Instruction	4	Ground	√
AVIA 1041 Private Flying (Private)	1	Flight	√
AVIA 2083 Commercial Performance & Regulations	3	Ground	√
AVIA 3173 Aviation Safety (SMS)	3	Lecture	
AVIA 3003 Meteorology	3	Lecture	
AVIA 3023 Air Traffic Control	3	Lecture	
AVIA 3113 Aviation Legal Problems	3	Lecture	
AVIA 3123 Commercial Operations	3	Ground	√
AVIA 3511 Advanced Commercial Maneuvers Flight (COM 1)	1	Flight	√
AVIA 3284 Instrument Ground	4	Ground	√
AVIA 3521 Instrument Rating Flight (Inst)	1	Flight	√
AVIA 3531 Commercial Experience Building Operations Flight (COM 2)	1	Flight	√
AVIA 3451 Intro Adv. Tech. Aircraft (TAA)	1	Integrated Lecture/Lab	
AVIA 3541 Commercial TAA Operations Flight (COM 3)	1	Flight	√
AVIA 3551 Commercial FAA Certification Flight (COM 4)	1	Flight	√
AVIA 3152 Fundamentals of Instruction (FOI)	2	Ground	√
AVIA 3202 Flight Instructor Ground	2	Ground	√
AVIA 3241 Flight Instructor Flying (CFI)	1	Flight	√
AVIA 3362 Instrument Flight Instructor Ground	2	Ground	√
AVIA 3401 Instrument Flight Instructor Flying (CFII)	1	Flight	√
AVIA 4562 Multiengine Ground Instruction	2	Ground	√
AVIA 4601 Multiengine Flying (Multi)	1	Flight	√
Transport Aircraft Segment			
AVIA 3334 Advanced Aerodynamics	4	Lecture	
AVIA 3233 Adv. Aircraft System (B737 MAX FBPT)	3	Integrated Lecture/Sim	
AVIA 3503 Integration of FMS/Comm. Ops (B737 MAX FBPT)	3	Integrated Lecture/Lab	
AVIA 4643 Physiology	3	Lecture	
AVIA 4663 Contemporary Topics (Capstone)	3	Lecture	
AVIA 4674 Crew Resource Management (Capstone)(B737 MAX FBPT)	4	Integrated Lecture/Sim	
<i>Total Aviation Credits</i>	64		

