

Meteorology Concentration is Available

UT Martin is now offering a new meteorology concentration that is the only program of its kind in the state.

Part of the Department of Agriculture, Geosciences, and Natural Resources, the meteorology program is designed to train students for a career in the atmospheric sciences and to supplement their training in geosciences.

“Successful students will be well positioned to enter graduate school and to complete their professional meteorology training or to follow careers in the geosciences in which foundational knowledge in weather and climate is required,” said Dr. Mark Simpson, associate professor of geography.

Potential career fields include working as forecasters, broadcast meteorologists, research meteorologists, climatologists and meteorologists in the armed forces. Others are as consultants in forensics, agriculture, energy, manufacturing, commodities markets, environmental planning, emergency preparedness, transportation and teaching. Potential employers include private industry and consulting services, academics, and federal government agencies.

The proposed concentration complements the existing concentrations in the geosciences as well as the existing programs in the new academic home in the Department of Agriculture, Geosciences, and Natural Resources. The meteorology concentration will give students a solid foundation by which they can pursue the discipline further.

“It is also worth noting that many universities are starting the Bachelor of Science degrees in the meteorology emphasizing forecasting. The market is being flooded with “forecasters” and “storm chasers”, but the training offered at UT Martin will allow students in flexibility in career choices, thus enhancing marketability,” said Simpson. “The program is flexible enough to allow students to be trained in other avenues of geosciences while being engaged in a rigorous study of the fundamentals of meteorology. For those students who wish to pursue forecasting as a career, the concentration will be thorough enough to prepare them for the top graduate programs.”

For more information about the meteorology program, contact the Department of Agriculture, Geosciences, and Natural Resources at ext. 7260.

**It is recommended that the Meteorology Concentration complete a minor in either Math, Statistics, or Physics*

Fine Arts (3 hours) *Select One*

ART 110	Understanding Visual Arts	___/3
ARTH 210	The History of Art	___/3
ARTH 211	The History of Art	___/3
DANC 110	Understanding Dance	___/3
MUS 111	Masterpieces of Music	___/3
MUS 112	Music in Our Time	___/3
MUS 114	Historical Survey of Jazz	___/3
MUS 115	Music for the Masses	___/3
THEA 110	Understanding Theatre	___/3
THEA 111	Understanding Theatre	___/3

Lab Science (16 hours)

**Complete two sequences outside of the major*

GEOL 110	Introduction to Physical Geology	___/4
& 120	Environmental Geology	___/4
ASTR 201	Astronomy	___/4
& 202	Astronomy	___/4
BIOL 110	Introductory Cell Biology & Genetics	___/4
& 120	Introductory Plant & Animal Biology	___/4
BIOL 130	Foundations of Biology: Ecology & Diversity	___/4
& 140	Foundations of Biology: Cell & Molecular	___/4
CHEM 121	General Chemistry	___/4
& 122	General Chemistry	___/4
PHYS 211	College Physics w/lab	___/4
& 212	College Physics w/lab	___/4
PHYS 220	University Physics	___/4
& 221	University Physics	___/4

Communication (9 hours)

**Students who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence.*

ENGL 111	English Composition (Must earn a C or better)	___/3
ENGL 112	English Composition (Must earn a C or better)	___/3
COMM 230	Public Speaking	___/3

Humanities (9 hours)

**Complete one sequence and one course from a different discipline.*

If 3 courses are taken in 3 different areas, this area could show incorrectly. Please check carefully!

