

**CURRICULUM SUMMARY FOR THE  
BACHELOR OF SCIENCE DEGREE  
IN  
AVIATION SCIENCE MANAGEMENT**

**PROFESSIONAL PILOT CONCENTRATION**

**TOTAL CREDITS REQUIRED: 120**

CORE CURRICULUM (STANDARD)*	TCCNS	MAJOR (AVST)	OTHER REQUIREMENTS	
<b>42 credits</b>	<b>EQUIVALENT</b>	<b>51 credits</b>	<b>27 credits</b>	
<b><u>Communication:</u></b>		AVST 103 (3)	AVST 201 (3)	
ENG 131 (3)	ENGL 1301	AVST 105 (3)	ACCT 231 (3)	
ENG 132 (3)	ENGL 1302	AVST 105L (3)	BADM 230 (3)	
<b><u>Mathematics:</u></b>		AVST 218 (3)	MATH 134 (3)	
MATH 133 (3)	MATH 1314	AVST 218L (1)	MATH 241 (4)	
<b><u>Life and physical sciences:</u></b>		AVST 305 (3)	MGMT 300 (3)	
BIO 143 (3), or CHEM 131 (3)	BIOL 1308 CHEM 1311	AVST 311 (3) AVST 312 (3)	MGMT 330 (3)	
PHYS 237 (3)	PHYS 2325	AVST 312L (1)	PHYS 213 (1)	
<b><u>Language, philosophy, and culture:</u></b>		AVST 313 (3)	PHYS 238 (3)	
ENG 2xx (3)	ENG 2XXX	AVST 315 (3)	PHYS 214 (1)	
<b><u>Creative arts:</u></b>		AVST 315L (1)		
MUSIC 239 (3)	HUMA 1315	AVST 380 (3)		
<b><u>American history:</u></b>		AVST 380L (1)		
HIST 231 (3)	HIST 1301	AVST 400 (3)		
HIST 232 (3)	HIST 1302	AVST 400L (1)		
<b><u>Government/political science:</u></b>		AVST 401 (3)		
POLS 235 (3)	GOVT 2305	AVST 403(3)		
POLS 236 (3)	GOVT 2306	AVST 408 (3)		
<b><u>Social and behavioral sciences:</u></b>		AVST 408L (1)		
ECON 231 (3)	ECON 2301	AVST 425 (3)		
<b><u>Institutional Options:</u></b>				
SC 135(3) or 136 (3)	SPCH 1321 or SPCH 1315			
CS 116 (3)	COSC 1301			

\*Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.

**BACHELOR OF SCIENCE DEGREE IN AVIATION SCIENCE MANAGEMENT**

**PROFESSIONAL PILOT CONCENTRATION**

**4 YEAR DEGREE PLAN - TOTAL CREDITS: 120**

<b>First Year</b>	<i>First Semester</i>		<i>Second Semester</i>	
	ENG 131 English I	3	ENG 132 English II	3
	MATH 133 College Algebra	3	MATH 134 Trigonometry	3
	AVST 103 Private Pilot Ground	3	AVST 218 Instrument Ground	3
	AVST 105 Private Pilot Flight	3	AVST 218L Instrument Flight Lab	1
	AVST 105L Private Pilot Lab	3	CS 116 Intro to Computer Science	3
			SC 135 Business Profess. Communication	3
		15 hrs		16 hrs

<b>Second Year</b>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	CHEM 131 General Chemistry	3	PHYS 238 College Physics II	3
	AVST 312 Commercial Pilot Certification	3	PHYS 214 College Physics Lab	1
	AVST 312L Commercial Pilot Cert. Lab	1	AVST 311 Intermediate Flight	3
	PSY 237 College Physics I	3	AVST 201 Flight Meteorology	3
	PSY 213 College Physics Lab	1	POLS 236 American Political Systems II	3
	MATH 241 Calculus	4	ENG 2XX Upper Level English	3
	POLS 235 American Political System I	3		
	18 hrs		16 hrs	