Professional Pilot Program Course Sequence

 Southeastern Oklahoma State University		Suggested Sequence Planning Guide BS - Aviation - Professional Pilot		 AVIATION			
124 Credits to Graduate		Classes in BOLD type are required for Aviation Major/Minor		Rev 4-12-2022			
FRESHMAN YEAR							
Fall			Credits	Spring			Credits
AVIA 1004	G	Private Pilot Ground	4	AVIA 2083	G	Commercial Performance Ground	3
AVIA 1041	F	Private Pilot Flying	1	AVIA 3511	F	Adv Commercial Maneuvers Flight (COM 1)	1
ENG 1113		#English	3	HIST 1513/152		#History (Before or after 1876)	3
Math 1513		#Algebra	3	AVIA 3003		Aviation Meteorology	3
ORIE 1002		#College Success	2	PSY 1113		#Intro to Psychology or KIN 1113 (Wellness)	3
POSC 1513		#U.S. Federal Gov	3	ENG 1213		#English	3
			16				16
SOPHOMORE YEAR							
Fall			Credits	Spring			Credits
COMM 2213		#Bus & Prof Speaking	3	AVIA 3123	G	Commercial Operations Ground	3
AVIA 3173		Aviation Safety	3	AVIA 3451		Intro. To Adv. Tech A/C	1
AVIA 3521	F	Instrument Rating Flight (Instrument)	1	AVIA 3541		Technically Advanced Aircraft Flight (COM 3)	1
AVIA 3284	G	Instrument Ground	4	PHYS 1004		#Concepts in Physics (Also Lab)	4
MATH 2143		#Brief Calculus	3	CIS 1003		Computers in Society or BIM 1553	3
AVIA 3531	F	Commercial Experience Building Fit (COM 2)	1	BIO 1114		#Biology (Also Lab)	4
			15				16
JUNIOR YEAR							
Fall			Credits	Spring			Credits
AVIA 3551	F	Commercial Certification Fit (COM 4)	1	AVIA 3362	G	CFII Ground	2
AVIA 3152	G	Fundamentals of Instructing (FOI)	2	AVIA 3401	F	CFII Flying	1
AVIA 3202	G	CFI Ground	2	AVIA 3233	T	Advanced A/C Systems (B737 Lab)	3
AVIA 3241	F	CFI Flying	1	AVIA 3113		Aviation Legal	3
AVIA 3334	T	Advanced Aerodynamics (B737 Lab)	4	Hum. Phil. Lit		Req. Elective 1 - See Advisor or Colleague	3
AVIA 3023		Air Traffic Control	3	Hum. Phil. Lit		Req. Elective 2 - See Advisor or Colleague	3
Social Sciences		SS Elective 1 - See Catalog for Classes	3				
			16				15
SENIOR YEAR							
Fall			Credits	Spring			Credits
AVIA 3503	T	Flight Mgmt. Systems/Comm Ops (B737 Lab)	3	AVIA 4674	T	Crew Resources Mgmt. (CRM) (Capstone) (B737 Lab)	4
AVIA 4562	G	MEL Ground	2	AVIA 4663		Contemporary Topics in Aviation (Capstone)	3
AVIA 4601	F	MEL Flying	1	Fine Arts		Req. Elective- See Advisor or Colleague	3
AVIA 4643		Physiology	3	Electives		Req. Elective 1- See Advisor or Colleague	3
Avia Elective		Req Avia Elective - See Advisor or Colleague	3	Electives		Req. Elective 2- See Advisor or Colleague	3
Humanities		Req. Hum Elective 2 - See Advisor or Colleague	3				
			15				16
General Business Minor (9 hours required/9 electives)				Management Minor(3 hours required/15 electives)			
ACCT 2103		Fund of Financial Acc		Req	MNGT 3113 Mngt and Org Behavior		
MNGT 3113		Mngt and Org Behavior		Elec	MNGT 3243 Prod and Operations Management		
MKT 3233		Principles of Marketing		Elec	MNGT 3343 Small Bus Management		
9 hours of Elective		Refer to the undergraduate catalog		Elec	MNGT 3443 Supervisory Management		
				Elec	MNGT 3533 Human Resource Mngt		
		Refer to the current undergraduate catalog		Elec	MNGT 4653 Contemporary Issues		
		for any Major or Minor requirements		Elec	MNGT 4663 Entrepreneurship		
Notes:	Each student needs 55 credit hours of Liberal Arts/Sciences, See Catalog or Colleague for requirements						
	Codes: G = FAA Ground, F = FAA Flight, T = Transport Segment						
	64 Aviation Credits Required for FAA R-ATP Certificate per 61.160(b) and AC 61-139						

