



The UNIVERSITY *of* OKLAHOMA

School of Meteorology

Undergraduate Handbook
2026–2027

Prepared by the Undergraduate Studies Committee

School of Meteorology Mission Statement

We provide a world-class academic experience that promotes collaborative, innovative, and inclusive education and research opportunities in the atmospheric sciences with a positive impact on Oklahoma, the nation, and the world.

School of Meteorology Vision Statement

We seek to develop the School into a globally-engaged, student-centered atmospheric science program to advance the Nation's Weather, Water, and Climate enterprise, by leveraging our strengths in research, education, and community engagement.

School of Meteorology Core Values

We value ***Breadth*** in the backgrounds of the members of our community and in our approach to the pursuit of collaborative activities, as an essential component in defining the success of our mission.

We pursue ***Excellence*** in everything we do and define it as the unceasing dedication to the highest standards of our performance in the context of our abilities and available resources.

We employ ***Creativity*** in all our activities, with the ultimate goal of transforming our imagination into measurable, positive outcomes for all members of our community and our stakeholders alike.

We are ***Transformative*** in our efforts to make the School a place of belonging for people from all backgrounds, to improve the educational, scientific, and socioeconomic outcomes, and thereby change the lives of all members of our community.

Our approach to all activities is ***Student-Centered*** – we embrace and celebrate our opportunity to prepare the students in our program to become the next generation of leaders in atmospheric science.

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1. Degrees and Curriculum

The University of Oklahoma (OU) [School of Meteorology](#) (SoM) is one of three academic units within the [College of Atmospheric and Geographic Sciences](#) (CAGS), the others being the [Department of Geography and Environmental Sustainability](#) (DGES) and the [School of Aviation](#) (SoA). In all CAGS undergraduate programs, students complete a rigorous degree designed to enhance their critical learning skills to prepare them to enter the workforce as a strong competitor or to move onto graduate school at a top institution.

1.1. Bachelor of Science, Meteorology

SoM offers a [Bachelor of Science in Meteorology](#) (Meteorology, B.S.) that can be earned in four years (eight semesters). Upon completing the program, students will:

- demonstrate a thorough understanding of weather and climate, and proficiency in analysis of meteorological and climate datasets;
- conduct collaborative research and synthesize research findings to produce a well-organized, original analysis on a topic in meteorology;
- demonstrate computational problem-solving skills using modern tools (e.g., Python) to write programs to analyze weather and climate data; and
- apply communication skills and professional values that will help them engage constructively with society.

1.1.1. General Requirements

The Meteorology, B.S. degree has the following general requirements that fulfill OU's requirements for graduation.

- Minimum 120 credit hours must be earned toward graduation
- Minimum 40 General Education credit hours distributed across five core areas, with at least 3 credit hours of upper-division (courses numbered 3000+) General Education coursework completed outside the major
- Minimum 52 upper-division credit hours, with at least one course (minimum 3 credit hours) outside of the student's major
- Minimum 60 credit hours must be earned at senior (4-year) institutions
- At least 36 of the last 48 credit hours must be completed in residence at OU
- Minimum two semesters in residence in CAGS
- Minimum 2.25 GPA both overall and for major courses (for OU and combined with grades from other institutions)

1.1.2. Degree Requirements

All degree requirements, including an example semester-by-semester plan for completing the degree, can be found in the [Meteorology, B.S. checksheet](#). Here we expand on the checksheet and provide further details on required courses, key milestones for progress in the degree, and course scheduling.

The Meteorology, B.S. degree requires 15 core courses (48 credit hours) described in Table 1 below. Also included are the semester(s) each course is offered. ***Note that most METR courses are offered only once each academic year.*** Students should consult the course schedule and check prerequisites when making enrollment plans.

Table 1: Core courses required for the Meteorology major

Course	Title	Hours	Semester Offered
METR 1003	Introduction to the Atmospheric Sciences	3	Fall, Spring, Summer
METR 2004	Atmospheric Circulations	4	Fall, Spring
METR 2213	Physical Meteorology I: Thermodynamics	3	Spring
METR 2613	Atmospheric In-Situ & Surface-Based Measurements	3	Spring
METR 3113	Atmospheric Dynamics I: Introduction to Atmospheric Kinematics/Dynamics	3	Fall
METR 3123	Atmospheric Dynamics II: Theory of Atmospheric Flows	3	Spring
METR 3223	Physical Meteorology II: Cloud Physics, Atmospheric Electricity/Optics	3	Spring
METR 3334	Principles of Research & Communication in Meteorology	4	Spring
METR 3513	Atmospheric Chemistry in Weather and Climate	3	Fall
METR 4133	Atmospheric Dynamics III: Mid-Latitude Synoptic-Scale Dynamics	3	Fall
METR 4233	Physical Meteorology III: Radiation and Remote Sensing	3	Fall
METR 4424	Synoptic Meteorology Laboratory	4	Fall
METR 4433	Mesoscale Meteorology	3	Spring
METR 4523	Climate and the General Circulation	3	Spring
METR 4913	Senior Seminar (Capstone)	3	Fall

An additional 3 credit hour upper-level elective in meteorology, hydrology, or climatology must be chosen from the [Meteorology Upper-Division Major Electives Course List](#). Students should consult with their academic advisor for guidance on the most current list of electives as well as which electives may be most beneficial for their career goals. The list below includes some regularly offered electives and the semester they usually are taught. Note that this list is not comprehensive of all electives offered, and note that electives often are taught every-other year.

- *Fall Semester:* METR 3523: Managing for a Changing Climate, METR 4533: Earth's Past Climate, METR 4663: Radar Engineering, METR 4713: Private Sector Meteorology
- *Spring Semester:* METR 4403: Applications of Meteorological Theory to Severe Thunderstorm Forecasting, METR 4443: Introduction to Tropical Meteorology, METR 4553: Climate and Renewable Energy, METR 4743: Applications of Weather Forecasting

Free electives can be used to meet other requirements, including for minors, but they must include at least 9 credit hours of upper-division coursework to ensure the required 52 credit hours of upper-division coursework.

Furthermore, nine courses (33-36* credit hours) are required to support major courses, as detailed in Tables 2 and 3 below.

Table 2: Required math and physics courses for Meteorology major support

Course	Title	Hours	Semester Offered
MATH 1914*	Differential and Integral Calculus I	4	Fall, Spring, Summer
MATH 2924*	Differential and Integral Calculus II	4	Fall, Spring, Summer
MATH 2934*	Differential and Integral Calculus III	4	Fall, Spring, Summer
MATH 3413	Physical Mathematics I	3	Fall, Spring, Summer
CHEM 1315	General Chemistry	5	Fall, Spring, Summer
PHYS 1311	General Physics Lab 1	1	Fall, Spring, Summer
PHYS 2514	General Physics for Science and Engineering Majors	4	Fall, Spring, Summer
PHYS 2524	General Physics for Science and Engineering Majors	4	Fall, Spring, Summer
METR 4313 or MATH 4753	Statistical Meteorology or Applied Statistical Methods	3	Fall Fall, Spring, Summer

*See [Section 1.1.3](#) on calculus sequences

Table 3: One of these programming courses must be taken to fulfill the programming elective requirement for Meteorology major support

Course	Title	Hours	Semester Offered
METR 1313	Introduction to Programming for Meteorology	3	Fall, Spring
C S 1321^	Java for Programmers	1	Fall, Spring
C S 1323^	Introduction to Computer Programming for Programmers	3	Fall, Spring
C S 1324^	Introduction to Computer Programming for Non-Programmers	4	Fall, Spring

^ To enroll in one of these C S courses, students must take a [placement quiz](#). Students will be emailed in about a week after taking the quiz with their results and course permissions.

All majors must fulfill [OU's General Education requirement](#) of a minimum of 40 credit hours of [General Education \("Gen Ed"\) courses](#) in the following five core areas.

- Symbolic and Oral Communication
 - English Composition: 2 courses, 6 credit hours
 - Language**: 2 courses, 6–10 credit hours
 - MATH 1914*: Differential and Integral Calculus I, 4 credit hours
- Natural Science
 - CHEM 1315: General Chemistry (with lab), 5 credit hours

- PHYS 2514: General Physics for Engineering and Science Majors (without lab), 4 credit hours
- Social Science
 - P SC 1113: American Federal Government, 3 credit hours
 - Other (choose from [Gen Ed course list](#)), 1 course, 3 credit hours
- Arts & Humanities
 - Artistic Forms (choose from [Gen Ed course list](#)): 1 course, 3 credit hours
 - HIST 1483: United States to 1865 or HIST 1493: United States 1865 to Present, 1 course, 3 credit hours
 - Other Western Culture (choose from [Gen Ed course list](#), may not be HIST 1483 or HIST 1493): 1 course, 3 credit hours
 - World Culture (choose from [Gen Ed course list](#)): 1 course, 3 credit hours
- First Year Experience
 - The CAGS-offered course AGSC 1513: Where the Land Meets the Sky, 3 credit hours

*See [Section 1.1.3](#) on calculus sequences

**The Language requirement can be satisfied by successfully completing two semesters of the same language at the college level equivalent to two semesters at OU. It also may be satisfied by successfully completing two years of the same language in high school or by demonstrating an equivalent level of competence on an assessment test.

Additionally, to fulfill the upper-division requirement, at least one of the courses (minimum of 3 credit hours) used to satisfy the General Education requirements must be at the upper-division level and outside of the student's major.

1.1.3. Math Courses

The above tables and lists reference the 3-course calculus sequence consisting of

1. MATH 1914: Differential and Integral Calculus I
2. MATH 2924: Differential and Integral Calculus II
3. MATH 2934: Differential and Integral Calculus III

Each of these courses is 4 credit hours, for a total of 12 credit hours of calculus.

This sequence can be replaced with the 4-course calculus sequence consisting of

1. MATH 1823: Calculus and Analytic Geometry I
2. MATH 2423: Calculus and Analytic Geometry II
3. MATH 2433: Calculus and Analytic Geometry III
4. MATH 2443: Calculus and Analytic Geometry IV

Each of these courses is 3 credit hours, for a total of 12 credit hours of calculus.

Both sequences cover all the necessary material, and years of data shows no significant difference in outcomes for Meteorology students related to which sequence they complete.

You must complete MATH 2934 or MATH 2443 no later than the Summer before you begin your junior year meteorology courses and MATH 3413 no later than the Fall of your junior year meteorology courses.

1.1.4. Grade Requirements in Courses

All courses that are direct prerequisites for METR courses must be completed with a grade of C or better: This often is referred to as the “C-Rule”. This includes the following courses:

- MATH 1823, 2423, 2433, 2443 or 1914, 2924, 2934
- MATH 3413
- PHYS 1311, 2514, 2524
- CHEM 1315
- METR 1313 or C S 1321, 1323, 1324

The C-Rule also applies to all core METR classes except for those that are not direct prerequisites for other courses, which currently includes METR 4433, 4523, and 4913. It also applies to the upper-level elective in meteorology, hydrology, or climatology.

1.1.5. Knowledge Expectations

All core METR courses in the curriculum have a set of knowledge expectations. These documents describe the principal concepts, technical skills, and fundamental understandings that all students are expected to possess upon completing specific courses. The knowledge expectations will be shared in each core class via Canvas.

