

Aeronautical Technology – Plan of Study Fall 2009 – Indianapolis Statewide Technology

Name: _____ Entry Date _____

Associate Degree Requirements

Associate courses		Cr	Associate courses		Cr
COMM R110		3	PSY B104		3
ENG Sel ²		3	AT		18
MATH 15900		5	Electives		24
MATH 22100		3			
PHYS 20000		3		Tot.	62

Bachelor of Science Courses

Fifth Sem	Substitute	Gr	Cr	Sixth Sem	Substitute	Gr	Cr	Seventh Sem	Substitute	Gr	Cr	Eighth Sem	Substitute	Gr	Cr
AT 30000			3	AT 33800			3	AT 34500			3	AT 48100			3
AT 34600			2	AOT Selective ¹			3	AT 38100			3	AT Capstone ¹			3
AT 40000			1	AOT Selective ¹			3	AT 41200			3	HUM Elective ³			3
AOT Selective ¹			3	BUS A201			3	AT 47500			3	OLS/MGMT Selective ³			3
ENG Sel ²			3	ECON E201 or E202			3	AOT Selective ¹			3	Tech Com Selective ³			3
STAT 30100			3					Free Elective			2	Globalization ⁴			0
			15				15				17				15

¹ All B.S. degree students must choose one of the available AOT focus areas, and AOT Selective courses (12 credit hours minimum) must come from the focus area selected. See reverse side of this sheet for information regarding focus areas. Capstone course selection (Sem 8) is based on focus area selection. Students in the Aircraft Operations Management focus area must take AT 437 or AT 438. Students in the Logistics and Supply Chain Management focus area must take IT 435. Students in the Advanced Manufacturing Operations focus area must take IT 450.

² ENG Selective (Assoc): ENG W131 or W140; ENG Selective (Sem 5): ENG W132, W231, or W331.

³ Humanities Elective (Sem 8): any humanities course. OLS/MGMT Selective (Sem 8): Any OLS, MGMT, or BUS course at or above the 300 level. Technical Communications Selective (Sem 8): COM C180, C228, or C380.

⁴ Globalization: Due to the international nature of the aviation industry, all B.S. degree students must complete a globalization requirement using one of the following options:

- a. Complete any Purdue, IUPUI, or Indiana University-sponsored study abroad program lasting at least 7 days.
- b. Complete an internship or approved international research project that involves at least 7 days of international travel.
- c. Provide documentation of having lived/traveled outside the U.S. for at least 15 days after a student's 12th birthday.
- d. Complete or place out of the Level IV course in any foreign language.
- e. Provide proof of your attendance at 8 International events approved by your faculty advisor, student services coordinator, or location director. Complete a 3-5 page report covering the content and application to aviation for each event.

AERONAUTICAL TECHNOLOGY FOCUS AREAS

1. Aircraft Operations Management

All Aircraft Operations Management students must complete 12 hours from the following:

AT 35900 Airport Management
AT 36900 Air Traffic Control
AT 43300 Aviation Internship
AT 45100 Airport Operations
AT 45900 Airport Manager Certification
OLS 25200 Human Behavior in Organizations
OLS 26300 Ethical Decisions in Leadership
OLS 27400 Applied Leadership
OLS 32700 Leadership for a Global Workforce
OLS 37500 Training Methods
OLS 39000 Leadership Theories and Processes

Or students may complete their additional selective course requirements using the one of the options in the ADDITIONAL OPTIONS box below.

2. Logistics And Supply Chain Management

All Logistics and Supply Chain Management students must complete:

IT 23000 Industrial Supply Chain Management
IT 43200 Financial Transactions in Distribution
IT 43400 Global Transportation and Logistics Management

AND

Additionally complete 3 credit hours from any of the following:
IT 33000 Industrial Sales and Sales Management
IT 33200 Purchasing, Inventory, and Warehouse Management
IT 34500 Automatic Identification and Data Capture

3. Advanced Manufacturing Operations

All Advanced Manufacturing Operations students must complete:

IT 10400 Industrial Organization
IT 21400 Introduction to Lean Manufacturing
IT 28100 Industrial Safety or IT 351 Advanced Industrial Safety and Health Management

AND

Additionally complete 3 credit hours from any of the following:
IT 23000 Industrial Supply Chain Management
IT 33000 Industrial Sales and Sales Management
IT 34200 Introduction to Statistical Quality
IT 38500 Industrial Ergonomics
IT 33200 Purchasing, Inventory, and Warehouse Management
IT 34500 Automatic Identification and Data Capture
IT 38100 Total Productive Maintenance

ADDITIONAL OPTIONS

Students in Aircraft Operations Management may use one of the following options to complete the requirement for 12 additional credit hours of selective coursework:

1. Complete the requirements for a minor or certificate program from any of the following schools at IUPUI: Kelly School of Business, School of Public & Environmental Affairs, or School of Engineering & Technology.

OR

2. Complete 4 consecutively sequenced foreign language courses in 1 language (ex. FR 101, 102, 201, 202). Students who test out of Levels I, II, and/or III of a language may substitute free electives for each course they test out of; such students must satisfactorily complete the Level IV.

OR

3. Complete AT 14400, 14500, 21000, 21100, 24300, 24500, 24800, 24900, 25300 and 25400. An FAA commercial/instrument pilot certificate may be presented to establish credit in these courses. Students will be awarded credit using AT 46200, Occupational Cert. and Licensure. Such credit will most likely NOT transfer to another institution.

CTI Air Traffic Control Endorsement

All AT students may take the required CTI ATC courses if desired. To be eligible to add the CTI endorsement to your degree program you must complete your degree with the following specific courses included in the degree program. Students must obtain a grade of 'C' or better in the required courses to be eligible for CTI endorsement.

AT 10000 Introduction to Aviation
AT 10600 Basic Aircraft Science
AT 14400 Fundamentals of Flight
AT 18700 Aircraft Propulsion and Operating Systems
AT 28100 Fundamentals of Air Traffic Control
AT 28500 ATC Procedures and Weather
AT 36900 Air Traffic Control
AT 47900 Control Tower Operator
AT 48100 Aviation Safety

Completion of the online **Air Traffic Control Preparation** course and associated examination (additional charge) is also required.