

October 24, 2003

Memorandum

To: Clayton Baum, Curriculum Committee Chair
Through: E. Kalajian, Associate Dean, College of Engineering
From: John Windsor, Environmental Science Program Chair
Subject: Revisions to Meteorology Program, 7223

Approved & Aided 10/24/03

The requests for changes to the Meteorology curriculum are to:

1. Delete CSE 1301 Introduction to Computer Applications as a choice for a computer science elective. A computer programming language is necessary for some upper level courses in Meteorology.
2. Add ASC 1000 University Experience as a required course. It's been our experience that freshmen completing University Experience have better success on campus.
3. Add ENS 4911 Environmental Field Projects to junior year, summer. The additional one credit of research during the summer will make this curriculum parallel with the other three summer research programs in DMES, Environmental Science, Oceanography and Ocean Engineering.
4. Delete AVS 3201 Aviation Meteorology. The course is not required for certification as a professional meteorologist by the American Meteorological Society and can still be taken as an elective.
5. Reduction of credits required for graduation to 133

Attached is a copy of the 7223 flow chart with added or deleted courses highlighted.

The addition or removal of any graduation requirement in a major requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

College/School ENGINEERING Department DMES

Degree level BS Program title ENVIRON. SCIENCE METEOROLOG

To be initiated with catalog year 20 05/20 06

Brief description of requested changes (attach a more detailed description and any supporting documentation)

- DELETE CSE 1301 AS COMPUTER SCIENCE ELECTIVE
- ADD ASC 1000 UNIVERSITY EXPERIENCE
- ADD ENS 4911 ENVIRONMENTAL FIELD PROJECTS
- DELETE AVS 3701 AVIATION METEOROLOGY
- REDUCE CREDITS FOR GRADUATION FROM 134 TO 133
- PLEASE SEE ATTACHED

APPROVALS

On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar.

<u>[Signature]</u>	<u>10/24/03</u>	_____	_____
Originator	Date	Chair, Graduate Council	Date
<u>[Signature]</u>	<u>10/24/03</u>	_____	_____
Department Head/Program Chair	Date	OR	
<u>[Signature]</u>	<u>10-30-03</u>	_____	_____
Dean or Associate Dean	Date	Chair, Undergraduate Curriculum Committee	Date

Registrar's Use Only Operator Init _____ Date _____

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ENVIRONMENTAL SCIENCES - 7223
Meteorology Flow Chart
2003-2004

EACH STUDENT IS RESPONSIBLE FOR KEEPING THEIR FLOW CHART CURRENT AND ACCURATE. THIS CHART MUST BE REVIEWED BEFORE EACH REGISTRATION OR CHANGE IN REGISTRATION.

Student Name: _____

Student No.: _____

Advisor: _____

METEOROLOGY OPTION (7223)			CREDITS	TAKEN	GRADE
<u>FRESHMAN – FALL</u>					
CHM	1101	General Chemistry 1	4	_____	_____
COM	1101	Composition and Rhetoric	3	_____	_____
CSE	1301	Introduction to Computer Applications	3	_____	DELETE
Or					
CSE	15xx	Restricted Elective (Computer Science) (3) (MOVE)			
ENS	1001	The Whole Earth Course	3	_____	_____
MTH	1001	Calculus 1	4	_____	_____
ASC	1000	UNIVERSITY EXPERIENCE	1	_____	ADD
TOTAL			18		

FRESHMAN SPRING

AVS	1201	Aviation Meteorology	3	_____	_____
CHM	1102	General Chemistry 2	4	_____	_____
MTH	1002	Calculus 2	4	_____	_____
PHY	1001	Physics 1	4	_____	_____
PHY	2091	Physics Laboratory 1	1	_____	_____
TOTAL			16		

SOPHOMORE – FALL

COM	1102	Writing about Literature	3	_____	_____
MTH	2001	Calculus 3	4	_____	_____
PHY	2002	Physics 2	4	_____	_____
PHY	2092	Physics Laboratory 2	1	_____	_____
		Social Science Elective	3	_____	_____
TOTAL			15		

SOPHOMORE - SPRING

COM	2223	Scientific & Technical Communication	3	_____	_____
HUM	2051	Civilization 1	3	_____	_____
MTH	2201	Differential Equations/linear Algebra	4	_____	_____
OCN	2407	Meteorology	3	_____	_____
PHY	2003	Modern Physics	3	_____	_____
TOTAL			16		

JUNIOR – FALL

ENS	3101	Atmospheric Environments	3	_____	_____
MET	3401	Synoptic Meteorology 1	3	_____	_____
MTH	2401	Probability and Statistics	3	_____	_____
OCN	3430	Fundamentals of Geophysical Fluids	3	_____	_____
OCN	3433	Geophysical Fluids Laboratory	1	_____	_____
PHY	3060	Thermodynamics, Kinetic Theory & Statistical Mechanics	4	_____	_____
TOTAL			17		

ENVIRONMENTAL SCIENCES - 7223
Meteorology Flow Chart
2003-2004

JUNIOR - SPRING

ENS	3105	Atmospheric Pollution Laboratory	1	_____	_____
ENS	3911	Environmental Field Projects Proposal	1	_____	_____
HUM	2052	Civilization 2	3	_____	_____
MET	3402	Synoptic Meteorology 2	3	_____	_____
MTH	3201	Boundary Value Problems	3	_____	_____
SPS	4030	Physics of the Atmosphere	3	_____	_____
		Technical Elective	<u>3</u>	_____	_____
TOTAL			17		

SUMMER

ENS	4911	Environmental Field Projects 1	1		ADD
ENS	4912	Environmental Field Projects 2	2	_____	_____
ENS	4913	Environmental Field Projects 3	<u>3</u>	_____	_____
TOTAL			6		

SENIOR - FALL

ENS	4700	Environmental Hydrology	3	_____	_____
MET	4233	Remote Sensing for Meteorology	3	_____	_____
MET	4305	Atmospheric Dynamics 1	3	_____	_____
OCN	3401	Physical Oceanography	3	_____	_____
OCN	3411	Physical Oceanography Laboratory	1	_____	_____
		Humanities Elective	<u>3</u>	_____	_____
TOTAL			16		

SENIOR - SPRING

AVS	3201	Aviation Meteorology 2	3		DELETE
MET	4306	Atmospheric Dynamics 2	3	_____	_____
MET	4310	Climatology	3	_____	_____
		Technical Elective	3	_____	_____
		Free Elective	<u>3</u>	_____	_____
TOTAL			12		

TOTAL CREDITS REQUIRED **133**

This Form must be accurate, neat and signed before petitioning to graduate.

Student **Date**

Advisor/Program Chair/Department Head **Date**