1.1.6. Course Sequencing and Timing

To earn a Bachelor of Science in Meteorology, it is important that you are aware of the prerequisites for all courses. These can be found via the [Bachelor of Science in Meteorology page](#). As noted in the tables above, and except for 1000-level courses and METR 2004, currently all METR core courses are only offered once per academic year. As such, and due to the sequencing of courses that build upon each other, not obtaining the required C in courses ([Section 1.1.4](#)) can lead to the degree taking more than 4 years to complete.

The first Meteorology course in the curriculum is METR 1003 ([Section 1.1.2](#)). To enroll in this course, students must meet the minimum prerequisite of MATH 1523 or higher or be concurrently enrolled in either MATH 1823 or MATH 1914. ***Students are highly recommended to be concurrently enrolled in at least Calculus I—either MATH 1823 or MATH 1914—to stay on track in the major.***

Freshmen students can take METR 1313 in the Fall or Spring, if they meet the minimum prerequisite of MATH 1523 or equivalent or concurrent enrollment. Students instead may take C S 1321, 1323, or 1324 to meet the Programming Elective requirement.

1.1.6.1 Important Milestones

You must complete

- your programming elective (METR 1313 or C S 1321, 1323, 1324) and introductory meteorology course (METR 1003) no later than the Summer before you begin your sophomore year METR courses;
- PHYS 2524 no later than the Fall of your sophomore year METR courses;
- MATH 2934 or MATH 2443 no later than the Summer before you begin your junior year METR courses; and
- MATH 3413 no later than the Fall of your junior year METR courses.

1.1.7. Undergraduates Taking METR Graduate Courses

If appropriate permissions are received, qualified junior- and senior-level Meteorology majors can enroll in 5000- and 6000-level (i.e., graduate) METR courses. These courses will carry only undergraduate credit unless the student is approved to receive graduate credit (see [Applying for Graduate Credit](#)).

To qualify:

- The student must be in their junior- or senior-level Meteorology courses.
- The student must have a minimum overall and OU 3.0 GPA.
- The student must meet all the pre-requisites of the graduate course (aside from graduate standing).
- The student must receive an email from the graduate course instructor (with the SoM advisor included on the email) that gives them permission to enroll and states the student will be evaluated at the same level as the graduate students in the course.
 - For a 6000-level course, the student additionally must receive an email from the Dean of the Graduate College that gives them permission to enroll.
- The SoM academic advisor will verify that the above criteria are met and request that permission to enroll in the course be given by the Coordinator of Graduate Programs or Associate Director for Undergraduate Programs.

Students should consider the following restrictions.

- If the course is slashlisted (i.e., offered at the 4000- and 5000-level), undergraduate students should take the 4000-level version unless they are applying for graduate credit.
- Any 5000-level METR elective can count towards the upper-level meteorology elective.
- Graduate courses applied to a bachelor's degree cannot be applied to a future graduate degree, except in [accelerated dual-degree programs](#) discussed below.

Prior to enrolling in graduate-level coursework, the student should consult with the academic unit from which they intend to receive a future graduate degree to determine if the course is needed for or would count towards the degree requirements and to discuss the implications of taking the course as an undergraduate. Not all graduate-level courses can be applied to fulfill degree requirements, and some graduate degree programs restrict the amount of credit taken prior to admission that can be applied to the degree program.

After consultation, if the student wishes to apply for graduate credit, they must complete the following.

1.1.7.1. Applying for Graduate Credit

To apply for graduate credit, the student must submit the [Application for Graduate Credit for Courses Taken during Junior and Senior Years](#) within the first two weeks of the course. This form requires signatures from the student, the course instructor, the SoM Graduate Liaison, the SoM academic advisor, and (after form submission) the Dean of the Graduate College.

The Graduate College will verify that the student earned a grade of A, B, C, in the course. Note that some graduate programs require an A or B to receive graduate credit.

If all of the above stipulations are satisfied, the Office of the Registrar will note on the student's transcript that graduate credit was earned in the course.

Students cannot retroactively request graduate credit for a course they already have completed.

1.2. Accelerated Dual-Degree Programs

Due to needs in the private sector for graduates with business and data science skills, and in collaboration with the [Price College of Business](#) and the [Gallogly College of Engineering](#), respectively, SoM offers accelerated dual-degree programs (“4+1” programs) that enable students to earn a Bachelor of Science in Meteorology and a graduate degree sequentially in five years. Checksheets and semester-by-semester plans can be found at the following links.

- [Meteorology, B.S./M.B.A.](#)
- [Meteorology, B.S./Data Science and Analytics, M.S.](#)

Students can apply for these programs in their junior year. Students take all of the courses required for the Bachelor of Science in Meteorology outlined in [Section 1.1](#). In addition, they take courses that count toward both degrees in their fourth year and graduate courses in their fifth year. Details about admission to these programs can be found in [Section 2.4](#) and [Section 2.5](#).

Students accepted and enrolled in either 4+1 program are eligible to take METR graduate courses as part of their shared credit. Students will only be given permission to enroll in these courses by the Coordinator of Graduate Programs or Associate Director for Undergraduate Programs if they have an approved (signed) Accelerated Degree Graduate Coursework Plan (ADGCP) listing the METR course in question. This ensures that the course will count as shared credit for both programs.

1.3. Minors

A minor is not required as part of the Meteorology degree program, but a variety of minors exist that complement a degree in meteorology. Some highly relevant and popular minors are listed below, although students can pursue any* minor offered at OU, or none. If a student is planning to pursue more than one minor, they should know that a given class cannot be used to satisfy requirements for two different minors. Minors are declared through the college in which they are offered.

- The [Broadcast Meteorology minor](#) is offered by the Gaylord College of Journalism and Mass Communication only to Meteorology majors and is earned by taking 17 credit hours in communication courses concurrently with Meteorology major courses. Students must complete the LST/AIT exams prior to enrolling in JMC 2033.
- The [Mathematics minor](#) offered by the Dodge Family College of Arts and Sciences can be earned by completing both MATH 4753 and a 4000-level math course as an upper-division elective. A popular elective choice that also may support graduate school requirements is MATH 4163: Introduction to Partial Differential Equations.
- Students interested in the [Computer Science minor](#) offered by the Gallogly College of Engineering are recommended to take C S 1323 or 1324 to ensure they have the necessary prerequisites for later computer science courses.
- Students pursuing degrees in geographic information science and geographic information systems use data to map, model, and analyze various problems related to geography and meteorology. A [Geographic Information Systems minor](#) is available through CAGS.

- The [Climate Adaptation minor](#) offered by CAGS explores climate change adaptation from an interdisciplinary perspective.

*See [Section 1.3.1](#) on Meteorology Minor and [Section 1.3.2](#) on Weather and Climate Minor

1.3.1. Meteorology Minor

CAGS offers a [Meteorology minor](#) that is not available to Meteorology majors. The Meteorology minor consists of 16 credit hours in meteorology courses, with 9 credit hours at the upper-division level. Students taking courses for the minor must adhere to the course prerequisites as set by SoM. A minimum 2.25 GPA is required in all work presented for minor credit.

Required courses of Meteorology minor:

- METR 1003: Introduction to Atmospheric Sciences
- METR 2004: Atmospheric Circulations
- 9 credit hours of upper-division Meteorology courses

1.3.2. Weather and Climate Minor

CAGS offers a [Weather and Climate minor](#) that is not available to Meteorology or Geography majors. The Weather and Climate minor consists of 15 credit hours in meteorology and geography courses, with 9 credit hours at the upper-division level. A minimum 2.0 GPA is required in all work presented for minor credit.

1.4. Credit Hours and Workload

Most METR courses are 3 credit hours. In general, this means either 3 x 50 minute class meetings per week or 2 x 75 minute class meetings per week, with some exceptions.

In addition to in-class time, a student is *expected* to study for a minimum of 2 hours outside of class for every one hour spent in class. This includes studying for exams, completing homework assignments or quizzes or projects, reading textbooks, rewriting notes, preparing for class, etc. This is a federal requirement for credit hours.

For a 3 credit hour course, the average time spent per week is

- 3 hours in-class contact hours and
- 6–9 hours of independent work outside of class for
- **9–12 hours per week total**

Courses that do not have the required face-to-face contact time (for example, hybrid or online courses) still meet the total hour standard. For hybrid and online courses, the in-class and out-of-class hour divide would be different. The course covers the same material in the same depth as a face-to-face version of the same course.

If you take 15 credit hours in a semester, your total expected workload would be:

- 15 hours in-class contact hours and
- 30–45 hours of independent work outside of class for
- **45–60 hours per week total**

2. Admission and Preparation for First Enrollment

2.1. Pre-College Preparation

No prior meteorology, atmospheric science, or climate knowledge is required upon beginning a Meteorology degree at OU. Your core courses are designed to introduce meteorological concepts and build upon them throughout the program.

In preparation for the curriculum, which necessarily requires math and physics courses, consider the course requirements ([Section 1.1](#)) and try to take classes in high school that will support them. Students will benefit by taking as many math courses as possible in high school, especially in algebra and calculus. Additionally, if your school offers them, take high school courses in physics, chemistry, and computer science. *You can be successful in the program if you are unable to take such courses in high school, but it **may** require longer than 4 years (8 semesters), or it may require several summer semesters, to complete your degree if you cannot begin the calculus sequence upon entering OU.*

Take language courses in high school if possible: Students who have not completed two years of the same language in high school are required to take two college courses in the same language.

Consider taking Advanced Placement (AP) or concurrent enrollment courses if available to you to earn college credit. Students who score 3 or above on an AP test may receive college credit. See OU's pages on [AP credit](#) and [concurrent enrollment](#) for more information.

OU awards college credit for certain College Level Examination Program (CLEP) subject examinations that meet minimum scores. See OU's page on [CLEP credit](#) for more information.

OU may award college credit to students who have taken higher-level courses in the International Baccalaureate (IB) Program and scored 4 or above on the course examination. See OU's page on [IB credit](#) for more information.

Gradually increase your study time in your courses and refine your time management skills.

The above actions help students prepare for college and the Meteorology program.

2.2. Freshman Admission

2.2.1. Admission to OU

Prospective students should visit OU's [Freshman Admissions page](#) for details on how and by when to apply to the University and what supporting documents must be submitted. Freshman Admission for the Fall semester proceeds according to the following deadlines:

- 1 August: Admission application opens
- 1 October: Free Application for Federal Student Aid (FAFSA) opens for Fall
- 1 November: Early action admission deadline
- 15 December: Final scholarship admission deadline
- 1 February: Final admission deadline

OU is [test optional](#), which means that submitting ACT and/or SAT scores for admission is optional. When deciding whether to take and submit scores for these tests, consider how they will help you be competitive for [OU incoming student scholarships](#) (scores are encouraged for scholarship consideration), if they will help your holistic application, and how they will help you place into accurate courses. ACT and/or SAT scores are not required for scholarships and tuition waivers awarded by SoM.

While there is no minimum GPA requirement for admission, high school GPA is the most significant factor in determining admission. Freshmen must meet the minimum high school curricular requirements for college preparatory (core) coursework, although a more rigorous selection is recommended, especially for math and science.

2.2.2. Admission to SoM

There is no additional admission process to SoM.

Students can declare a Meteorology major when they enter OU, or at any time during their freshmen year. They will enroll and be advised in CAGS after declaring the major. To remain in good standing in CAGS, they must maintain a minimum 2.25 OU and overall GPA

2.3. Transfer Admission

To be admitted to OU as a transfer student, a student must have attended an accredited college or university and successfully completed at least 7 credit hours post-high school graduation. This excludes remedial (pre-college) work or credit hours earned while concurrently enrolled in high school.

