

**Kansas Board of Regents  
Academic Affairs  
PROPOSAL FOR A NEW DEGREE PROGRAM**

**Format.** Font: Times New Roman, 11-point; Margins: top/bottom -- 1 inch; left/right -- .08 inch  
Should a scroll bar appear, you have exceeded your limit. Only what appears in the designated space will be posted.

Please check one:      Baccalaureate Program              Master's Program              Doctoral Program

**A. General Information**

1. Institution:      ESU      FHSU      K-State      KU      KUMC      PSU      WSU  
(*check one*)

2. Program Identification:

Program Title: \_\_\_\_\_

Degree to be Offered: \_\_\_\_\_

Responsible Department or Unit: \_\_\_\_\_

CIP Code: \_\_\_\_\_ Proposed Implementation Date: \_\_\_\_\_

Total Number of Semester Credit Hours for the Degree: \_\_\_\_\_

**B. Justification and Program Demand**

1. Justification:

In the space below, provide a brief description of the program and indicate why this program is important to your institution and to the state of Kansas. (Please refer to **Format** directions above.)



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2. Demand: Select one of the two options for indicating student demand:

Option A. Survey of Student Interest

Number of surveys administered: ..... \_\_\_\_\_  
Number of completed surveys returned: ..... \_\_\_\_\_  
Percentage of students interested in program: ... \_\_\_\_\_

Option B. Market Analysis

Attach a one-page analysis that reflects trends, changing student demographics, curricular growth patterns, etc., to forecast student demand for this program. *(Please note formatting information and provide citations for sources.)*

3. Demand: Projected Enrollment for the Initial Three Years of the Program

Indicate how many students/credit hours are projected in the charts below.

Year	Headcount		Sem Credit Hrs	
	Full-Time	Part-Time	Full-Time	Part-Time
Implementation				
Year 2				
Year 3				

4. Demand: Employment

In the space below, provide a brief narrative of projected job openings for graduates of this program. This may include such sources as the Kansas labor market information from the KS Department of Labor and/or the US Department of Labor. *(Please note formatting information and provide citations for sources.)*

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**C. Curriculum**

1. Admission/Requirements:

In the space below, describe the admission standards for the program.

2. Courses:

Attach a one-page semester-by-semester degree plan.

**D. Core Faculty**

1. Inventory

Provide an inventory of core faculty directly involved with program. For each faculty member, provide the following information.

If applicable, place an \* next to the faculty member who will direct this program.

*Rank* refers to *Adjunct, Instructor, Assistant Professor, Associate Professor, Professor*, etc.

*FTE* refers to *Full Time Equivalent* to this program (1.0 = full time)

Faculty Name	Rank	Highest Degree	Tenure Track Y/N	Academic Area of Specialization	FTE to Proposed Program

2. Identify the number of graduate assistantships that will be assigned to the program: \_\_\_\_\_

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**E. Expenditures and Revenue:**

Please complete the information below and provide explanations\* as clearly-labeled attachments.

<b>I. EXPENDITURES</b>	<i>List Amounts in Dollars</i>		
	First FY	Second FY	Third FY
<b>Personnel – Reassigned or Existing Positions*</b> <i>(*Provide written explanations as necessary and attach to this document)</i>			
Faculty			
Administrators <i>(other than instruction time)</i>			
Graduate Assistants			
Support Staff for Administration <i>(e.g., secretarial)</i>			
Fringe Benefits <i>(total for all groups)</i>			
Other Personnel Costs			
<b>Total Existing Personnel Costs – Reassigned or Existing</b>			
<b>Personnel – New Positions*</b> <i>(*Provide written explanations as necessary and attach to this document)</i>			
Faculty			
Administrators <i>(other than instruction time)</i>			
Graduate Assistants			
Support Staff for Administration <i>(e.g., secretarial)</i>			
Fringe Benefits <i>(total for all groups)</i>			
Other Personnel Costs			
<b>Total New Personnel Costs -- New Positions</b>			
<b>Start-up Costs – One-Time Expenses*</b> <i>(*Provide written explanations as necessary and attach to this document)</i>			
Library/learning resources			
Equipment/Technology			
Physical Facilities: Construction or Renovation			
Other			
<b>Total Start-up Costs</b>			
<b>Operating Costs – Recurring Expenses*</b> <i>(*Provide written explanations as necessary and attach to this document)</i>			
Supplies/Expenses			
Library/learning resources			
Equipment/Technology			
Travel			
Other			
<b>Total Operating Costs</b>			
<b>GRAND TOTAL COSTS</b>			