<b>Third Year</b>	<i>Fifth</i>		<i>Sixth Semester</i>	
	HIST 231 Soc. Political History US I	3	HIST 232 Soc. Political History of US II	3
	AVST 315 Multi Engine Rating	3	MUSIC 239 Fine Arts and Daily Living	3
	AVST 315L Multi-Engine Rating Lab	1	AVST 380 CFI Airplane	3
	MGMT 300 Principles of Management	3	AVST 380L CFI Airplane Lab	1
	AVST 305 Fundamentals of Avionics	3	ECON 231 Principles of Economic I	3
	BADM 230 Advance Communication Skills	3		
		16 hrs		13 hrs

<b>Fourth Year</b>	<i>Seventh Semester</i>		<i>Eighth Semester</i>	
	AVST 400 CFI Instrument	3	AVST 425 Flight Physiology	3
	AVST 400L CFI Instrument Lab	1	ACCT 231 Principles of Accounting I	3
	AVST 313 International Flight Theory	3	AVST 401 Advance Aerodynamics	3
	MGMT 330 Organizational Behavior	3	AVST 408 Multi Engine CFI	3
	AVST 403 Turbo Prop Familiarization	3	AVST 408L Multi Engine CFI Lab	1
		13 hrs		13 hrs

## Aviation Science Management Courses

- AVST 305**      **Fundamentals of Avionics**      **(3)**  
Understanding the principle of theory, and technology of modern avionics systems. Mathematical and conceptual approaches for various subsystems including , but not limited to sensory, display, navigation, air date, autopilots, and flight management are examined individually and as an integrated whole.
- AVST 312L**      **Commercial Pilot Certificatio7. Lab**      **(1)**  
Laboratory course providing students opportunities to learn advanced aero dynamics, aircraft performance, precision maneuvers, extended cross-country, night fight, and FAA regulations. Co-requisite: AVST 312.
- AVST 315L**      **Multi-Engine Rating Lab**      **(1)**  
Provides the student with the flight time and instruction to complete all maneuvers and operations required in preparation to earn the Federal Aviation Administration (FAA) Multiengine Airplane Class Rating. Co-requisite: AVST 315.
- AVST 380**      **Certified flight Instructor - Airplane**      **(3)**  
A study of the fundamentals of air plane flight instruction involving educational principles of the learning and teaching process, communication, teaching methods, critiquing, evaluating, and planning instruction activity. Pre-requisite: AVST 315.
- AVST 380L**      **Certified flight Instructor – Airplane Lab**      **(1)**  
Provides the student with the flight time & instruction to demonstrate, teach, and evaluate their performance in all maneuvers and operations required to earn the Private Pilot and Commercial Pilot Certificates.
- AVST 400**      **Certified flight Instructor – Instrument**      **(3)**  
Academic studies in preparation for the FAA written and oral examinations for the CFI Instruments Certificate. Information covered includes a review of aeronautical skill and the body of knowledge required of an Instrument rated pilot, and methods of imparting this knowledge to students. Pre-requisite: AVST 315. Co-requisite AVST 400L
- AVST 400L**      **Certified flight Instructor – Instrument Lab**      **(1)**  
Flight time and instruction to demonstrate, teach, and evaluate performance of students in all maneuvers and operations required to earn the FAA Instrument Rating. The student will be prepared for the administration of the oral and practical examinations administered by the FAA. Pre-requisite: AVST 315. Co-requisite AVST 400
- AVST 408**      **Multi Engine -CFI**      **(3)**  
Prerequisite AVST 400. Co-requisite: AVST 408L.
- AVST 408L**      **Multi Engine –CFI Lab**      **(1)**  
Provides the flight time and instruction needed to demonstrate, teach and evaluate performance of students in all maneuvers and operations required to earn the FAA Multiengine Rating. Co-requisite: AVST 408