SoM welcomes transfer students from junior colleges, community colleges, and other universities. Students preparing to transfer are encouraged to inspect the [Meteorology, B.S. requirements](#) ([Section 1.1](#)). It is recommended that transfer students visit CAGS in-person or virtually prior to choosing to come to OU. To schedule a visit, please email the SoM Academic Advisor (contact information in [Section 15.3.2](#)).

It is important for transfer students to understand the commitment they are making and the potential careers available to them in meteorology and to be familiar with this Undergraduate Handbook. It is important for all students to understand that the Meteorology degree program builds one course upon another. Regardless of the amount of college credit earned through AP, concurrent enrollment, transfer, or a prior degree, ***it will take a minimum of three years to complete this program as a transfer student***. The only possible exception is if you are transferring from a meteorology Bachelor of Science degree program at another institution and already have completed sufficient coursework in it.

2.3.1. Admission to OU

See OU's [Transfer Admissions page](#) for details on how and by when to apply to the University and what supporting documents must be submitted. Transfer students with fewer than 24 non-remedial credit hours additionally must meet the direct from high school admission requirements in addition to their academic college's transfer GPA requirement.

Transfer Admission proceeds according to the following deadlines:

- 1 August: Fall and Summer application opens
- 1 October: Spring priority scholarship deadline
- 1 November: Spring application deadline
- 1 March: Summer/Fall priority scholarship deadline
- 1 April: Summer application deadline
- 1 May: Fall application deadline
- 1 June: Spring application opens
- 1 July: Fall documents deadline

OU offers several events that transfer students can attend. See the High School Seniors & Transfers section of the [Events at OU page](#) for event details and dates.

2.3.2. Admission to the School of Meteorology

Transfer students with at least 24 non-remedial credit hours must meet the requirement of at least a 2.5 GPA to be assured admission to CAGS. Upon admission to CAGS, initial advising for transfer students is done at the college level. During their first semester at OU, transfer students will be assigned an academic advisor ([Section 7.1](#)).

2.3.3. Transferring Courses

It is important to work with CAGS to ensure the best possible outcome when transferring courses to OU. To determine if and how courses will transfer to OU, the Office of Admissions and Recruitment will evaluate your credits. In the meantime, you can estimate what will transfer using the [OU Transfer Equivalencies Database](#). Be aware that not every course will transfer smoothly. If there are courses that do not automatically transfer, students can obtain syllabi for those courses and have the courses reviewed.

SoM encourages students to try to complete all calculus coursework at one institution. Therefore, if a student is going to start their calculus coursework at another institution, it is best for them to plan to complete all of their calculus coursework at that institution.

2.4. Admission to the Meteorology, B.S./M.B.A.

In collaboration with the [Price College of Business](#), Meteorology majors can apply to the accelerated five-year [Meteorology, B.S./M.B.A. dual-degree program](#) about halfway through their junior year. Minimum admission requirements include:

- Undergraduate OU student majoring in Meteorology
- Maintain OU retention GPA and combined retention GPA of 3.0 or above
- Junior standing in Meteorology
- Successfully completed at least 12 credit hours of Meteorology courses at OU

The [initial Meteorology B.S./M.B.A. application](#) must be completed by February 15th of junior year.

- Each Fall, representatives from the MBA office hold an information session with prospective/interested students. The information session covers the application process and MBA program requirements with all prospective applicants.
- Interested students submit the initial application electronically by February 15th of their junior year for Fall admission. This includes the online application form, a personal

statement explaining the applicant's career goals and why they want an OU MBA, a current resume, and an unofficial OU transcript. The applicant can include their Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) score at this time if they have it.

- The MBA office communicates with the applicant to acknowledge application receipt and briefly tells the applicant an overview of what to expect next.
- The Directors of SoM review and approve the application (e.g., to check that the METR requirements are met).
- The MBA office then resumes communication with the applicant about their decision on moving forward with application review, potential missing entrance exam score, and timeline. The MBA office also will communicate the final admission decision with SoM.
- Students need to take the GMAT or GRE before the MBA admission committee can review their application. Students must email their GMAT or GRE score to the MBA office at oklahomamba@ou.edu by May 15th of their junior year.
- After the MBA admission committee review, the student will be contacted for an admissions interview (required for admission consideration).

2.5. Admission to Meteorology, B.S./Data Science and Analytics, M.S.

In collaboration with the [Gallogly College of Engineering Data Science and Analytics Institute](#), Meteorology majors can apply to the accelerated five-year [Meteorology, B.S./Data Science and Analytics, M.S. dual-degree program](#) prior to their senior year. Minimum admission requirements include:

- Undergraduate OU student majoring in Industrial and Systems Engineering or Meteorology
- Minimum OU retention GPA and combined retention GPA of 3.0 or above
- Successfully completed at least 12 credit hours of ISE, C S, or METR courses at OU
- Successfully completed prerequisite courses (MATH 1914, MATH 2924, MATH 3333, C S 1323, and C S 2334).

Most notable is the importance of the prerequisite courses, ***especially the freshmen-level programming course C S 1323***, to set students on the right track for this program.

Much of the M.S. program can be completed online.

The [Accelerated Program Application form](#) and the following documents must be submitted by June 1st prior to senior year to the Academic Programs Coordinator in CEC 409 or emailed to datascience@ou.edu.

- "My Degree Navigator Record"
- Statement of purpose
- Two letters of recommendation from OU faculty/instructors
- Completed Accelerated Degree Graduate Coursework Plan (ADGCP)

3. Code of Conduct

All students should be familiar with OU's [Student Rights and Responsibilities Code of Conduct](#).

Enrollment in the University creates special obligations beyond those attendant upon membership in general society. In addition to the requirement of compliance with all applicable laws and regulations, students enrolled at OU assume the obligation to comply with all applicable University and College regulations.

Faculty responsibilities, including academic responsibilities, are addressed in the [Faculty Handbook](#).

3.1. Academic Integrity

It is OU's mission to create an academic culture that fosters student integrity both in and out of the classroom. Students must be familiar with the [Academic Integrity Code](#), which always will be upheld in SoM.

3.2. NWC Protocol

All students are required to abide by the [National Weather Center Protocol](#) while participating in any National Weather Center (NWC) and/or SoM-related activities within and outside of the NWC. Students and their guests must follow the expected behaviors such as being considerate and respectful of and collaborative with others and following OU's [Student Rights and Responsibilities Code of Conduct \(Section 3\)](#). Examples of unacceptable behaviors are harassment, intimidation, and discrimination in any form. In cases where NWC policies are violated, the NWC Director, NWC security/local police, or any other applicable authority may take any necessary actions such as removing and prohibiting future attendance at NWC-related activities.

3.3. Reporting

If you or others are in immediate danger and/or in need of medical attention, call 911.

It is the responsibility of all potential parties or witnesses to an alleged violation of the Student Code of Conduct to participate in the conduct process. Students have a duty to cooperate and discuss the incident with appropriate University officials, adhere to stated deadlines, attend scheduled meetings, provide documentation as requested, and participate in all proceedings. Failure to meet these duties may result in a decision being made without the benefit of the student's participation or may result in a student being charged with failing to comply with the direction of a University official.

When a student witnesses any unexpected behaviors, such incidents should be reported by one or more of the following methods:

1. OU Report It! OU 24-Hour Reporting Hotline: Call 844-428-6531 or go online to [OU Report It! Make a Report](#).

The OU Report It! hotline enables reporting of concerns related, but not limited, to human resources, academics, safety, student affairs, accounting and financial,

regulatory and policy compliance, institutional equity, athletics, and research. You can also “Follow Up on a Report” via the OU Report It! Website.

2. [OU Online Reporting](#) of student conduct incidents, student housing incidents, hazing, concerning behavior, student tragedy, and sexual misconduct, harassment, and discrimination.
3. [OU Advocates](#) 24-hour Confidential Reporting Helpline: Call 405-615-0013.

OU Advocates is a 24/7 helpline and provides in-person services Monday–Friday 9am–5pm for anyone in the OU community who experiences sexual assault, dating or domestic violence, stalking, and/or sexual harassment.

Faculty and most OU employees are mandatory reporters. This means when they become aware of any alleged act of sexual assault, stalking, dating or domestic violence, sexual harassment, or gender discrimination, they must report the incidents to the [Institutional Equity Office](#) (Norman Main Campus: 405-325-3546, Norman South Research Campus: 405-325-2215, ieo@ou.edu).

If you are experiencing persistent microaggressions and/or consistently borderline behaviors in the School, and speaking with the party directly has not resolved the situation or you are uncomfortable with speaking to them directly, please speak with the SoM academic advisor, a trusted mentor in the School, or the Director or Associate Directors (contact information in [Section 15.3.2](#)).

If you are not sure what category the behaviors you are experiencing or witnessing fall into, or if you are not sure where to start, you can contact the [SoM Student Affairs Committee](#) (SAC) at somsac@ou.edu.

3.4. Safety

Safety in the NWC:

- 24/7 on-site [OU Police Department](#) (OUPD) Security Staff (405-325-1157)
- NWC 1313 and NWC 1350 are the Best Available Refuge Areas during severe weather.
- Public address system and phone/zone paging intercom system
- Fire, tornado, and shelter-in-place drills are conducted annually.
- NWC Emergency Response Plan available in the CAGS Dean’s Office
- Blue lights are located around the facility with intercom to OUPD and radio contact with security guards.
- Defibrillators and bleeding control kits are located on each floor next to atrium elevators.
- A first aid kit is located at the Security Staff desk at the 1st floor main entrance.

[SafeWalk](#): This free service provided by Housing and Residence Life utilizes resident advisors to accompany residential students on main campus.

- SafeWalk is available from 8 p.m. to 2 a.m., Sunday to Thursday. Call 405-325-WALK (9255) or use blue emergency phones and ask to be connected to SafeWalk.
- On Friday and Saturday nights, call the OUPD non-emergency number 405-325-1717 or 405-325-2864.

[SafeRide](#): This program provides safe, free transportation to OU students within the designed Norman zone—no questions asked. SafeRide operates Thursdays, Fridays, and Saturdays from 10 p.m. to 3 a.m. during the program calendar.

4. Access and Opportunity

SoM is committed to providing a place where all community members are empowered to learn, research, and grow. We envision a fair, inclusive culture that intentionally supports SoM community members from all backgrounds, values their contributions, and integrates them into the scientific and educational experience, creating mutually beneficial outcomes for community members and activities alike.

4.1. Accessibility and Disability Resources

SoM works to comply with all federal laws and University policies. Students who require accommodations should work with OU's [Accessibility and Disability Resource Center](#) (ADRC).

We have partnered with the [NWC Library](#) to provide a satellite testing space in the NWC for our students with testing accommodations.

