

# AVIATION SCIENCE BACHELOR OF SCIENCE DEGREE PROGRAM

# DEPARTMENTAL REQUIREMENTS

The Aviation Sciences program consists of 120 total credit hours. Students complete 34 credit hours of Aviation core courses and choose one of four concentrations. The concentration areas are Professional Pilot, Aviation Electronics and Aviation Management and each consists of 33 credit hours. The curricula include 41 credit hours of general education courses, 6 credit hours of support courses, and 6 hours of Aviation elective courses.

# **CURRICULUM GUIDE**

I.	<u>General E</u>	Educatio	41 Credits									
	Curriculu	ım Area	I	9 Credits								
	ENGL 2	203	Fundamentals of Contemporary Speech	3								
	Arts and H	Iumaniti	es Course as approved by the University	3								
	Arts and H	Iumaniti	es Course as approved by the University	3								
	Curriculu	ım Area	П	6 Credits								
	Elective S	ocial Sci	iences course	3								
	(SOCI 101	I, POLI 2	200, ECON 201, ECON 202)									
	Elective B	ehaviora	al Sciences course	3								
	(PSYC 10	0, CRJS	101, SOCI 201)									
	Curriculu	ım Area	III	7 Credits								
	Students n	Students must select two science courses, one of which must include a laboratory										
	Curriculu	ım Area	IV	6 Credits								
			e 6 credits of math, with at least one course at or above the lo									
		Aviation Electronics and Aviation Software students are advised to take MATH 112 and one other Math course fulfill Curriculum Area IV requirements.										
	Turrini Curr	illuiuiii	Alea IV requirements.									
	Curriculu	ım Area	V	9 Credits								
	ENGL	101	Basic Composition I	3								
	ENGL	102	Basic Composition II	3								
	ENGL 3	305	Technical Writing or									
		310	Advanced Composition	3								
	Curriculu	ım Area	VI	4 Credits								
	AVSC	100	First Year Orientation with Aviation	1								
	EXSC	111	Personalized Health Fitness or									
		XXX	Aviation Course as approved by Department	3								
II.	Support F	Requirer	nents	6 Credits								
	Students w											
	AVSC 3	390	Aviation Applications of Statistics and Research Design o	<b>r</b> 3								
		210	Elementary Statistics	3								
	AVSC	170	Software and Simulation Applications in Aviation or	3								
	BUED 2	212	Computer Concepts/Applications I	3								

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III.	<u>Aviatio</u>	1 Core Req	<u>uirements</u>	<u>34 Credits</u>				
	AVSC AVSC AVSC AVSC AVSC AVSC	112 131 152 201 202 231	Aviation Fundamentals Air Transportation Meteorology & Environment The National Airspace Syster Air Traffic Control Airline Management I				3 3 3 3 3 3	
	AVSC AVSC AVSC AVSC AVSC AVSC	241 305 331 421 441 490	Aviation Safety Aviation Career Preparation Aviation Law Aviation Psychology Human Factors in Aviation Senior Capstone in Aviation				3 1 3 3 3 3	
IV.	Concent	tration Red	<u>quirements</u>			<u>33 Credits</u>		
		ot Concen						
AVSC AVSC AVSC AVSC AVSC AVSC AVSC AVSC	141 143 153 163 161 251 252 <b>on Mana;</b> 132 201 202 201	Private Private Instrum Comme Comme <u>gement Co</u> Introdu Introdu Introdu	Pilot Ground Lab Flight I Flight II ent Rating Flight ent Rating Ground ercial Pilot Ground ercial Pilot Flight I <u>ncentration</u> ction to Aviation Business etory Financial Accounting etory Corp. & Mang. Acct. les of Economics I	1 1 2 3 3 3 2 3 3 3 3 3 3 3	AVSC AVSC AVSC AVSC AVSC AVSC AVSC AVSC	253 254 302 311 342 451 452 472 261 355 431 432	Commercial Pilot Flight II Commercial Pilot Flight III Advanced Aircraft Systems Aerodynamics and Aircraft Per. Flight Physiology Certified Flight Inst. Airplane – Grnd. Certified Flight Inst. Airplane – Flt. <u>or</u> Multi-Engine Pilot Flight Aviation Organization and Leadership Airport Planning Maintenance Management Airline Management II	1 1
ECON AVSC	202 232	Princip	les of Economics II Management	33	AVSC	442	Safety Management	3
AVIAL AVSC EDTE EDTE EDTE EDTE EDTE	302 105 202 205 210 215	Advanc Electric Electron Electric	ed Aircraft Systems al Circuit Technology I nics al Circuit Technology II nic Troubleshooting Lab	3 3 3 3 3 3	EDTE ETEE ETEE ETEE ETEE	240 303 335 355 425	Communication Electronics Circuit Theory III Logic and Switching Advanced Electronics Communication and Microwave Tech	3 3 3 3 3

#### V. Electives\*

### <u>6 Credits</u>

Students will choose AVSC or other courses to complete at least 6 credits. \*Elective courses cannot be an AVSC course that is required elsewhere in the curriculum.