

March 3, 2005

Prof. Scott Wills
Chair, Institute Undergraduate Curriculum Committee
ECE – 0250

The School of Aerospace Engineering requests Institute Undergraduate Curriculum Committee approval of the following items, all of which have been approved by the AE faculty.

1. Modification of the degree requirements for the Bachelor of Aerospace Engineering. There is no net change in the number of credit hours required for the degree.
 - a. **Modify** the Social Sciences requirement to read as follows:
Social Sciences, twelve hours: must include HIST 2111, HIST 2112, POL 1101, PUBP 3000, or INTA 1200; must include ECON 2100, ECON 2105, ECON 2106, *or a course satisfying the Global Economics requirement of the International Plan degree designation*; refer to pages 31-32 for a list of approved courses to satisfy the remaining hours.
2. Allow students to pursue the International Plan degree designation in conjunction with satisfaction of the BSAE degree requirements. The School will not impose any additional restrictions on pursuit of the degree designator.

Students can satisfy the course requirements for the degree designation within the existing credit hours for the degree through appropriate selection of electives. For example:

- a) Global economics, international relations, and area-focused courses – social sciences electives
- b) Culminating course – approved electives or incorporated into capstone design project
- c) Language courses – humanities electives (6 hours) and free electives (6 hours)

Two sample 8-semester schedules are attached. These are examples only; students will be allowed to complete any international experience option allowed under the Institute requirements.

Thank you for your consideration of this request.

Lakshmi N. Sankar
Associate Chair for Undergraduate Programs

ENDORSED:

Dean, College of Engineering

Provost

BSAE (International Option #1)

FIRST YEAR - FALL		HRS	FIRST YEAR - SPRING		HRS
MATH 1501 CALCULUS I		4	MATH 1502 CALCULUS II		4
ENGL 1101 ENGLISH COMPOSITION I		3	ENGL 1102 ENGLISH COMPOSITION II		3
CHEM 1310 GENERAL CHEMISTRY		4	PHYS 2211 INTRODUCTORY PHYSICS I		4
CS 1371 COMPUTING FOR ENGINEERS		3	Language II		3
Language I		3	AE 1350 INTRODUCTION TO AE		2
TOTAL SEMESTER HOURS =		17	TOTAL SEMESTER HOURS =		16
SECOND YEAR - FALL		HRS	SECOND YEAR - SPRING		HRS
MATH 2401 CALCULUS III		4	HIST 2111/2112 or POL 1101 or PUBP 3000 or INTA 1200		3
PHYS 2212 INTRODUCTORY PHYSICS II		4	AE 2220 DYNAMICS		3
COE 2001 Statics		2	Language IV		3
Language III		3	AE 3450: Thermo & 1-D flow		3
			Wellness		2
AE 2020: Low Speed Aero		3	COE 3001: Deformable Bodies		3
TOTAL SEMESTER HOURS =		16	TOTAL SEMESTER HOURS =		17
THIRD YEAR - FALL (Abroad)		HRS	THIRD YEAR - SPRING (Abroad)		HRS
Math 2403: Differential Equations		4	Science Elective		3
Free Electives		4	MSE 2001 PRINCIPLES & APPLICATIONS OF		3
			ECE 3741 INSTRUM & ELECTRONICS LAB		1
International economics/Business		3	Social Science (International history)		3
ECE 3710 CIRCUITS & ELECTRONICS		2	SOCIAL SCIENCE ELECTIVE: Intl' Relations		3
TOTAL SEMESTER HOURS =		13	TOTAL SEMESTER HOURS =		13
13					
FOURTH YEAR - FALL		HRS	FOURTH YEAR - SPRING		HRS
AE 3125 AEROSPACE STRUCTURAL ANALYSIS		4	AE 4220 AEROELASTICITY		3
AE 4350 DESIGN PROJECT I or 4356 SPACE SYSTEMS DESIGN PROJECT I		3	AE 4351 DESIGN PROJECT II or AE 4357 SPACE SYSTEMS DESIGN PROJECT II		3
AE 3051: Fluids Lab		2			
AE 3145 STRUCTURES LAB		1			
AE 4451 JET & ROCKET PROPULSION		3	AE 4525 CONTROL SYSTEMS DESIGN LAB		2
AE 3521 FLIGHT DYNAMICS		4	LCC 3401 TECHNICAL COMMUNICATION PRACTICES		2
TOTAL SEMESTER HOURS =		17	TOTAL SEMESTER HOURS =		10

Summer
AE 3310
CE 1770
AE 3515
AE 3021
13

Total Hours: 132

BSAE (International Option #2)

FIRST YEAR - FALL		HRS	FIRST YEAR - SPRING		HRS
MATH 1501 CALCULUS I		4	MATH 1502 CALCULUS II		4
ENGL 1101 ENGLISH COMPOSITION I		3	ENGL 1102 ENGLISH COMPOSITION II		3
CHEM 1310 GENERAL CHEMISTRY		4	PHYS 2211 INTRODUCTORY PHYSICS I		4
			Wellness		2
CS 1371 COMPUTING FOR ENGINEERS		3	Language II		3
Language I		3	AE 1350 INTRODUCTION TO AE		2
TOTAL SEMESTER HOURS =		17	TOTAL SEMESTER HOURS =		18
SECOND YEAR - FALL		HRS	SECOND YEAR - SPRING		HRS
MATH 2401 CALCULUS III		4	HIST 2111 or 2112 or POL 1101 or PUBP 3000 or INTA 1200		3
PHYS 2212 INTRODUCTORY PHYSICS II		4	AE 2220 DYNAMICS		3
COE 2001 Statics		2	Language IV		3
Language III		3	AE 3450 THERMODYNAMICS & COMPRESSIBLE FLOW		3
			ECE 3710		2
AE 2020: Low Speed Aero		3	Math 2403		4
TOTAL SEMESTER HOURS =		16	TOTAL SEMESTER HOURS =		18
THIRD YEAR - FALL (at Ga Tech)		HRS	THIRD YEAR - SPRING (Abroad)		HRS
COE 3001 Deformable Bodies		3	Science Elective		3
EE 3741: Lab		1	Free Electives		4
AE 3310		3	Global Economy or related course		3
AE 3515		4			
CE/AE/ME 1770 Graphics		3	International Affairs		3
AE3021 HIGH SPEED AERODYNAMICS		3	International History/Public Policy		3
TOTAL SEMESTER HOURS =		17	TOTAL SEMESTER HOURS =		16
FOURTH YEAR - FALL		HRS	FOURTH YEAR - SPRING		HRS
			AE 4220 AEROELASTICITY		3
AE 4350 DESIGN PROJECT I or 4356 SPACE SYSTEMS DESIGN PROJECT I		3	AE 4351 DESIGN PROJECT II or AE 4357 SPACE SYSTEMS DESIGN PROJECT II		3
AE 3125 Aerospace Structural Analysis		4	AE 3051: Fluids Lab		2
AE 3145: Structures Lab		1	MSE 2001		3
AE 4451 JET & ROCKET PROPULSION		3	AE 4525 CONTROL SYSTEMS DESIGN LAB		2
AE 3521: Feedback Control		4	LCC 3401 Technical Writing		2
TOTAL SEMESTER HOURS =		15	TOTAL SEMESTER HOURS =		15

Internship Abroad

Total Hours: 132