4.2. OU Resources and Opportunities

- [OU Division of Student Affairs](#) strives to enhance students' academic success by developing student skills, cultivating diverse campus life experiences, and enriching the university community through programs and services.
- [OU Office of Advocacy and Education](#) is dedicated to cultivating a safe and affirming environment for all students. Services include OU Advocates, the OU Food Pantry, gender-based violence awareness and prevention training, and overall wellness education.
- [International Student Services](#) provides services to international students including advice on issues related to student visas and United States immigration regulations as well as activities and programs to help students get involved in the international, OU, and local communities.
- OU's [Project Threshold and TRIO Center](#) focuses on increasing the retention and graduation rates of eligible program participants (first-generation, Pell grant eligible, and/or has a documented disability) through academic advisement and coaching, assistance accessing tutoring, assistance applying to scholarships, student success programming, computer lab access, and printing access.
- OU's [McNair Scholar program](#) prepares first generation and low-income undergraduate students for doctoral graduate programs. It is open to juniors and rising seniors from all majors, with preference given to students in science, technology, engineering, and mathematics (STEM).
- [LAMINAR](#) strives to provide support to LGBTQIA+ students and their supporters within CAGS to promote exploration of career opportunities. Any undergraduate student is welcome to join.
- [Green Week](#) is OU's largest environmentalist and sustainability organization, promoting accessible and inclusive conservation and preservation efforts to the entire campus community. Through events, community outreach, and sponsorships, Green Week advocates for a healthier and more conscious campus environment. Any undergraduate student is welcome to join.
- The [OU Native Nations Center for Tribal Policy Research](#) is a research and policy institute situated within the Office of the President. They have breakfasts, information sessions, panels, workshops, and other events that may be of interest to any undergraduate student.

4.3. External Resources and Opportunities

Here we include some resources and opportunities external to OU that are available for students. This list is by no means comprehensive, and students also should explore the scholarships and awards presented in [Section 6](#) and the resources for student success in [Section 14](#).

The following are funding and research opportunities.

- [American Meteorological Society Scholarships and Fellowships](#)
- [National Weather Association Foundation Scholarships and Grants](#)
- [American Geosciences Institute Scholarships in the Geosciences](#)
- The National Science Foundation (NSF) [Significant Opportunities in Atmospheric Research and Science](#) (SOARS) is an undergraduate-to-graduate bridge and career pathways program designed to promote and support research, mentoring, and community in the atmospheric and Earth systems sciences. SOARS participants, called protégés, spend up to four summers doing research in atmospheric and related sciences. SOARS offers comprehensive financial support for summer research, including housing and transportation, and conference travel.
- The NSF [Research Experiences for Undergraduates](#) (REU) program supports intensive research by undergraduate students in any area of research funded by NSF, including atmospheric science. Students can apply to REU sites in the United States and worldwide. At each REU site, students work closely with faculty and other researchers to receive mentorship and build their professional network. REU offers financial support for summer research and, in many cases, assistance with housing, transportation, and conference travel.

Many of the following affinity groups and organizations provide mentoring, networking, and scholarship opportunities along with membership.

- The [American Meteorological Society Education and Engagement Commission](#) houses boards and committees that may be of interest to students and professionals, such as the Board on Student Affairs, the Board on Community Service, the Board on Outreach and Informal Education, the Board on Representation, Accessibility, Inclusion, and Diversity, and the Student Conference Committee.
- The [Geoscience Information Society](#) (GSIS) facilitates the exchange of information in the geosciences. GSIS welcomes those who are involved in all aspects of the geosciences.
- [GeoLatinas](#) embraces, empowers, and inspires Latinas to pursue and thrive in careers in Earth and planetary sciences. They welcome all in the geoscience community to become members.
- The [American Indian Science and Engineering Society](#) empowers students, equips educators, advances careers, and transforms systems so Indigenous people thrive and shape the world through science, technology, engineering, and mathematics. They welcome everyone who shares a passion for STEM to become members.
- The [National Association of Black Geoscientists](#) promotes, advocates for, and supports Black geoscientists. They welcome students in good academic standing majoring in the geosciences and related disciplines as well as professionals to become members.
- The [Society for the Advancement of Chicanos/Hispanics and Native Americans in Science](#) is dedicated to building a national network of diverse voices and perspectives to bring creative solutions to compelling issues in STEM. They welcome all students and professionals to become members.

- [Latinos in Science and Engineering](#) is committed to promoting, cultivating, and advancing representation of Latino leadership and education in STEM. They welcome all students and professionals to become members.
- The [Earth Science Women's Network](#) is dedicated to moving the geosciences forward. They welcome anyone to become members.
- [Out in Science, Technology, Engineering, and Mathematics](#) is the largest chapter-based organization focused on LGBTQ+ people in STEM. They welcome all in the STEM community to become members.

The following are Norman and Greater Oklahoma City community resources.

- City websites such as for the [City of Norman](#) and the [City of OKC](#) and county websites such as for [Cleveland County](#) and [Oklahoma County](#) include news, meeting and community calendars and agendas, events, volunteer opportunities, boards and commissions, projects and initiatives, and information on recreation, arts, culture, and sports opportunities.
- Tourism websites like [Visit Norman](#), [Downtown Norman](#), [Visit OKC](#), and [TravelOK.com](#) include information about restaurants, shopping, recreation, festivals, historical and cultural opportunities, sporting events, and more.
- Local news includes [OU Daily](#) and [OU Nightly](#), [KGOU](#), [The Norman Transcript](#), [The Oklahoman](#), [KFOR](#), [KOCO](#), [KOKH](#), [News 9](#), and others.
- Chambers of commerce include [Norman Chamber of Commerce](#), [South OKC Chamber](#), [Greater Oklahoma City Chamber of Commerce](#), [Greater Oklahoma City Hispanic Chamber of Commerce](#), [Oklahoma City Black Chamber of Commerce](#), and others.
- Business guides include [OU Campus Corner](#), [OU Daily Best of Norman](#), [Keep It Local OK!](#), [405 Magazine](#), [Oklahoma Black-Owned Business Directory](#), Oklahoma Commerce [minority-owned](#) and [women-owned](#) business information, and others.
- Libraries include [Pioneer Library System](#) and [Metropolitan Library System](#).
- Health and wellness include [Norman Regional Health System](#), [Immediate Care of Oklahoma](#), [Classen Urgent Care Norman](#), [Central Oklahoma Community Mental Health Center](#), [Cleveland County Wellness Square](#) ("The Well"), [Women's Resource Center](#), and others.
- Transportation includes [Campus Area Rapid Transit](#), [EMBARK Norman](#), [AMTRAK Norman](#), [Greyhound Norman](#), and [Will Rogers International Airport](#), and others.
- Other area resources include [PFLAG Norman](#), [Norman Pride](#), [Norman Arts Council](#), [Norman Firehouse Art Center](#), [Urban League of Greater Oklahoma City](#), [OKC Pride Alliance](#), [Oklahoma Historical Society](#), [Moore-Norman Technology Center](#), and others.

4.4. Reporting and Safety

The NWC is staffed by OUPD security officers 24/7 (405-325-1157), and all personnel are required to always display OU or National Oceanic and Atmospheric Administration (NOAA) credentials.

The reporting options infographic in [Section 3.3](#) includes information for reporting incidents of misconduct, bias, microaggressions, and more.

5. Storm Chasing Policy

CAGS does not condone or encourage storm chasing by students. Anyone who chooses to chase storms does so at their own risk and should not imply that their activities are connected with the University. The only possible exception is when students are officially included in storm intercept activities conducted as part of well-planned and safety-trained scientific projects led by faculty or scientists in the NWC research units. Storm chasing is not part of the SoM course curriculum nor should such activities take precedence over the academic activities of the School such as coursework and attending classes and seminars.

6. Student Scholarships and Awards

There are seven main ways Meteorology majors can fund their college education:

- Financial aid
- OU-specific scholarships
- SoM tuition waivers
- Annual SoM student awards/scholarships
- External meteorology/atmospheric science, STEM, and other scholarships
- Student employment and internships ([Section 12](#))
- Personal and family funds

The information and resources here are an introduction to common possible funding sources. They should not be considered comprehensive.

6.1. Financial Aid

FAFSA: It is recommended that every undergraduate student complete a FAFSA form every year, regardless of family income level, because many scholarships require a student to have a FAFSA form on file to be considered for that scholarship. More information about the FAFSA can be found through OU's [Student Financial Center](#) (SFC).

6.2. OU-Specific Scholarships, Awards, and Tuition Waivers

CASH: The [Centralized Academic Scholarship Hub](#) (CASH) is where current OU students can apply for OU scholarships. CAGS scholarships, SoM tuition waivers ([Section 6.3](#)), SoM scholarships and awards ([Section 6.4](#)), financial aid scholarships, study abroad scholarships, Sooner Heritage Scholarships, Sooner Parents Scholarships, and campus awards all are housed in CASH. It is important for every undergraduate student to complete a CASH application every year. CASH applications generally are due February 1st. See the SFC's [CASH page](#) for details.

CAGS scholarships and awards: CAGS offers [additional scholarships and awards](#).

Partner organization scholarships and awards: Partner organizations within and around the NWC offer [additional scholarships and awards](#). Students should regularly check their emails for announcements of these awards.

WATW: The [Work Assistance Tuition Waiver](#) (WATW) is designed to assist current undergraduate students that work 25+ hours per week during the academic year. The intent of the waiver is to help these students with their finances so they can work fewer hours during the semester and focus more time and energy on their studies. Students receiving the waiver are not required to continue working 25+ hours a week during the semester(s) it is applied to their account.

6.3. SoM Tuition Waivers

The **SoM Tuition Waiver Program** seeks to attract and retain highly qualified Meteorology students. The program awards partial tuition waivers that help defray the cost of attending OU for full-time residents and non-residents. The annual awards range from \$500 to \$5000 and are in addition to any other tuition waivers offered by OU. Around ten new awards are made each

year. The awards typically are renewed for up to four years if the student remains a full-time Meteorology major and maintains at least a 3.0 GPA at OU.

Initial awards are made based on the material submitted as part of students' application to OU ([Section 2](#)). All students who apply to OU and list Meteorology as their intended major by the scholarship consideration deadline are automatically considered for the tuition waiver program. A holistic approach is taken to making tuition waiver selections, and we look at all components of the application, including written statements. We look for students that show enthusiasm for meteorology, persistence, community and collegiality, adaptability, creativity, and commitment.

Tuition waiver awards are also made to outstanding full-time existing and transfer students after their first year at OU when funds are available, based upon CASH applications.

6.3.1 SoM Needs-Based Tuition Waivers

Each year, depending on funding availability, tuition waivers are awarded to students with financial need. This is *not* financial need as determined by a student's FAFSA. Students already receiving a tuition waiver from SoM or another source are eligible for this award, though the amount of support given via the waiver outlined here will be limited to the remaining need of the student (i.e., their outstanding tuition balance). Eligible students must have a declared major in Meteorology and apply when an email announcement for needs-based tuition waivers is distributed.

6.4. Annual SoM Student Scholarships and Awards

Each year, SoM presents several scholarships and awards to current students; these awards often have been funded through the generosity of friends and alumni of SoM. Typically, awards are presented in April, and students receive a monetary award and a certificate. For several of the awards, the students' names will be placed on the SoM recognition wall in the NWC. All students must be in good academic standing to be eligible for an award.

Students must meet the academic standing or credit hour requirements for the year in which they will receive the scholarship (i.e., in the academic year after they apply for the scholarship). For example, sophomore standing means freshmen could apply and receive the scholarship if they achieve sophomore status the following year.

The following are awarded via CASH ([Section 6.2](#)).

