

The Office of Counseling and Career Services

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DUTCHESS COMMUNITY COLLEGE AND ATMOSPHERIC SCIENCE/METEOROLOGY

Meteorology, the science of the atmosphere, is a steadily developing field. The concerns of weather prediction, climatic change and atmospheric pollution are only some of the challenges offered to you when you join this exciting field of science. At the government and private levels, a growing awareness of environmental problems and concerns is creating ever-increasing opportunities for graduates with atmospheric expertise. Meteorologists are typically employed by the National Weather Service, the National Aeronautics and Space Administration, by the U.S. Air Force and by colleges and universities. Private industry employs meteorologists in environmental science and in television and radio forecasting. Employment options and career advancement are significantly increased with an advanced degree (Masters or Doctoral degree).

ACADEMIC PREPARATION

Students planning to study atmospheric science should have a solid academic preparation in mathematics, physics, and chemistry. Meteorology at the State University College at Oneonta (SUNY) is part of the Earth Sciences Department and requires the following courses necessary "to build a strong foundation for atmospheric science."

SCIENCE AND RELATED COURSES

DCC COURSES (L.A.X.)

CHEM 121

MAT 221

CHEM 122

MAT 222

PHY 151

MAT 223

PHY 152

MAT 224

PHS 111

CIS 114

SUNY ONEONTA EQUIVALENT COURSES

General Chemistry I

Calculus I

General Chemistry II

Calculus II

General Physics I

Calculus III

General Physics II

Differential Equations

Weather and Climate

"C" Programming

- ❖ Students need to be aware that academic requirements for Atmospheric Science programs may differ somewhat at various four-year colleges and universities.

A PARTIAL LISTING OF SCHOOLS WITH ATMOSPHERIC SCIENCE/METEOROLOGY PROGRAMS:

SUNY ALBANY, SUNY ONEONTA, CORNELL UNIVERSITY, LYNDON STATE, PENNSYLVANIA STATE, U-MASS/LOWELL, WESTERN CONNECTICUT

DUTCHESS COMMUNITY COLLEGE

AND

ATMOSPHERIC SCIENCE

(SUNY ALBANY)

Liberal Arts and Sciences (L.A.X.) is the appropriate program for DCC students to begin their academic preparation for a major in Atmospheric Science at SUNY Albany.

The following is a suggested plan of study for DCC students who will earn an*Associate in Science (A.S.) degree and intend to apply for transfer to SUNY Albany as Atmospheric Science majors:

SCIENCE AND RELATED COURSES

DCC (L.A.X.) COURSES

CHEM 121
MAT 221
PHY 151
MAT 222
PHY 152
MAT 223
PHY 251
MAT 224
CPS 141
PHS 111

SUNY ALBANY EQUIVALENT

ACHEM 120N, 122A
AMAT 112
APHY 140, 145
AMAT 113
APHY 150, 155
MAT 214
PHY 204/145
AMAT 311
ACSI 201N
AATM 100

ADDITIONAL SUGGESTED COURSE SELECTIONS (L.A.X.)

ENG 101 & 102, HIS 104 OR HIS 121

BHS 103, SCI 100, WFE 101

Humanities: The 120; Social Science: ECO 201

* General Education Course + any remaining Elective/Free elective

ADDITIONAL INFORMATION:

*General Education course/ Elective/ Free Elective: Students should select courses that satisfy SUNY General Education categories not previously met.

- 1) DCC students are strongly advised to complete MAT 221, MAT 222, MAT 223 and MAT 224 prior to applying for any fall semester so that they can be assured of junior status and a proper sequence of upper-level courses.(Students should be aware that the Atmospheric Science program at SUNY Albany may take an additional three years to complete).
- 2) G.P.A. requirement for Atmospheric Science is 2.6 or above.

Students should be aware that prerequisite courses as well as admissions requirements are subject to change. Accordingly Students should contact schools of interest directly for current information.