ENGL 250	British Literature	___/3
& 251	British Literature	___/3
ENGL 260	American Literature	___/3
& 261	American Literature	___/3
ENGL 270	World Literature	___/3
& 271	World Literature	___/3
HIST 121	World Civilization I	___/3
& 122	World Civilization II	___/3
HIST 201	History of the U.S. I	___/3
& 202	History of the U.S. II	___/3
PHIL 110	Adventure of Ideas: Historical	___/3
& 120	Adventure of Ideas: Contemporary	___/3
HONR 111		___/3

General Foreign Language (4 hours)

**Complete a foreign language at the 122 level or above.*

_____	___/4
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Mathematics (6 hours)

Complete MATH 185 or any two of the following:

MATH 185	Precalculus	___/5
or		
MATH 110	Essentials of Algebra	___/4
or 140	College Algebra & Elementary Functions	___/3
MATH 160	Calculus for Business & Life Sciences	___/3
MATH 170	Trigonometry	___/3
MATH 210	Elementary Statistics & Probability	___/3
MATH 251	Calculus I	___/3
MATH 252	Calculus II	___/3

Social Sciences (6 hours)

SOCIAL (Choose 2 courses from disciplines outside the major)

ECON 201	Principles of Macroeconomics	___/3
ECON 202	Principles of Microeconomics	___/3
HONR 112		___/1
POSC 210	American Government & Politics	___/3
POSC 220	American Political Institutions & Policy	___/3
POSC 230	Introduction to World Politics	___/3
PSYC 101	Introduction to Psychology	___/3
SOC 201	General Sociology	___/3

Prerequisites to Concentration (6 hours)

GEOG 151	Intro Regional Geography: NA, Europe, Russia	___/3
GEOG 201	Intro Physical Geography	___/3

Geoscience- Meteorology Concentration (38 hours)

**No more than 9 UD transfer hours may be used toward a UT Martin degree.*

GEOG 210	Methods in Geoscience (Min C grade)	___/2
GEOG 305	Principles of Meteorology (Min C grade)	___/3
GEOG 310	Principles of Geographic Information (Min C)	___/3
or 364	Intro to Remote Sensing (Min C grade)	___/3
GEOG 320	Boundary Layer Meteorology (Min C grade)	___/3
GEOG 340	Synoptic Analysis & Forecasting (Min C grade)	___/3
GEOG 380	Geography of North America (Min C grade)	___/3
GEOG 471	Cartography (Min C grade)	___/3
GEOG 472	Climatology (Min C grade)	___/3

**Select Two Courses (6-8 hours)*

GEOG 420	Applied Meteorology & Climatology	___/3
GEOG 430	Statistical Climatology	___/3
GEOG 440	Atmospheric Thermodynamics	___/4
GEOG 460	Atmospheric Dynamics	___/4

UD Electives (9 hours in GEOG department)

_____	___/1
_____	___/1
_____	___/1

Required Minor (12-15 hours)

_____	___/1
_____	___/1
_____	___/1
_____	___/1
_____	___/1

Meteorology Major Electives (11 hours)

**Choose enough electives to total 120 degree hours & 42 UD hours*

_____	___/1
_____	___/1
_____	___/1

**B.S.
Geosciences - Meteorology
2017-2018**

Freshman Fall	
General Studies 101	2
ENGL 111	3
MATH 140	3
BIOL 130	4
Fine Arts Elective	3
Semester Total	15

Freshman Spring	
ENGL 112	3
BIOL 140	4
MATH 210	3
GEOG 151	3
Social Science Elective	3
Semester Total	16

Sophomore Fall	
Humanities Elective	3
COMM 230	3
GEOG 201	3
CHEM 121	4
GEOG 210	2
Semester Total	15

Sophomore Spring	
Social Science Elective	3
CHEM 122	4
Elective	3
Humanities Elective	3
Elective	2
Semester Total	15

Junior Fall	
Foreign Language	4
GEOG 305	3
GEOG 310 or 364	3
UD GEOG	3
Elective	3
Semester Total	16

Junior Spring	
GEOG 320	3
GEOG 340	3
GEOG 380	3
UD GEOG	3
Elective	3
Semester Total	15

Senior Fall	
GEOG CHOICE	3-4
GEOG 471	3
GEOG 472	3
UD GOEG	3
Elective	3
Semester Total	15-16

Senior Spring	
Humanities Elective	3
GEOG CHOICE	3-4
Required Minor	12
Semester Total	18-19