- **Droegemeier Endowed Scholarship for Excellence in Meteorology:** Awarded to a full-time Meteorology student who has completed at least 45 credit hours of coursework (including AP but not transfer credits) at OU and has maintained at least a 3.5 GPA in their meteorology courses as well as the direct prerequisites for those courses.
- **Dr. Rex Inman Memorial Scholarship:** Awarded to a full-time Meteorology student who has maintained at least a 3.0 GPA and has demonstrated financial need.
- **Dr. Edwin & Lottie Kessler Memorial Endowed Scholarship in Meteorology:** Awarded to a full-time Meteorology student in their sophomore or above meteorology courses who has maintained at least a 2.8 OU retention GPA and has demonstrated financial need.
- **Eric Nguyen Memorial Scholarship:** Awarded to a full-time Meteorology student with at least a 3.0 OU retention GPA who is making satisfactory progress toward graduation and needs supplemental financial assistance. Preference is for students who show an

expressed interest in weather instrumentation and computing or are actively involved in developing and maintaining weather displays and visualizations, for example as part of the Oklahoma Weather Lab (OWL) or Hub of OWL Operational Technology (HOOT).

- **Forrest W. Johns Memorial Meteorology Scholarship:** Awarded to a full-time Meteorology student based on the quantity and quality of the student's contributions to OWL. Those contributions include leadership, forecast skills, and overall participation. The student must have at least a 3.0 retention GPA and at least a 2.5 GPA in the Meteorology major.
- **Thomas J. Lockhart Memorial Scholarship in Meteorological Measures & Observing Systems:** Awarded to a Meteorology student who has attained at least junior status and who has demonstrated an interest in meteorological measurements and observing systems.
- **Nair Family Scholarship:** Awarded to a full-time Meteorology student with demonstrated financial need.
- **OU3 Memorial Meteorology Endowed Scholarship:** Awarded to a Meteorology student in good standing and who is making satisfactory progress toward graduation.
- **Burre Family Endowed Scholarship:** Awarded to a full-time Meteorology student with junior or senior academic standing and a minimum 3.0 GPA. Priority consideration will be given to candidates who have attained a BSA Eagle Scout rank or Girl Scout Gold Award; or are enrolled in the Air Force Reserve Officer Training Corps or other branch of the Reserve Officer Training Corp; or are involved in other leadership and/or community service activities.
- **E.W. (Joe) Friday Endowed Scholarship:** Awarded to a full-time female Meteorology student in their sophomore or junior meteorology courses. Criteria specifically include completion of at least 45 credit hours of coursework and a minimum of a 3.2 OU retention GPA. This award is not selected by the SoM scholarship committee per OU rules.

The following are awarded via faculty and staff nomination. Students are encouraged to request nomination for these awards from their academic advisor, mentor, or other faculty and staff in the Fall semester.

- **Faculty Recognition for Outstanding Performance as an Undergraduate:** The criteria for selection for this award include GPA and extracurricular activities such as jobs, volunteer work, and committee work.
- **SoM Director's Recognition for Outstanding Service to the Department as an Undergraduate Student:** Presented to an undergraduate student who has given freely of their time and talents to departmental activities such as participation in student groups or departmental tours.
- **Outstanding Teaching Assistant:** Presented to a graduate or undergraduate teaching assistant from either Spring, Summer, or Fall of the previous calendar year.
- **Tommy C. Craighead Award for Best Paper in Radar Meteorology:** Presented to any OU student or recent graduate (May, August, or December of the previous calendar year) who is the lead author on a refereed journal article (preferably accepted but at least submitted) with a focus on radar studies of the atmosphere. The research described in the article should be of superior quality and deemed to exemplify the interdisciplinary nature of remote sensing of the atmosphere using radar.
- **McCasland Award for Outstanding Undergraduate Research Paper:** Presented to the author(s) of a refereed journal article that was based on undergraduate research. Eligible submissions are published papers, submitted manuscripts, or nearly completed manuscripts from research projects during the previous calendar year. Given the time for

the journal submission and review process, the award is usually presented to alumni within one year of graduation.

The following are awarded based on academic performance.

- **Undergraduate Academic Achievement Award – Meteorology Junior with the Best Overall GPA**
- **Undergraduate Academic Achievement Award – Meteorology Senior with the Best Overall GPA**

6.5. External Meteorology/Atmospheric Science, STEM, and Other Scholarships

Also see [Section 4.3](#) and [Section 12.2](#) for additional opportunities with monetary awards.

- The **American Meteorological Society (AMS)** administers an array of undergraduate and graduate scholarships with the support of its members, corporations, and government agencies nationwide. The fellowships and scholarships help further the education of outstanding graduate and undergraduate students pursuing a career in the atmospheric and related oceanic or hydrologic sciences. Visit the [AMS Scholarships and Fellowships page](#) to learn more and apply.
- The **American Geophysical Union (AGU)** awards scholarships and travel grants to undergraduate majoring in geophysical fields, including meteorology. Visit the [AGU Travel Grants and Scholarships page](#) to learn more and apply.
- The **National Weather Association Foundation (NWAf)** awards scholarships and grants to undergraduate and, in some cases, graduate students majoring in meteorology or a related field. Visit the [NWAf Scholarships & Grants page](#) to learn more and apply.
- The **NOAA Hollings Undergraduate Scholarship** provides two years of academic assistance and a summer internship at a NOAA facility. Applications typically are due in January each year. For eligibility requirements and application details, visit the [Ernest F. Hollings Undergraduate Scholarship page](#).
- The **Department of War (DoW) Science, Mathematics, and Research for Transformation Scholarship-for-Service Program** provides merit-based scholarships to undergraduate and graduate students pursuing degrees in STEM disciplines. Recipients receive full tuition, annual stipends, and summer internships as well as civilian employment with the DoW after graduation. Visit the [DoW STEM Scholarships website](#) for details.
- **Pathways to Science** is an excellent resource to search for scholarships, programs, and opportunities. See their [Undergraduate Summer Research Programs & Scholarships in STEM page](#).
- **Others:** We encourage students to look to their local civic organizations, religious organizations, municipalities, employers, banks, insurance companies, etc. for scholarship opportunities. Even a small scholarship can make a big difference!

7. Advising, Enrollment, Mentoring, and Coaching

The following are useful resources for planning and scheduling courses.

- [iAdvise](#): Used for scheduling advising appointments in SoM and CAGS as well as other campus resources.
- [Stellic](#): A degree management tool that allows students to keep up with degree requirements (see [Section 1](#)), track their progress toward a particular degree, plan for future semesters, and see notes and updates from their advisor.
- [One](#): Access most student-related resources such as enrollment, financial aid, and bill payments.
- [ClassNav](#): Look up course schedules, descriptions, and prerequisites.

7.1. Academic Advising

Academic advising is provided to all students to decide on majors and minors, select appropriate courses, and become acquainted with OU policies and resources. All students must be advised each semester to remove the advising hold from their account and be eligible to enroll in courses. Academic advising is one of the key components in reaching your goal of graduation. Your academic advisor is someone who can help you select a major and career; monitor your academic progress; provide information in designing, developing, and implementing individual academic plans; link you to resources in getting connected on campus and in the community; and more.

Students who are new to the University will be advised and enroll during [New Sooner Orientation](#).

Once you are a student at OU with a declared major in Meteorology, you will have a professional academic advisor in SoM. This advisor will provide quality guidance in creating an academic plan tailored to your interests and goals.

Your advisor will assist you in the selection of courses, provide specific information on degree requirements, and help map out a plan for completing your degree in an optimal time frame, as well as developing parallel plans. Your advisor also can offer guidance on career pathways and other OU resources necessary for success.

- Advising for the Fall semester typically occurs in March and should be done by the end of this month.
- Advising for the Spring and Summer semesters typically occurs in October and should be done by the end of this month.
- Advising appointments are scheduled via [iAdvise](#).
- Students are asked to check their degree progress on [Stellic](#) and come to their advising appointment with a trial class schedule for the upcoming semester.
- If any course overrides or special permissions are required for courses, advisors will provide information on how to obtain these. SoM can only provide permissions for METR courses.
- Once you have met with your advisor, they will remove your advising hold for enrollment.

SoM Undergraduate Academic Advisor: Elizabeth Lund (elund@ou.edu, NWC Suite 5900)

- Advises Meteorology majors with 45 credit hours or less and last names beginning with A-G
- Advises Meteorology majors with 46 credit hours or more

DGES Undergraduate Academic Advisor: Karin Hickenbotham (karin.h@ou.edu, Sarkeys Energy Center 510)

- Advises Meteorology majors with 45 credit hours or less and last names beginning with H–Z

CAGS Director of Academic Advising: Brandi Moore (bm@ou.edu)

- Academic Advising Resource Center referrals
- Students on Academic Contract
- Degree checks and graduation clearance

7.2. Enrollment

1. **Know when to enroll.** Check out your Enrollment Window and Registration Status on [One](#). Mark your calendar with the day and time that your enrollment window opens.
2. **Check for holds.** Holds may keep you from enrolling during your Enrollment Window or impact other processes. You can check for holds by viewing Enrollment Windows and Registration Status on [One](#).
3. **Prepare for your advisement and be advised.** See [Section 7.1](#).
4. **Plan your schedule.** Use any materials provided by your academic advisor, the Trial Schedules you completed and discussed with them, and the Look Up Classes link found under the Academics tab on [One](#) to find the courses you need and plan your schedule, including checking pre- and co-requisites.
5. **Register for classes.** Click on the Enroll link under the Academics tab on [One](#). Choose the term you'd like to register for and use your trial schedules to complete your enrollment. Click Submit Changes and you should see a screen appear with your course schedule. If you have a registration error, it will be listed on this screen as well.
6. **Check your OU email following enrollment.** Make sure you receive email confirmation from Enrollment Services the next day following each registration transaction. If you do not receive an email, your transaction was not processed. Contact the [Division of Enrollment Management](#) immediately for assistance at 405-325-3572. Please keep all emails regarding registration until you receive your Bursar's statement at the beginning of the semester.

7.3. Mentoring

As discussed in [Section 7.1](#), your academic advisor helps you select courses and guides you toward completing your degree. As a Meteorology major, you also will have the opportunity for mentoring. A mentor can provide advice on curriculum issues and what courses to take like an advisor, and they can do much more. The late Morris Zelditch, an American sociologist, defined the six roles of mentors.

- Advisors: People with career experience willing to share their knowledge
- Supporters: People who give emotional and moral encouragement
- Tutors: People who give specific feedback on your performance
- Masters, in the sense of employers to whom you might be apprenticed
- Sponsors: Sources of information about, and aid in, obtaining opportunities
- Models of identity: The kind of person you should be as an academic

Note that advisor is only one of the roles a mentor might play during your undergraduate years and beyond. You likely will have many informal and formal mentors over the course of your

degree, and we recommend using the following “mentoring map” from PROGRESS Program to consider what *you* need to be successful and who can act as mentors in those areas.



7.3.1. School of Meteorology Mentoring Ecosystems

SoM students can be part of a mentoring ecosystem. Each ecosystem is a small group of undergraduate and graduate students as well as an ecosystem leader and is built around a shared interest or goal for the academic year. This system enables students to have individual meetings with a mentor and develop a network of supportive peers through group meetings or activities each semester. Ecosystem leaders are SoM faculty, including adjunct and affiliate faculty, and research scientists. Students can be matched into a mentoring ecosystem through a survey. Ecosystem mentors can provide mentoring regarding internships, research, minors, coursework, networking, career guidance, study abroad, and more. Ecosystem leaders, rather than academic advisors, often are ideal people to provide letters of recommendation for jobs, internships, scholarships, and more.