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<b>II. FUNDING SOURCES*</b> <i>(projected as appropriate)</i> <i>(*Provide written explanations as necessary and attach to this document)</i>	<i>List Amounts in Dollars</i>			
	Current	First FY (New)	Second FY (New)	Third FY (New)
Tuition / State Funds				
Student Fees				
Other Sources **				
<b>GRAND TOTAL FUNDING</b>				
<b>Projected Surplus/Deficit (+/-)</b> (Grand Total FUNDING minus Grand Total Costs)				

\*\*Other Sources:

*As appropriate for each source, please describe the length of financial commitment and note the expiration date. (Examples could include federal, state, and/or private grants, etc.)*

**Institutional Contact Person:**

Name: \_\_\_\_\_ E-mail: \_\_\_\_\_

Date of Proposal Submission: \_\_\_\_\_

Submit completed form to Max Fridell, mfridell@ksbor.org.

Please submit the following with this proposal:  
 B.2: One-Page Market Analysis (if you chose *Option B*)  
 C.2: One-Page Semester-By-Semester Degree Plan  
 E: Expenditures and Funding Sources (as needed)

This curriculum prepares students for a dynamic career in the aviation industry. Successful completion of this degree gives a solid academic base and prepares the student for lifelong learning.

**Proposed**  
**Associate of Applied Science in Aviation**  
**60 Credit Hours**

**Fall 1<sup>st</sup> Semester (14 Credit hours)**

AVT 100	Introduction to Aviation.....	3
MATH 100	College Algebra.....	3
PPIL 111	Private Pilot.....	4
PPIL 113	Private Pilot Flight Lab.....	1
	Humanities/Social Science Elective.....	3

**Spring 2<sup>nd</sup> Semester (16 Credit hours)**

AVT 242	Aviation Meteorology.....	3
ENGL 100	Expository Writing I.....	3
MATH 150	Plane Trigonometry.....	3
PPIL 112	Professional Instrument Pilot.....	3
PPIL 114	Professional Instrument Pilot Flight Lab.....	1
PSYCH 110	General Psychology.....	3

**Fall 3<sup>rd</sup> Semester (15 Credit hours)**

AVT 386	Aerodynamics.....	3
COMM 106	Public Speaking I.....	3
PHYS 113	General Physics I.....	4
PPIL 211	Professional Commercial Pilot.....	3
PPIL 212	Professional Instrument Pilot Flight Lab I.....	2

**Spring 4<sup>th</sup> Semester (15 Credit hours)**

AVT 340	Human Factors in Aviation.....	3
PPIL 210	Aviation Safety.....	3
PPIL 213	Professional Commercial Pilot Flight Lab II.....	2
PPIL 262	Multi-Engine Ground School.....	1
PPIL 263	Multi-Engine Flight Lab.....	1
	Aviation Elective.....	2
	Economics Elective.....	3

## 2018 BOEING PILOT & TECHNICIAN OUTLOOK

### PERSONNEL DEMAND BY SEGMENT AND REGION

(2018-2037 values)

Region	Asia Pacific	North America	Europe	Middle East	Latin America	Africa	Russia & C. Asia	World
<b>Growth Measures</b>								
Economic growth (GDP) %	3.9%	2.0%	1.7%	3.5%	3.0%	3.3%	2.0%	2.8%
Airline traffic (RPK) %	5.7%	3.1%	3.8%	5.2%	5.9%	6.0%	3.9%	4.7%
Airplane fleet (%)	4.6%	1.8%	3.0%	4.9%	4.2%	4.4%	2.6%	3.5%
<b>Commercial Personnel Demand</b>								
Pilots	240,000	127,000	118,000	60,000	43,000	24,000	23,000	635,000
Technicians	242,000	120,000	108,000	63,000	42,000	23,000	24,000	622,000
Cabin Crew	317,000	159,000	180,000	95,000	51,000	28,000	28,000	858,000
<b>Total</b>	<b>799,000</b>	<b>406,000</b>	<b>406,000</b>	<b>218,000</b>	<b>136,000</b>	<b>75,000</b>	<b>75,000</b>	<b>2,115,000</b>
<b>Business Aviation Personnel Demand</b>								
Pilots	7,000	59,000	16,000	2,000	8,000	3,000	1,000	96,000
Technicians	6,000	55,000	15,000	2,000	7,000	3,000	1,000	89,000
Cabin Crew	4,000	15,000	7,000	2,000	2,000	1,000	1,000	32,000
<b>Total</b>	<b>17,000</b>	<b>129,000</b>	<b>38,000</b>	<b>6,000</b>	<b>17,000</b>	<b>7,000</b>	<b>3,000</b>	<b>217,000</b>
<b>Civil Helicopter Personnel Demand</b>								
Pilots	14,000	20,000	12,000	2,000	6,000	2,000	3,000	59,000
Technicians	9,000	14,000	9,000	1,000	6,000	2,000	2,000	43,000
<b>Total</b>	<b>23,000</b>	<b>34,000</b>	<b>21,000</b>	<b>3,000</b>	<b>12,000</b>	<b>4,000</b>	<b>5,000</b>	<b>102,000</b>
<b>Total Personnel Demand</b>								
Pilots	261,000	206,000	146,000	64,000	57,000	29,000	27,000	790,000
Technicians	257,000	189,000	132,000	66,000	55,000	28,000	27,000	754,000
Cabin Crew	321,000	174,000	187,000	97,000	53,000	29,000	29,000	890,000
<b>Total</b>	<b>839,000</b>	<b>569,000</b>	<b>465,000</b>	<b>227,000</b>	<b>165,000</b>	<b>86,000</b>	<b>83,000</b>	<b>2,434,000</b>

