

Aeronautical Engineering Technology - Plan of Study Fall 2007

Name: _____ Entry Date _____

823 Associate of Applied Science Courses (AEROT-AS)

* = FALL ONLY COURSES ** = SPRING ONLY COURSES

First Sem.	Substitute	Gr		Second Sem.	Substitute	Gr		Third Sem.	Substitute	Gr		Fourth Sem.	Substitute	Gr	
AT100*			1	AT 108**			4	AT 208* (166)			3	AT 265**			4
AT105*			3	AT 207**			3	AT 267*			3	AT 271**			3
AT 106			3	AT 262**			4	AT 272*			3	AT 278**			3
MA 159			5	ENGL COMP ¹			3	ECON 210			3	MA 221			3
CGT 163			2	PSY 120			3	PHYS 218			4	COM 114			3
Total			14	Total			17	Total			16	Total			16

Students must complete **ALL** the courses listed above before they will be permitted to enroll in 300-400 level aviation courses.

(63)

804 Bachelor of Science Courses (AEROENGT-BS)

Fifth Sem.	Substitute	Gr		Sixth Sem.	Substitute	Gr		Seventh Sem.	Substitute	Gr		Eighth Sem.	Substitute	Gr	
AT 300			3	AT 308**			3	AT 372			3	AT 402			3
AT 307*			3	AT 335** (275)			4	AT408*			3	AT 497**			3
AT 363*			3	AT 370			3	AT 445* (375)			4	OLS/MGMT Selective ¹			3
AT 400			1	AT 376			3	AT 476			3	HUM Elective ¹			3
STAT 301T			3	AT 385**			3	AT 496*			1	TECH COM ¹			3
Free Elective			2					Free Elective			1	Globalization			
Total			15	Total			16	Total			15	Total			15

Globalization: Due to the international nature of the aviation industry, all B.S. degree students must complete a globalization requirement using any ONE of the following seven methods:

(61)

1. Complete a study abroad term
2. Complete an internship outside the U.S.
3. Complete an AT-sponsored study trip (AT 452 & 453)
4. Provide documentation of having lived/traveled outside the U.S.
for at least 90 days after a student's 12th birthday (does not have to be consecutive)
5. Complete one of the following courses: AGECE 250, 340; AGRY 350; ANTH 205, 303; COM 303; CSR 332; OLS 456; HIST 104, 105, 241, 243, 272, 341; IDIS 380; JPN 280; CHNS 280; POL 130, 141, 235; SOC 338, 341.
6. Complete or place out of the Level IV course in any foreign language
7. Participate in an approved international research project that involves at least 5 days of international travel

Aeronautical Engineering Technology

WHAT IS ABET?

Aeronautical Technology is seeking accreditation from ABET, Inc. (formerly the Accreditation Board for Engineering & Technology) to become an aerospace/aeronautical engineering technology program. Students who started in AOT in fall 2004 will be the first group to graduate under the new ABET curriculum in May 2008. The AT department anticipates being reviewed for accreditation by ABET during the fall 2008 semester. Results will be announced during the spring 2009 semester. If the program is accredited, graduates from the May 2008 class and later will be referred to as engineering technology graduates. The Aeronautical Technology remains in effect until accreditation is received and we are not allowed to refer to any graduate as engineering technology until that time.

Becoming Aerospace/Aeronautical Engineering Technology will provide additional career opportunities for our students. Current AOT students perform well in manufacturing and airline maintenance management but are limited by employment classification in some cases since the program is not ABET accredited.

Transitioning to ABET accreditation requires some upgrades and improvements to the existing AOT curriculum as well as increased program assessment and new faculty.

For more information on ABET and the ABET-TECHNOLOGY accreditation standards, please refer to www.abet.org. Reference Technology accreditation.

SELECTIVES¹

ENGL COMP (Sem 2): ENGL 106/108.

OLS/MGMT Sel (Sem 8): MGMT 200, OLS 252 .

TECH COM Sel (Sem 8): COM 315, 320, 324, 412, 415,
ENG 420, 421

HUM Elec (Sem 8): Humanities free elective

ABET SPECIFIC COURSEWORK

Changes to the previous AOT curriculum include elimination of the 9 credit hour AOT Selective area, a reduction in total credit from 128 credits to 124 credits for the baccalaureate degree, and the additional of new coursework. These include:

AT 385 Design Support Analysis

AT 408 Advanced Aircraft Manufacturing Processes

AT 496 Applied Research Proposal

AT 497 Applied Research Project

STAT 301T Elementary Statistical Methods

AIRFRAME & POWERPLANT CERTIFICATE

The FAA Airframe and Powerplant Certificate coursework is being retained within the new ABET curriculum and students will still be eligible to test for the A&P certificate.

AT 403 has been removed from the curriculum. It is being replaced by **Airframe & Powerplant Certificate Preparation** which is an online course that require completion to be eligible to complete the federal certificate testing.

CTI AIR TRAFFIC CONTROL OPTION

All AT students may add the CTI Air Traffic Control Option if desired. To be eligible to add the CTI Air Traffic Control endorsement to your AOT degree program you must complete your degree in Aeronautical Technology with the following specific courses included in the degree program (no substitutions). Students must obtain a grade of 'C' or better in the required courses to be eligible for CTI endorsement.

AT 100 Introduction to Aviation
AT 106 Basic Aircraft Science
AT 144 Fundamentals of Flight

AT 262/376 Powerplant Tech./Turbine Engine Tech.
or AT 187

AT 285 ATC Procedures and Weather
AT 481 Aviation Safety

Additional CTI specific required coursework includes:

AT 369 Air Traffic Control

Completion of the online **Air Traffic Control Preparation** course and associated examination.

This course is designed to prepare individuals for success in the Federal Aviation Administration (FAA) air traffic controller training program. Through the use of online lectures, programmed learning workbooks, presentations, and exams, this course will cover all the material required prior to employment by the FAA. This material includes air traffic control procedures, federal aviation regulations, aviation weather observation and reporting, principles of navigation, and the use and interpretation of aeronautical charts. Offered through Continuing Education and has a separate fee. Students have access to the material for three years upon enrollment. Students must obtain a minimum of 80% on each section of the examination.