 Southeastern Oklahoma State University - Aviation Sciences Institute BS - Aviation Professional Pilot						
General Education: 41 - 46 Credit Hours			Major/Minor: 64 Credit Hours			
Cr	Course	Prerequisites	Semester	Course	Prerequisites	Semester
9 Credit Hours	#ENG 1113		Fall	AVIA 1004 Primary Ground Instruction (141)	N/A	Fall
	#ENG 1213	# ENG 1113		AVIA 1041 Private Flying (141)	N/A	Fall
	#COMM 2213			AVIA 2083 Commercial Performance & Regs (141)	AVIA 1004	Spring
12 Credit Hours	#POSC 1513			AVIA 3003 Meteorology	AVIA 1004	Spring
	#HIST 1513			AVIA 3173 Safety	N/A	Fall
	OR #HIST 1523			AVIA 3511 Commercial Maneuvers Flight (141)	AVIA 2083	Spring
	#ECON 2113			AVIA 3284 Instrument Ground (141)	AVIA 2083, 3123	Fall
	OR #GEO 2723			AVIA 3123 Commercial Operations (141)	AVIA 2083	Spring
	OR #HIST 3513			AVIA 3521 Instrument Flight (141)	AVIA 3284	Fall
	OR #SOC 1113			AVIA 3531 Commercial Exp Building Flight (141)	AVIA 3521	When Ready
	#KIN 1113			AVIA 3451 Intro Adv. Tech. Aircraft (TAA)	AVIA 3531	When Ready
	OR #PSY 1113			AVIA 3541 TAA Flight (Cirrus) (141)	AVIA 3451	When Ready
11 Credit Hours	#BIOL 1114 OR			AVIA 3551 Commercial Certification Flight (141)	AVIA 3541	When Ready
	#BIOL 1404			AVIA 3152 Fundamentals Of Instruction (141)	AVIA 1041, 3284	Fall
	#PHYS 1114			AVIA 3202 Flight Instructor Ground (141)	AVIA 1041, 3284	Fall
	#MATH 2143	#MATH 1513		AVIA 3241 Flight Instructor Flying (141)	AVIA 3123, 3284	When Ready
9 Credit Hours	#HUM 2113/2223/2313			AVIA 3362 Instrument Flight Instructor Ground (141)	AVIA 3202, 3321	Spring
	#ENG 2313/3893 #PHIL 2113/2233			AVIA 3401 Instrument Flight Instructor Flying (141)	AVIA 3241, 3321	When Ready
	(3 to 6 hours)			AVIA 3023 Air Traffic Control	AVIA 3284	Fall
	#MUS 1113/1123/3133			AVIA 4562 Multiengine Ground Instruction (141)	AVIA 3123, 3284	Fall
	#ART 1003/1103/2103/3013/3083			AVIA 4601 Multiengine Flying (141)	AVIA 3164	When Ready
	#THTR 1143/1183/2183/3183			AVIA 3113 Aviation Legal Problems	N/A	Spring
	(3 to 6 hours)			Transport Aircraft Segment		
	#Foreign Language			AVIA 3233 Adv. Aircraft System (B737 Lab)	AVIA 1041, 2083, 3123	Spring
	(0 TO 3 hours)			AVIA 3503 Integration of FMS/Comm. Ops (B 737 Lab)	N/A	Fall
			AVIA 4643 Physiology	N/A	Fall	
#BIM 1513 OR	Can test out of		AVIA 3334 Advanced Aerodynamics (B737 Lab)	MATH 2143/PHYS 1114	Fall	
#CIS 1003	class		AVIA 4663 Contemporary Topics	Senior Standing	Spring	
#ORIE 1002	N/R	Fall	AVIA 4674 Crew Resource Management (Capstone) (B737 Lab)	AVIA 3521, 4562	Spring	
SOSU Graduation Requirements			Aviation Sciences Graduation Requirements			
* Minimum of 124 credit hours			* <i>The last two flight courses accomplished in residence</i>			
* 55 Credit hours of Liberal Arts/Sciences			* <i>Minimum GPA 2.5 in the Aviation major/minor classes</i>			
# Denotes Liberal Arts/Sciences classes			* <i>No grade less than a C in Pilot ground courses</i>			
* Minimum of 60 hours @ Senior institution			* <i>Additional requirements are in the Undergraduate Catalog</i>			
* Additional requirements are in the Undergraduate Catalog			Bolded General Education classes are Professional Pilot Required Classes 			
						4/12/2022

BS - Aviation - Professional Pilot - Degree Cost Estimates

Effective 8/1/2023	AVIA 1041	AVIA 3511	AVIA 3521	AVIA 3531	AVIA 3541	AVIA 3551	AVIA 3241	AVIA 3401	AVIA 4601
Flight Course Title ->	Private Flying * (Private Pilot)	Advanced Commercial Maneuvers Flight (COM 1)	Instrument Rating Flight (IR)	Commercial Experience Building Operations Flight (COM 2)	Commercial TAA Operations Flight (COM 3)	Commercial FAA Certification Flight (COM 4)	Flight Instructor Flying (CFI)	Instrument Flight Instructor Flying (CFII)	Multiengine Flying (Com Multi-Inst)
FAA Certifications received-->	Private Pilot ASEL	NA	Instrument Airplane Single Engine Land	NA	NA	Commercial Instrument Airplane Single Engine Land	Certified Flight Instructor Airplane	Certified Flight Instructor - Instrument Airplane	Commercial Instrument Airplane Multiengine Land
Approximate Timeframes per flight course **	9 months (2 Semesters)	3 months (1 Semester)	3 months (1 Semester)	6 months (2 Semesters)	2 months (< 1 Semester)	2 months (< 1 Semester)	4 Months (1 Semester)	3 Months (<1 Semester)	2 Months (< 1 Semester)
Flight Times per each aircraft									
Solo Cessna C150	10								
Solo Cessna C172R/S		9		51					
Dual Cessna C150	25								
Dual Cessna C172R/S		19	22	17		9	25	15	
Dual Cirrus SR20					15				
Dual-C310R or PA44 Seminole									15
Frasca RTD			13		3				
Estimated Flt hrs per rating/phase	35	28	35	68	18	9	25	15	15
Ground Training (Pre/Post Flight)	15	10	11	14	13	10	20	12	12
Total Cost per Flight Course	\$6,150	\$5,640	\$6,790	\$12,120	\$4,945	\$2,200	\$5,800	\$3,480	\$6,255