7.3.2. External Mentoring Programs

Numerous national and international mentoring programs exist for students in meteorology/atmospheric science and STEM in general. Several groups and organizations listed in [Section 4.3](#) provide mentoring programs in addition to those listed below.

- [Earth Sciences Mentor Match](#) connects students with mentorship support to apply for fellowships and graduate school in the Earth sciences, including atmospheric science.
- The [AMS Private Sector Mentorship Program](#) helps advanced undergraduate students connect with professionals in private industry for information, advice, and professional career development.
- The [GeoLatinas Mentoring Program](#) provides mentees with support and advice concerning study organization, university life, professional careers, and work-life balance conflicts as well as knowledge sharing opportunities to support personal and professional growth as a community.

- The National Weather Association (NWA) sometimes holds [virtual speed mentoring events](#).
- [STEM Advancement for Community, Research, Education, and Development \(SACRED\)](#) is six-month program designed to foster meaningful mentor-mentee relationships. This program provides guidance, connection, and opportunities for personal and professional growth, aligning with the principles of Vision, Strength, Connection, and Impact.

7.4 Academic Life Coaching

Academic life coaching is an innovative mentoring approach designed to provide individualized student support. A student regularly meets one-on-one with a specially trained coaching mentor to work together to identify stressors and establish goals that lead to academic success and degree completion. Unlike advising or counseling, life coaching focuses on where you are now and where you want to go, using one-on-one conversations to help you clarify goals, overcome obstacles, and create realistic action steps toward success.

CAGS recognizes that academic progress is closely connected to personal growth and well-being. As such, they have an embedded Academic Life Coach who works directly with students in the College to make accessing this support easier and more approachable.

See CAGS's [Academic Life Coaching page](#) for information about coaching in the NWC and on main campus.

8. IT and Computing

CAGS uses student technology fees to provide cutting-edge computer hardware, software, peripherals, media, and support to encourage academic growth, innovation and collaboration.

SoM's Information Technology (IT) team is here to help students, faculty, and staff with their computing and academic technology needs. They can be reached at metit@ou.edu.

All students should be familiar with OU IT's [Information System Acceptable Use Policy](#).

8.1. OU Email Address

OU IT assigns all students, faculty, and staff an @ou.edu e-mail address and Microsoft 365 mailbox upon creation of their [OUNet Account](#). This email address also can act as your log in username for several OU sites and applications.

Students should check their OU email at least daily. All important communications from SoM, CAGS, and OU will be via email to your OU email.

It is [University policy](#) that all OU business conducted by email is to be done only through the OU-provided email system. Personal email accounts or non-OU email systems should not be used. Students should use their OU email for OU business, such as to email their instructors, teaching assistants, and OU offices.

8.2. Personal Computers and Required Software

Having a personal computer is not required to complete a Meteorology degree, but it is very helpful. While the SoM IT team will support any computer, the recommended specifications are listed below.

- Minimum i7 Processor or better (Mac M4 or newer)
- 16 GB RAM
- 512 GB Hard Drive (Solid State Drive highly recommended)
- 1 GB Integrated Video (Discrete/Dedicated Graphics Card recommended)
- 802.11 n/ac Wireless
- At least 1 USB 3.0 Port
- Windows 10 or later (64 bit)
- MacOS 10.14: Mojave or later
- 3 Year Warranty (accidental damage highly recommended, not required)

Can I use a Chromebook? Chromebooks cannot run the required software to complete assignments within SoM.

OU students can access Microsoft Office 365, including Microsoft Office apps, for free at portal.office.com/, and download is available [for Windows](#) or [for Mac](#). Other office suites such as [Open Office](#) can read and write in the proper format and are available at no cost.

8.3. Programing

Computer programming and visualizing data is an important part of meteorology, which is why all students must complete a programming course in their freshmen year ([Section 1.1](#)). Most

meteorology classes that you will take for your degree will involve programming in [Python](#). If you learn, or have learned, a different language in high school, computer science classes at OU, or another institution, do not be concerned or discouraged: The principals of programming are universal, and the School will assist with any transitions.

The recommended Python distribution is [Miniforge](#). SoM IT may be able to provide limited support to get this software and your needed packages installed and running if you experience trouble. Specific issues with class assignments should be addressed by the instructor or teaching assistant of the class first.

8.4. Computer Labs

There are multiple computer labs available to undergraduates in the NWC. Within SoM, there is the Linux lab located in NWC 5720 and a computer in NWC 5401 (the undergraduate lounge). Students also can access computers in the NWC Library. The computers on the 5th floor are accessible with your SoM computing account (see [Section 8.4](#)). When using the Windows computers in the NWC Library, you must sign in with your OU 4x4 and password. Students will also have access to [multiple computer labs across campus](#) supported by OU IT.

8.5. Computing Accounts

Access to SoM computers requires a computing account. To request an account, complete the [SoM Computing Account Request Form](#). Accounts are created as requests are received.

8.6. Remote Access

Some resources are only available on the computers within the NWC. Undergraduate students can remotely access resources within the NWC from outside the building (e.g. from the dorms, main campus, or home residences). See the Remote Access portion of the [SoM Resources page](#) for details about two methods of remote access. This access must be renewed every semester.

9. Student Organizations

SoM has a variety of student organizations that offer a supportive environment and a broad range of opportunities that include peer mentoring, professional and social activities, field trips, and guest speakers and panels. Note that, except for the Student Affairs Committee, *you do not need to be a Meteorology major to participate in these organizations.*

9.1. Oklahoma Weather Lab

The Oklahoma Weather Lab (OWL) is a student-run forecasting organization within SoM at the NWC serving Key West, Florida and the state of Oklahoma. The lab hosts twice daily forecast shifts that take place in a state-of-the-art forecasting lab in the NWC.

Shift leaders (undergraduate students, typically junior and seniors) spend time during each shift teaching forecasting techniques and then guide students through forecasting temperatures, wind speed and direction, cloud cover, and precipitation. Students will get the chance to learn techniques such as reading atmospheric soundings, analyzing observed conditions, and forecasting with model guidance. The OWL lab also comes equipped with the Advanced Weather Interactive Processing System II, the same forecasting software used by the National Weather Service (NWS), giving students an unparalleled opportunity to gain critical skills necessary for operational forecasting in a professional environment.

In addition, on weekdays, OWL features a broadcast shift for [OU Nightly](#), OU's student-led local broadcast studio. During this shift, students have the chance to use the latest Baron software to create and present professional weather forecasts, giving students a fantastic opportunity to gain on-the-job experience in a supportive learning environment.

OWL also holds monthly workshops for students, which bring professional meteorologists and organizations to students in a friendly learning environment. Past speakers have included members of the WeatherBrains Brainy Bunch, Storm Prediction Center (SPC) and NWS forecasters, and The Weather Channel meteorologists such as Jim Cantore.

OWL also includes the Hub of OWL Operational Technology, which is OWL's development team. With HOOT, students can get practice developing new technology to support forecasting, including websites and data visualization.

Information about OWL and HOOT is available through the [OWL website](#).

9.2. OU Student Chapter of the AMS and NWA

The University of Oklahoma Student Chapter of the American Meteorological Society and National Weather Association (OU SCAN) is an independent student-run organization at OU. The purposes of this organization are to provide educational, professional, social, and service opportunities for OU students interested in meteorology and community weather awareness. OU SCAN accomplishes these purposes through monthly meetings held during the semester with speakers from the meteorology community, hosting numerous social and service events, and conducting weather outreach at public events and school visits. The [Weather Friends](#) are a particularly fun way to get involved in community weather outreach! This is the only student organization in SoM that has a small membership fee each year. Learn more about OU SCAN through the [OU SCAN website](#).

9.3. SoM Student Affairs Committee

The SoM Student Affairs Committee (SAC) is a Registered Student Organization of OU serving SoM students. SAC's purpose is to ensure formal communication between faculty and students regarding SoM and CAGS issues of direct importance to both undergraduate and graduate Meteorology students. SAC represents the study body at all faculty meetings and Undergraduate Studies Committee meetings and relays student input on various issues such as curricula changes, degree requirements, and School resources. SAC is composed of both undergraduate and graduate students who are elected each academic year. SAC holds Undergraduate Town Hall meetings in conjunction with SoM leadership to ensure continual communication and to collect feedback and concerns from students.

Undergraduates can hold several SAC positions including:

- Undergraduate Vice-Chairperson
- Secretary
- Treasurer
- International Representative
- Senior Representative
- Junior Representative
- Sophomore Representative

Learn more about SAC through the [SAC website](#).

9.4. School of Meteorology Outreach

School of Meteorology Outreach (SoMO) is a Registered Student Organization of OU dedicated to providing educational outreach activities on weather and climate to OU, Norman, and Oklahoma City metropolitan communities. SoMO members visit local schools and museums, prepare and provide teacher and student resources, and participate in National Weather Festival and other events, fairs, and conferences at and beyond the NWC and OU. In a short amount of time, this organization has become very popular in our communities and is quite active! Learn more about SoMO through the [SoMO website](#).

10. Meteorology Study Abroad Exchange Programs

As weather systems and climate patterns are not influenced by national borders, meteorology always has had a distinctly international flavor. Many of its operational and research activities are globally coordinated by the [World Meteorological Organization](#), a United Nations agency with headquarters in Geneva, Switzerland. As such, SoM students are encouraged to study abroad through any OU program, including in the summer. Students can explore study abroad opportunities on the [Education Abroad website](#).

SoM has exchange partnerships with the [University of Reading](#) in England and [Hamburg University](#) in Germany. Students from these institutions study in SoM, and our qualified Meteorology students can study abroad in the Spring semester of their junior year of meteorology classes.

Students who study abroad will receive 12–16 credit hours that semester, which typically equate to METR courses. The exact courses that they will receive credit for depends on the program, but all necessary core classes either will be taken at the institution abroad or accommodations will be made to take courses in a later semester at OU. In some cases, courses from the senior year sequence can be taken while abroad, which frees up hours for other courses. It is important to discuss your interest in studying abroad with your academic advisor to consider course scheduling alongside your goals.

Students interested in studying abroad should visit [OU Education Abroad](#), and *they should speak with the appropriate SoM study abroad liaison(s) and Study Abroad Advisor about 6–7 months prior to the start of their intended semester abroad.*

- [Reading exchange program information](#), liaisons: Stacey Hitchcock (stacey.hitchcock@ou.edu) and Austin Harris (austin.harris@ou.edu)
- [Hamburg exchange program information](#), liaison: Petra Klein (pkklein@ou.edu)

10.1. Eligibility

SoM applicants must have a 3.0 GPA and must have passed the Meteorology, B.S. 1000- and 2000-level core courses with grades of B or better. They should also perform well in METR 3113 and 3513 in the Fall semester of their junior year, as the coordinators will review midterm grades of these two courses before making a final decision.

Students who do not meet these criteria but have interest in studying abroad should meet with the coordinator(s) for the program of interest, as these requirements sometimes can be modified.

10.2. Application Process

Applications and selections for the Meteorology exchange programs are handled by SoM and OU's Education Abroad Program ([application process](#)). Students pay a \$50 application fee once they submit their application with OU's Education Abroad Office. A general information session about SoM exchange programs and the application process is held at the beginning of the Fall semester, and additional [Study Abroad 101 sessions](#) are held throughout the semester by Education Abroad. Applications typically are due by the end of September of a student's junior year but must be completed much earlier if a student wants to be eligible for scholarships (see

below). *The appropriate faculty liaison(s) for the program of interest should be listed as a reference on the Education Abroad application.*

In addition to the online application with OU Education Abroad, SoM students also must contact the SoM faculty liaison(s) of their chosen exchange program and send them an email with:

1. a short statement why they want to study abroad (this can be the same as the Education Abroad application) and
2. the names and contact information of two references.

