

University of the Incarnate Word®

Bachelor of Science in Broadcast Meteorology

School of Mathematics, Science and Engineering

PROGRAM OVERVIEW

The Bachelor of Science (B.S.) in Broadcast Meteorology in the School of Mathematics, Science and Engineering at the University of the Incarnate Word readies future weather science professionals for successful and important careers that serve to inform and educate the public, as well as for advanced study in graduate programs. UIW offers the only B.S. Meteorology and Broadcast Meteorology program in San Antonio and throughout South Texas.

The B.S. in Broadcast Meteorology is a 129-hour program that integrates meteorological studies in forecasting, climatology, and satellite, radar, and synoptic meteorology, with higher mathematics, video production and advanced communications. Students can expect an exciting and rigorous program that also offers hands-on practical learning which prepares them for work in the field and in front (or behind) the camera. Students in this program who complete Meteorology courses taken in these majors are partially fulfilling the academic requirements to earn the AMS or NWA Seal of Approval.

ADMISSION REQUIREMENTS

The requirements for admission to the B.S. in Broadcast Meteorology program are the same as the requirements for admission to the University of the Incarnate Word.

CONTACT

UIW Admissions
(210) 829-6005
admission@uiwtx.edu

This publication is available in alternate format by request. To request an alternate format, please contact the UIW Office of Admissions at (210) 829-6005. 6/2021 50

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IN THE WORLD**

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Broadcast Meteorology

B.S. in Broadcast Meteorology

FRESHMAN YEAR

Fall

ENGL 1311: Composition I (3 hours)
 CHEM 1301: Chemical Principles I (3 hours)
 METR 1325: Natural Hazards (3 hours)
 MATH 1311: Precalculus* (3 hours)
 Modern Language I (3 hours)

Total Hours: 15

*May not be required if student comps out.

Spring

ENGL 1312: Composition II (3 hours)
 CHEM 1302: Chemical Principles II (3 hours)
 CHEM 1203L: General Chemistry Lab (2 hours)
 Fine Arts (3 hours)
 Modern Language II (3 hours)
 MATH 2311: Calculus I (3 hours)

Total Hours: 17

SOPHOMORE YEAR

Fall

METR 1360: Climatology (3 hours)
 METR 1430: Meteorology (4 hours)
 PHYS 2305: Physics I (3 hours)
 PHYS 2105: Physics I Lab (1 hour)
 ENGL 2310: World Literature Studies (3 hours)
 MATH 2313: Calculus II (3 hours)

Total Hours: 17

*Choose 1: CIS 2330: Programming I, CIS 3360: Computer Science; ENGR 2340: Computer Programming for Mathematics, Sciences and Engineering, or other approved studies.

Spring

MATH 2314: Differential Equations (3 hours)
 PHYS 2306: Physics II (3 hours)
 PHYS 2106: Physics II Lab (1 hour)
 Computer Programming* (3 hours)
 SPCH 1311: Public Speaking (3 hours)
 DWHP 1200: Dimension of Wellness (2 hours)
 PEHP Physical Education Activity (1 hour)

Total Hours: 16

JUNIOR YEAR

Fall

METR 3360: Satellite Meteorology (3 hours)
 METR 3310: Radar Meteorology (3 hours)
 RELS 1310: Introduction to Theology* (3 hours)
 PHIL 1381: Introduction to Philosophy (3 hours)
 METR Advanced Elective** (3 hours)
 METR 3340: Hydrology (3 hours)

Total Hours: 18

*or other approved selections.

**Choose 1: METR 3355: Geographic Information Systems (GIS) in Meteorology, METR 4315: Air Pollution Meteorology, METR 4325: Climate Modeling, METR 3345: Statistical Climatology, METR 3365: Atmospheric Physics, METR 3376: Atmospheric Dynamics, METR 4330: Micrometeorology or METR 4340: Precipitation Physics and Weather Modification.

Spring

METR 3320: Forecasting I (3 hours)
 HIST 1311: World History* (3 hours)
 Advanced PHIL or RELS* (3 hours)
 GEOL 1420: Oceanography (4 hours)
 COMM 3381: Digital Film Production (3 hours)

Total Hours: 16

SENIOR YEAR

Fall

METR 3325: Thermodynamic Meteorology (3 hours)
 METR 3330: Forecasting II (3 hours)
 METR 3356: Synoptic Meteorology (3 hours)
 METR 4310: Weathercasting I (3 hours)
 METR 3390: Instrumentation (3 hours)
 METR 3190: Meteorological Instrumentation Lab (1 hour)

Total Hours: 16

*Choose from approved list of courses.

**Select any two of the following upper division courses: COMM 3353, 3380, 3390, and 3395.

Spring

METR 4320: Weathercasting II (3 hours)
 METR 4210: Capstone Broadcast Meteorology (2 hours)
 METR 3335: Severe Weather (3 hours)
 COMM Upper Division Course (6 hours)
 Social Science* (3 hours)

Total Hours: 17

132 hours needed to complete the B.S. in Broadcast Meteorology.