Target Credit Hours per Semester > 16

Grand Total Flying ***	\$53,380.00
Approx Flight Cost/Semester ##	\$6,672.50

Fee Description	Resident	Non-Resident #
Tuition & Fees per semester	\$3,771	\$8,192
Room/Meals per semester	\$3,245	\$3,245
Books per semester	\$500	\$500
Cost per Sem	\$7,516	\$11,937
Misc Flight Expense per semester	\$1,155	\$1,155
Budgeted Academic Cost / Semester	\$8,671	\$13,092.25
Academic Costs 4 Years	\$69,370	\$104,738
***Flight Cost - All Ratings (est)	\$53,380	\$53,380

Grand Total	\$122,750	\$158,118
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Avg Total Cost per Semester (8)	\$15,344	\$19,765
Avg Cost per year (4)	\$30,688	\$39,530

Notes:
 * Using C150/152 for Private. If using C172, costs will be \$1050 higher
 ** Timeframes approximate- varies by weather, student aptitude and financing issues, outside jobs, flying in summer, etc.
 *** Costs indicated are FAA program minimums. Actual costs vary by student ability, weather delays, and external factors
 # Most students are eligible for in-state (resident) pricing. Talk to your Admission Counselor to see if you qualify.
 ## Students should plan on Flight costs of \$6,672 per semester



Aircraft	Rate
C150/152	\$130
C172R/S	\$160
Cirrus SR-20 TRAC	\$225
C310/PA44	\$345
Simulation and Instruction	
Boeing 737 Max Simulator (Lab fees Per student)	\$160
Frasca RTD Trainer	\$110
Cirrus Kiosk Trainer	\$40
Ground Instructor	\$40
Flight Instructor	\$40

Miscellaneous Training Expenses	
FAA EOC / Check Ride Costs	\$2,500
Boeing 737 Max Sim Instruction and Briefings (30 hours)	\$1,052
Administrative (software) Charges	\$1,440
FAA Knowledge Exams (6)	\$1,050
B737 MAX Simulation 20 hours per student (Senior Year)	\$3,200
Total 4 year Misc Costs	\$9,242
Misc Expense Per semester	\$1,155

Professional Pilot Flight Program Timeline

ASI Flight Program	Legend: = Flight		 = Ground		Academic Year 1 - Freshman												Academic Year 1 - Sophomore												Academic Year 1 - Junior												Academic Year 1 - Senior											
	Program	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul															
Flight Timeline	Private Flight (AVIA 1041)		COM 1 (AVIA 3511)		Inst (AVIA 3521)		COM 2 (AVIA 3531)		COM 3 (AVIA 3541)		COM 4 (AVIA 3551)		CFI Ft (AVIA 3241)		CFII (AVIA 3401)		Multi (AVIA 4601)																																			
FAA Private Pilot Certification																																																				
Private Ground (Avia 1004)	Private Grnd (Avia 1004)																																																			
Private Flight (AVIA 1041)	Private Flight (AVIA 1041)																																																			
Commercial COMM 1																																																				
Commercial Ground I (AVIA 2083)	Comm Grnd I (AVIA 2083)																																																			
Comm Flight 1 (AVIA 3511)					Com Flight 1 (AVIA 3511)																																															
FAA Instrument Pilot Certification																																																				
Instrument Ground (AVIA 3284)					Instrmnt Grnd (AVIA 3284)																																															
Instrument Flight (AVIA 3521)					Instrument Fit (AVIA 3521)																																															
Comm 2 Experience Building																																																				
Commercial Ground II (AVIA 3123)					Comm Grnd II (AVIA 3123)																																															
Comm Flight 2 (AVIA 3531)					Comm Flight 2 (AVIA 3531)																																															
Comm 3 TAA Flight																																																				
TAA Ground (AVIA 3451)					TAA Ops Ground (AVIA 3451)																																															
Comm Flight 3 (AVIA 3541)					Comm Flight 3 (AVIA 3541)																																															
Comm 4 Commercial FAA Cert																																																				
Comm Flight 3 (AVIA 3541)									Comm Flight 4 (AVIA 3551)																																											
Certificated Flight Instructor																																																				
Fundamentals of Instruction (AVIA 3152)									FOI Grnd (AVIA 3152)																																											
Flight Instructor Ground (AVIA 3202)									CFI Grnd (AVIA 3202)																																											
Flight Instructor Flight (AVIA 3241)													CFI Ft (AVIA 3241)																																							
Instrument Flight Instructor																																																				
CF II Ground (AVIA 3362)																	CFII Ground (AVIA 3362)																																			
CFII Flight (AVIA 3401)																	CFII Ft (AVIA 3401)																																			
Multiengine Commercial																																																				
Multiengine Ground (AVIA 4562)																	Multi Ground (AVIA 4562)																																			
Multiengine Flight (AVIA 4601)																	Multi (AVIA 4601)																																			