The SoM faculty liaison(s) then will schedule a meeting with the student. After the meeting, the faculty liaison(s) will send a formal recommendation to the Education Abroad office, which will review all materials and make decisions about the acceptance of the applicants. It is important to note that applications without the SoM study abroad liaison(s) recommendation are not processed by the Education Abroad office. A decision by Education Abroad is made in October, and a final decision is made by SoM by November 1. Students performing poorly in their Fall courses may cause a reversal of an initial favorable decision.

10.3. Health and Safety

All study abroad students are automatically enrolled in study abroad student insurance through OnCall International for the duration of their program. Fees for this insurance are part of the program fee or are paid by the program participant prior to the program's departure. See the Study Abroad Insurance portion of Education Abroad's [Heath and Safety page](#) for details.

10.4. Finances

Partner University programs charge OU students the same tuition and fees that they would normally pay for a regular semester at OU, and *many allow students to utilize their tuition waivers, scholarships, and financial aid*. Students should work with the SoM faculty liaison(s), their Study Abroad Advisor, and [SFC](#) to make sure they are taking all necessary steps to pick a program that corresponds to their financial aid resources. Additionally, OU and Partners offer many scholarships specifically for studying abroad.

Those enrolling in less than 15 hours may be eligible for a [flat rate tuition exemption](#). OU Education Abroad also requires that all students participating in credit-bearing OU study abroad programs pay the international health and safety fee, which covers enrollment in OU's international health insurance plan, 24/7 risk management monitoring, and all other health and safety assistance provided. The cost of the international health and safety fee for a semester-long program is \$350. Students are responsible for pre-departure (e.g. passports and housing deposits) and transportation costs, as well as living expenses while abroad.

- Information about many possible scholarships to fund study abroad can be found on Education Abroad's [Money Matters page](#).
- Various study abroad scholarships are available through CASH, including the John T. Snow Study Abroad Scholarship for students in CAGS or the Mewbourne College of Earth and Energy. **Scholarship applications for study abroad funds are due the year before students attend (i.e. sophomore year, typically February), and they must already have an application with Education Abroad to be eligible.**
- The David L. Boren College of International Studies offers [internationally focused scholarships for all majors](#), which includes opportunities for study abroad.

- The [German Academic Exchange Service](#) (DAAD) is a funding program for students studying abroad at German universities. Deadlines vary but typically are in January.
- [Butex Scholarships](#) are offered to those studying from or at a Butex Full Member Institution and typically is due in June.
- The Department of State's [Benjamin A. Gilman International Scholarship Program](#) supports students of limited financial means to study or intern abroad. To be eligible for the Gilman Program, applicants must be receiving a Federal Pell Grant during the time of application or provide proof that they will be receiving a Pell Grant during the term of their study abroad program or internship.

11. Conference Attendance

Attending conferences of various professional organizations (e.g., AMS, NWA, AGU) can provide students with valuable networking and learning experiences, in addition to opportunities to demonstrate research.

Meteorology students can apply for travel funds to attend a professional conference, meeting, or symposium during their undergraduate career. The funding can be used to support meeting registration, flights, food, lodging, and other approved travel expenses. The number of students supported in a calendar year will be limited by the amount of available funds, with students who are presenting a talk or poster at a conference, as well as junior- and senior-level students, given priority when making funding decisions. [Applications for travel funds](#) through SoM are due at least 90 days before your trip.

Once you have received approval for your trip, you will work with SoM to book travel and make hotel reservations, if necessary. As many costs as possible will be paid for up front by SoM (e.g., conference registration, flights), but students will have to cover some costs out-of-pocket and will submit a form for reimbursement upon their return. To be reimbursed, students need to save the receipts from each transaction. It is important for students to remember that they will not be reimbursed beyond the amount for which they were approved.

Please be aware that the following restrictions apply when traveling with University funds: The University can cover economy airfare, shuttles, train, taxi, mileage to and from the airport, conference registration, per diem, and hotel but cannot cover souvenirs, room service, laundry services, or additional baggage fees beyond one checked bag. Exemptions can sometimes be made, but additional restrictions may apply. When in doubt about what may be covered, it is always better for students to be cautious and assume that costs will not be covered.

When participating in conferences and similar, students represent SoM, CAGS, OU, and any other organizations they are part of. Students must abide by the specific conference code of conduct as well as OU's Student Code of Conduct and the NWC Protocol (see [Section 3](#)).

12. Internships, Research, and Employment

12.1. Internships and Academic Credit

Meteorology students are encouraged to pursue internships. Internships cover a wide variety of experiences including broadcast meteorology, work with private sector companies, research, and outreach. They provide students with the opportunity to gain professional experience in their field of study and, in some cases, may lead to an entry-level position within the business or organization where the internship was performed. Although students are not required to seek academic credit for an internship, many internship employers require that students be enrolled in an internship course. Students may earn 1–3 hours of credit for a meteorology-related internship they complete at any time during the academic year, whether paid or unpaid.

Note: Although an internship can be given 1–3 hours of academic credit, an internship will not carry degree credit toward the Meteorology, B.S. unless the student obtains permission from the SoM Director for the internship credit to count for the upper-division meteorology elective.

To receive academic credit through SoM for an internship, a student must:

- have a declared major in Meteorology;
- have a minimum 2.0 GPA (OU and Retention);
- submit the [SoM Internship for Credit request form](#);
- if approval is given by the Associate Director for Undergraduate Programs, enroll in METR 3890; and
- satisfactorily complete the requirements set forth by the instructor of the course in the time agreed upon. Typically, the Associate Director for Undergraduate Programs will act as the instructor for this course.

Approval must be given before the internship begins, so make sure to take these steps in a timely way.

METR 3890 is S-U graded, meaning Satisfactory–Unsatisfactory. To receive a satisfactory grade and academic credit for your internship:

- You are required to submit one paragraph long weekly reports to document your progress in the internship to the course instructor.
- At the end of the internship, you must submit a 3–4 page report to the course instructor that includes:
 - the nature and scope of the work you performed;
 - what you learned and how it relates to your education at OU; and
 - how the internship experience has affected your career plans.
- The instructor also will request that your internship supervisor provide a written evaluation of your job performance at the completion of the internship.

12.2. Finding an Internship

Institutions and companies send listings to OU that are distributed among the students: Students should carefully read the CAGS Monday Memo email and emails from coordinators to see these listings (see also [Section 12.3](#) for student employment). Students can find internship resources on OU's [Career Center website](#), the [CAGS Job Board](#), the [AMS Intern Board](#), and job boards from other institutions and organizations. Students also may seek internships directly with a company or business.

Some national internship programs are listed below, but many other internships exist, such as those through local television stations for broadcast meteorologists.

- [William M. Lapenta NOAA Student Internship Program](#)
- Department of Energy [Science Undergraduate Laboratory Internships](#)
- National Aeronautics and Space Administration (NASA) [Student Airborne Research Program](#)
- [NASA Internships Programs](#), including Office of STEM Engagement and NASA Pathways internships
- NASA [Jet Propulsion Laboratory internships](#)
- [NSF REU](#): Summer research opportunities for undergraduate students at various national and international institutions
- [NSF SOARS](#): Summer research opportunity at the National Center for Atmospheric Research in Boulder, CO or other sponsoring laboratories
- [NOAA Ernest F. Hollings Undergraduate Scholarship](#): Two years of academic assistance and a summer internship at a NOAA facility
- [Pathways Programs](#), which can include internships at NOAA facilities

12.3. Student Employment

Undergraduates can find student jobs in meteorology and related fields with the various entities in the NWC and on the OU campus, as well as with private sector companies on OU's Research Campus and throughout the Oklahoma City metropolitan area. The experience and broad range of skills developed by these opportunities make students more competitive when applying for employment after graduation. The [Cooperative Institute for Severe and High-Impact Weather Research and Operations](#) (CIWRO), the [Oklahoma Climatological Survey](#) (OCS), the [Oklahoma Mesonet](#), the [SPC](#), and others have employed Meteorology undergraduates. Some faculty also employ undergraduates within their research groups.

Students should watch for job announcements in departmental emails and the CAGS Monday Memo email as well as on TV screens around the NWC. Students are also encouraged to use jobs.ou.edu.

12.4. Research and Academic Credit

Undergraduate students have multiple opportunities to participate in research with SoM faculty.

Honors Students: Students in OU's [Honors College](#) can conduct research under the supervision of a SoM faculty or adjunct faculty member. The result of this research typically becomes the student's Honors Thesis. To conduct Honors Research and receive appropriate academic credit, students must find a faculty member willing to supervise them and submit the [Honors Research Form](#) to the Honors College to enroll in the section of METR 3980 associated with that faculty member. (If a section associated with that faculty member does not exist, they must contact the SoM Honors Coordinator prior to submitting the form, request a section be opened, and obtain the section number.) The Honors Research Form must be signed by the student, the faculty member serving as research supervisor, and the SoM Honors Coordinator. This form serves as an agreement between the student and the faculty member that describes the expectations for the research and grading procedure.

Students who are employed in an undergraduate research position cannot be paid for their research work if they are using it for their Honors Research in the semester that they are enrolled in METR 3980.

Meteorology majors can undertake Honors Research outside of SoM: In this case, no permissions from SoM are required.

Other research opportunities for Honors College students include:

- [Honors Research Assistant Program](#)
- [First Year Research Experiences](#)

SoM Honors College Coordinator: Amanda Kis (akkis@ou.edu)

Undergraduate Research Opportunities: Students can receive funding for student-driven research via the [Undergraduate Research Opportunities Program](#), typically with two deadlines per year in September and February. Other undergraduate research opportunities exist, such as through the [Office of Undergraduate Research and Creative Activity](#) (URCA), which has various funding and presentation opportunities like the First Generation URCA Fellowship that is encouraged for students who have not conducted research before, Summer URCA Fellowships, and Undergraduate Research Day.

Undergraduate Research for Credit in SoM: Students conducting research with SoM faculty or adjunct or affiliate faculty members can receive academic credit by enrolling in the METR 4990 section associated with the faculty member. Prior to enrolling, and to receive enrollment permissions, both the student and the faculty member serving as their research supervisor must confirm participation with the SoM Academic Advisor via email (see [Section 7.1](#) for contact information). SoM encourages all faculty to pay students conducting undergraduate research.

13. Careers

Meteorology blends mathematics, physics, chemistry, and computer science to provide a theoretical and applied framework for understanding and predicting the complexities of the atmosphere. SoM's undergraduate program prepares students for the pursuit of a broad range of careers in areas such as operational forecasting, climatology, environmental science, remote sensing, engineering, emergency management, aviation and aerospace, energy, and related fields.

Meteorology jobs generally fall into one of three categories: public sector (government), private sector, and academia. Some examples of jobs in each of these categories are as follows.

