Resolution #13 1991-92

TO:

President John E. Van de Wetering

FROM:

The Faculty Senate

Meeting on | 5/4-5/11/92

(Date)

RE:

I. Formal Resolution (Act of Determination) I. Formal Resolution (Act of Determined II. Recommendation (Urging the fitness of)
III. Other (Notice, Request, Report, etc.)

For your information

SUBJECT: Change in Meteorology Major

The Faculty Senate

President John E. Van de Wetering

RE:

Decision and Action Taken on Formal Resolution

Accepted. Effective Date

Deferred for discussion with the Faculty Senate

Unacceptable for the reasons contained in the attached explanation

II, III.

a. Received and acknowledged

b. Comment:

DISTRIBUTION:

Distribution Date

(President of



State University of New York College at Brockport ort, New York 14420

March 27, 1992

Department of The Earth Sciences (716) 395-2636

To: J. Emory Morris, Chairperson
Undergraduate Curriculum Committee

rom: Robert S. Weinbeck
Meteorology Advisor

From:

John E. Hubbard, Chairperson Department of the Earth Sciences

Re: Revision of Meteorology Major

We are requesting that the Faculty Senate, through the UGCC, approve the following revision to the Meteorology Major:

1) ESC 420 Atmospheric Sensing Methods (3 cr.) be required.

Rationale: National Weather Service guidelines for federal employment (the de facto specification for the meteorology major) will be updated in October, 1992 to require that all prospective employees have a course in remote sensing/instrumentation. This is a new title for the course "Meteorological Instruments" (with revision of content) which has existed since 1979 and been taken on an elective basis by most of the majors.

2) ESC 491 Seminar on Meteorological Problems (2 cr.)

Rationale: The Seminar course be increased from 1 to 2 credit hours to include a major senior thesis paper. Past practice has required only written map discussions and case studies. The cos 100 ele enhanced paper will be a capstone experience, usually also presented for Scholar's Day or at appropriate professional meetings.

Meteorological electives be reduced from 7 credits to 6.

Rationale: The increase of the credit for Seminar and one more required course, partially offset by the minimal elective reduction, will make total credit hours in the major 36.

4) CHM 205 College Chemistry I be required.

Rationale: The new NWS guidelines require chemistry or physical hydrology. The hydrology option has always been available for students, the chemistry has been strongly recommended. Requiring chemistry will strengthen the major, provide better background for the air pollution course (an elective) and guarantee exposure to all of the physical sciences.



5) MTH 455 Differential Equations be the third math course required.

Rationale: NWS guidelines mandate this choice. We had offered the student the option of MTH 455 or MTH 203 Calculus III or PHS 301 Mathematical Methods of Physics. While all contain important material and will remain strongly recommended, especially for those students choosing to go on to graduate study, the choice of one clearly favors MTH 455.

The proposed program therefore would be as listed below:

Current Program	Proposed Program
ESC 211 Weather 4	ESC 211 Weather 4
ESC 311 Synoptic Met. 4	ESC 311 Synoptic Met. 4
ESC 312 Weather Fostg. 4	ESC 312 Weather Fcstg. 4
ESC 411/412 Hydrol./Lab.\	ESC 411/412 Hydrol./Lab.\
or > 4	or > 4
ESC 413/414 Climate/Lab./	ESC 413/414 Climate/Lab./
ESC 415 Physical Met. 3	ESC 415 Physical Met. 3
ESC 416 Thermo. & BDL 3	ESC 416 Thermo. & BDL 3
ESC 417 Dynamic Met. 3	ESC 417 Dynamic Met. 3
ESC 491 Seminar 1	ESC 491 Seminar 2
sing/instrumentation. This is	ESC 420 Atm. Sens. Mtds. 3
Met. electives " "atmount 7	Met. electives 6
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Co-requisite courses

MTH 201, 202 Calc. MTH 203 or 455 or	I, II	6 3 1,12107111	MTH 201, 202 Calc. I, II 6 MTH 455 Diff. Eqns. 3
PHS 301 PHS 201, 202 Phys.	1, 11	sed on s	PHS 201, 202 Phys. I, II 8 CHM 205 Chem. I 4
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() CHE 205 College Chamistry in reculred.

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