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Appendix A

Assessment and Performance Improvement Plan

<b>Program Outcome (University Outcome)</b>	<b>AABI #</b>	<b>Program Learning Outcomes</b> What do the program faculty expect all students to know, or be able to do, as a result of completing this program? v <ul style="list-style-type: none"> <li>• Note: These should be measurable, and manageable in number (typically 4-6 are sufficient)</li> </ul>	<b>Assessment Mapping</b> From what specific courses (or other educational/professional experiences) will artifacts of student learning be analyzed to demonstrate achievement of the outcome?	<b>Assessment Methods</b> What specific artifacts of student learning will be analyzed?	<b>Use of Assessment Data</b> How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work?
1. Demonstrate the ability to work on diverse multi-disciplinary teams. (Diversity)	3.3.1c	Work effectively on multi-disciplinary and diverse teams	AVT 340 Human Factors in Aviation	Group presentation	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
2. Demonstrate a global perspective on sustainable aviation business practices. (Knowledge)	3.3.2.4	Discuss the impact of national and international law, regulations, and labor issues on aviation operations.	AVT 340 Human Factors in Aviation	Selected questions on the final	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.



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3. Choose ethical courses of action within the operational environment. (Professional integrity)	3.3.1d	Make professional and ethical decisions.	AVT 340 Human Factors in Aviation	Final (selected questions)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
4. Demonstrate a lifelong commitment to personal excellence through service and continuing education. (Knowledge)	3.3.1f	Engage in and recognize the need for life-long learning.	AVT 340 Human Factors in Aviation	Group project	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.1g	Assess contemporary issues.	AVT 340 Human Factors in Aviation	Current event presentation and discussion	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.2.1	Describe the professional attributes, requirements or certifications, and planning applicable to aviation careers.	PPIL 211 Professional Commercial Pilot Ground School	Final)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.

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5. Appraise unsafe operational conditions within the aviation environment. (Critical thinking)	3.3.1h	Use the techniques, skills, and modern technology necessary for professional practice.	PPIL 210 Aviation Safety	Risk assessment exercise	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.2.3	Evaluate aviation safety and the impact of human factors on safety.	PPIL 210 Aviation Safety	Risk assessment exercise	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.2.6	Discuss the impact of meteorology and environmental issues on aviation operations.	AVT 242 Aviation Meteorology	Final project	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
6. Evaluate the effectiveness of oral and written communication skills. (Communication)	3.3.1e	Communicate effectively, using both written and oral communication skills.	AVT 340 Human Factors in Aviation	Research paper (written) Research presentation (oral)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.

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7. Creatively solve technical problems related to the aviation workplace using math and science. (Critical thinking)	3.3.1a	Apply mathematics, science, and applied sciences to aviation related disciplines.	AVT 386 Aerodynamics	Quizzes (selected questions)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.1b	Analyze and interpret data.	AVT 386 Aerodynamics	Quizzes (selected questions)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.2.2	Describe the principles of aircraft design, performance, and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems.	AVT 386 Aerodynamics	Aircraft design worksheets	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.
	3.3.2.5	Explain the integration of airports, airspace, and air traffic control in managing the National Airspace System.	PPIL 112 Professional Instrument Pilot Ground School	Quiz (selected questions covering procedures and airport operations)	This will be reviewed yearly at the assessment meeting. This meeting occurs after the feedback report is received from the KSU Office of Assessment. The review will determine if the results are still valid and methods for improvement.