



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 Education Courses</u>	<u>41 Credits</u>
	Curriculum Area I	9 Credits
	ENGL 203 Fundamentals of Contemporary Speech	3
	Arts and Humanities Course as approved by the University	3
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	Curriculum Area II	6 Credits
	Elective Social Sciences course (SOCI 101, POLI 200, ECON 201, ECON 202)	3
	Elective Behavioral Sciences course (PSYC 100, CRJS 101, SOCI 201)	3
	Curriculum Area III	7 Credits
	<u>Students must select two science courses, one of which must include a laboratory</u>	
	Curriculum Area IV	6 Credits
	<u>Students must take 6 credits of math, with at least one course at or above the level of MATH 109</u>	
	Aviation Electronics and Aviation Software students are advised to take MATH 112 and one other Math course to fulfill Curriculum Area IV requirements.	
	Curriculum Area V	9 Credits
	ENGL 101 Basic Composition I	3
	ENGL 102 Basic Composition II	3
	ENGL 305 Technical Writing or	
	ENGL 310 Advanced Composition	3
	Curriculum Area VI	4 Credits
	AVSC 100 First Year Orientation with Aviation	1
	EXSC 111 Personalized Health Fitness or	
	AVSC XXX Aviation Course as approved by Department	3
II.	<u>Support Requirements</u>	<u>6 Credits</u>
	<i>Students will take one Supportive Math course and one Supportive Computing course</i>	
	AVSC 390 Aviation Applications of Statistics and Research Design or	3
	MATH 210 Elementary Statistics	3
	AVSC 170 Software and Simulation Applications in Aviation or	3
	BUED 212 Computer Concepts/Applications I	3

Aviation Electronics Students will take MATH 211 to fulfill Supportive Math Requirements.

III. Aviation Core Requirements 34 Credits

AVSC 112	Aviation Fundamentals	3
AVSC 131	Air Transportation	3
AVSC 152	Meteorology & Environmental Issues	3
AVSC 201	The National Airspace System	3
AVSC 202	Air Traffic Control	3
AVSC 231	Airline Management I	3
AVSC 241	Aviation Safety	3
AVSC 305	Aviation Career Preparation	1
AVSC 331	Aviation Law	3
AVSC 421	Aviation Psychology	3
AVSC 441	Human Factors in Aviation	3
AVSC 490	Senior Capstone in Aviation	3

IV. Concentration Requirements 33 Credits

Professional Pilot Concentration

AVSC 141	Private Pilot Ground Lab	1	AVSC 253	Commercial Pilot Flight II	3
AVSC 143	Private Flight I	1	AVSC 254	Commercial Pilot Flight III	2
AVSC 153	Private Flight II	2	AVSC 302	Advanced Aircraft Systems	3
AVSC 163	Instrument Rating Flight	3	AVSC 311	Aerodynamics and Aircraft Per.	3
AVSC 161	Instrument Rating Ground	3	AVSC 342	Flight Physiology	3
AVSC 251	Commercial Pilot Ground	3	AVSC 451	Certified Flight Inst. Airplane – Grnd.	3
AVSC 252	Commercial Pilot Flight I	2	AVSC 452	Certified Flight Inst. Airplane – Ft. <u>or</u>	1
			AVSC 472	Multi-Engine Pilot Flight	1

Aviation Management Concentration

AVSC 132	Introduction to Aviation Business	3	AVSC 261	Aviation Organization and Leadership	3
ACCT 201	Introductory Financial Accounting	3	AVSC 355	Airport Planning	3
ACCT 202	Introductory Corp. & Mang. Acct.	3	AVSC 431	Maintenance Management	3
ECON 201	Principles of Economics I	3	AVSC 432	Airline Management II	3
ECON 202	Principles of Economics II	3	AVSC 442	Safety Management	3
AVSC 232	Airport Management	3			

Aviation Electronics Concentration

AVSC 302	Advanced Aircraft Systems	3	EDTE 240	Communication Electronics	3
EDTE 105	Electrical Circuit Technology I	3	ETEE 303	Circuit Theory III	3
EDTE 202	Electronics	3	ETEE 335	Logic and Switching	3
EDTE 205	Electrical Circuit Technology II	3	ETEE 355	Advanced Electronics	3
EDTE 210	Electronic Troubleshooting Lab	3	ETEE 425	Communication and Microwave Tech	3
EDTE 215	Electronics II	3			

V. Electives* 6 Credits

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.*