- **Public sector:** Operational meteorologist at the NWS, military (e.g., Air Force) weather officer or forecaster, city or county emergency manager, government agricultural meteorologist, government air quality scientist, state climatologist, etc.
- **Private Sector:** Broadcast meteorologist at a television station, meteorologist or climate scientist at energy and insurance/re-insurance companies, aviation meteorologist for passenger and cargo airlines, shipping or land transportation forecaster, instrument or technology developer, forensic meteorologist, etc.
- **Academia:** Teacher, research scientist, faculty member, STEM librarian, etc.

The AMS has an excellent [Careers resource](#) where students can view career profiles of a wide variety of professionals, and it provides an array of additional resources. The American Geosciences Institute also has created a [Career Compass for Atmospheric Sciences](#) that provides options, tips, suggestions, and strategies for how a student can obtain critical skills, experiences, and competencies to launch their career.

Although numbers vary year to year based on student interests and job availability, approximately 35–40% of our students go on to graduate schools in various disciplines, 25–45% to private sector positions, 10–15% to non-military public sector positions, 5–10% to television broadcast meteorologist positions, and 2–5% to the military.

Students pursuing a degree in Meteorology should make use of OU's excellent [Career Center](#), which can be found on the 3rd floor of the Oklahoma Memorial Union. There also are career fairs put on by CAGS, AMS, NWA, and AGU. It is important that students prepare for career fairs and other opportunities adequately. OU has resources to assist students: Please contact the SoM academic advisor for more information.

Numerous resources exist for job search. In addition to those listed in [Section 12](#) for internships, the following websites may be useful:

- [USAJobs](#) – all federal opportunities (e.g., NOAA, NWS)
- [NASA Job Opportunities](#)
- [EPA Careers and Internships](#)
- [AMS Career Center job listings](#) (membership and login required)
- [NWA Job Board](#) (membership and login required)
- [AGU job listings](#)
- European Meteorological Society [list of employment pages](#)
- [LinkedIn](#)
- [Guide to Green Careers](#)
- [EcoJobs Green Environmental Jobs](#)
- [Dayaway Careers Clean Energy Jobs](#)

14. Resources for Student Success

14.1. NWC Library

The [NWC Library](#) is located on the 4th floor of the NWC. There is space available for studying and meeting, including a reservable meeting room, computer workstations, and books and other materials selected to support your studies in meteorology and geography. The NWC Library is a branch of [OU Libraries](#), so all OU Libraries materials are also available, including online journals, e-books, and even physical items that can be delivered to the NWC Library for you to pick up. Library staff are trained to help you locate resources, and the NWC Librarian is available for one-on-one or small group consultations if you have in-depth questions like “How do I choose a topic for my research paper?” or “What resources are available for learning about wildfires?” The NWC Library and OU Libraries have many more services and resources available to support your education and research (check out [their workshops](#)). Please reach out (nwclibrary@ou.edu) or visit!

The NWC Library serves as an OU ADRC accommodation testing location ([Section 4.1](#)).

14.2. Academic Support

The following resources are available for free to OU students.

- The [Math Center](#) offers drop-in tutoring for many 1000–3000 level OU Math courses as well as space to study math, for students who are enrolled in an appropriate MATH course.
- The [Writing Center](#) supports all writers in the OU community. Their consultants assist students and faculty across campus with all types of writing projects at any stage in the writing process.
- CHEM 1315 teaching assistants offer office hours in the Chemistry Help Lab, and students can get help from any teaching assistant in the Help Lab. See the Canvas course for your lab section of CHEM 1315 for details.
- The [Student Learning Center](#) is a division of the [Academic Success Center](#) that offers drop-in tutoring for over 100 OU courses in faculty-led (“Action Center”) and peer-led study (“Action Tutoring” and “Supplemental Instruction”) sessions. Individual and small group tutoring appointments, study nights, and study skills consultations also are available.
- The [Engineering Learning Center](#) offers peer-led tutoring for several math, physics, chemistry, and computer science courses that Meteorology students take.
- [University Libraries](#) provides services like textbook lending, study room reservation, database and journal access, workshops, consultations and office hours with librarians and library staff, tutorials, research guides, and much more.

14.3. Further Resources

Additional resources can be found in [Section 4](#). Listed below are further OU resources that should be explored by students. This list should not be considered comprehensive.

- [Goddard Health Services](#) is OU’s on-campus health clinic. Please refer to their website for information on scheduling appointments, clinic hours, and financial information.
- [University Counseling Center](#) (UCC) provides services to students, faculty, and staff. Counselors help people resolve existing challenges, prevent potential issues and crises, and develop new skills that will enhance their lives. A broad range of services in a

variety of formats is offered. UCC is staffed by professional psychologists and counselors, as well as advanced graduate students under supervision.

- People who are lactating are welcome to utilize [lactation rooms on campus](#) for expressing breast milk or for nursing their child in a quiet, comfortable atmosphere. The rooms feature a pumping workstation, comfortable chair, and basic amenities (amenities vary by room). NWC 1110 is a [private office available in the NWC](#) that can be used for lactation purposes.
- [OU Food Pantry](#) contributes to the overall health and wellness of the OU campus community by providing free supplemental food assistance and other resources to OU students, faculty and staff.
- [Veteran Student Services](#) assists veteran students with using Veterans Affairs (VA) benefits, searching for military scholarships, and finding veteran community on campus.
- [International Student Services](#) provides information and support for all international students.

The [AMS](#), [NWA](#), and [AGU](#) provide additional resources, support, and opportunities for students.

15. NWC, CAGS, and SoM Administration

15.1. National Weather Center

CAGS and SoM are housed in the [NWC](#) along with research and government facilities like [CIWRO](#), the [National Severe Storms Laboratory](#), the [NWS Norman Forecast Office](#), [OCS](#), the [Oklahoma Mesonet](#), the [South Central Climate Adaptation Science Center](#), and the [SPC](#).

Due to the collocation of academic and government facilities in the NWC, everyone entering the building is required to display an approved ID (OU Sooner Card/NOAA/Research Campus/NWC Security issued) while in public areas of the NWC. Only those with approved access are allowed entry between 7 p.m. and 7 a.m.

After your freshmen year, students in CAGS have NWC access 24 hours a day (one needs to swipe their ID card to get into the building after 7 p.m.). Freshmen will not have 24-hour access unless they become active in SoM student organizations (see [Section 9](#)).

15.2. College of Atmospheric and Geographic Sciences

The mission of [CAGS](#) is to inspire and prepare individuals for rewarding careers that advance the understanding and responsible stewardship of the land, water, and sky, promoting a more resilient and flourishing future for our dynamic world.

The [CAGS staff website](#) provides contact information for the Dean's Office staff. The AGS Dean's Suite houses knowledgeable members of the College who can help students with issues such as Sooner card access, academic contracts, graduation checks, and more. They are located on the 3rd floor of the NWC in Suite 3630.

Certain documentation and procedures are handled through the Dean's Office: These include documentation that requires College-level advisor signature. Some examples of documentation and procedures handled by the College are (this list is not comprehensive):

- GI Bill and VA forms
- Second bachelor's degrees
- Flat-rate tuition exemptions
- Academic contracts
- Degree checks

15.3. School of Meteorology

The mission of [SoM](#) is to provide a world-class academic experience that promotes collaborative, innovative, and inclusive education and research opportunities in the atmospheric sciences with a positive impact on Oklahoma, the nation, and the world.

15.3.1. SoM Directors

- Dr. Cameron Homeyer (chomeyer@ou.edu) serves as the Director of the School of Meteorology.
- Dr. Amanda Kis (akkis@ou.edu) serves as the Associate Director for Undergraduate Programs.

- Dr. Scott Salesky (salesky@ou.edu) serves as the Associate Director for Graduate Programs.

15.3.2. SoM Staff

The SoM front office is located on the 5th floor of the NWC in Suite 5900. The staff in the front office can help students with issues that arise, whether that means aiding in-house or referring a student to the proper resource. See the [SoM staff website](#) for contact information.

Elizabeth Lund (elund@ou.edu) is the Undergraduate Academic Advisor and the main point of contact for students with questions related to the SoM undergraduate program. She is available to meet with students to work through academic, financial, personal, and other issues. Students can schedule an appointment with her via [iAdvise](#).

15.3.3. SoM Undergraduate Studies Committee

Any revisions to the SoM undergraduate curriculum are handled by SoM's Undergraduate Studies Committee (UGSC). UGSC also oversees keeping this Undergraduate Handbook up-to-date and serves a point of contact for students who have concerns about or suggestions for future improvements to the SoM undergraduate curriculum and SoM policies for the undergraduate program as described in this document. UGSC consists of five voting members (faculty members and instructors) and three non-voting members:

Voting Members (as of Fall 2026):

- Amanda Kis: Lecturer, akkis@ou.edu
- Naoko Sakaeda: Associate Professor, nsakaeda@ou.edu
- Stacey Hitchcock: Assistant Professor, stacey.hitchcock@ou.edu
- Greg McFarquhar: Professor and Director of CIWRO, mcfarq@ou.edu
- A fifth voting member and the Chair are to-be-determined at the time of publication

Non-Voting Members:

- Elizabeth Lund: Undergraduate Academic Advisor, elund@ou.edu
- Shawn Riley: Computing Systems Coordinator, rileysp@ou.edu
- Student Member: SAC student representative

Appendix 1: Acronyms and Abbreviations

- ADGCP: Accelerated Degree Graduate Coursework Plan
- ADRC: OU Accessibility and Disability Resource Center
- AGSC: OU College of Atmospheric and Geographic Sciences course code abbreviation
- AGU: American Geophysical Union
- AMS: American Meteorological Society
- AP: Advanced Placement
- CAGS: OU College of Atmospheric and Geographic Sciences
- CASH: OU Centralized Academic Scholarship Hub
- CHEM: OU Chemistry course code abbreviation
- CIWRO: Cooperative Institute for Severe and High-Impact Weather Research and Operations
- CLEP: College Level Examination Program
- C S: OU Computer Science course code abbreviation
- DGES: OU Department of Geography and Environmental Sustainability
- DoW: Department of War
- FAFSA: Free Application for Federal Student Aid
- GMAT: Graduate Management Admission Test
- GPA: Grade point average
- GRE: Graduate Record Examination
- GSIS: Geoscience Information Society
- HIST: OU History course code abbreviation
- HOOT: Hub of OWL Operational Technology
- IB: International Baccalaureate
- ISE: OU Industrial and Systems Engineering course code abbreviation
- IT: Information technology
- MATH: OU Mathematics course code abbreviation
- MBA: Master of Business Administration
- METR: OU Meteorology course code abbreviation
- NASA: National Aeronautics and Space Administration
- NOAA: National Ocean and Atmospheric Administration
- NSF: National Science Foundation
- NWA: National Weather Association
- NWAF: National Weather Association Foundation
- NWC: National Weather Center
- NWS: National Weather Service
- OCS: Oklahoma Climatological Survey
- OU: University of Oklahoma
- OUPD: OU Police Department
- OWL: OU SoM Oklahoma Weather Lab
- PHYS: OU Physics course code abbreviation
- P SC: OU Political Science course code abbreviation
- REU: Research Experiences for Undergraduates Program
- SAC: OU SoM Student Affairs Committee
- SCAN: OU Student Chapter of the American Meteorological Society and National Weather Association
- SFC: OU Student Financial Center

- SoA: OU School of Aviation
- SOARS: Significant Opportunities in Atmospheric Research and Science
- SoM: OU School of Meteorology
- SoMO: OU SoM Outreach
- SPC: Storm Prediction Center
- STEM: Science, technology, engineering, and mathematics
- UCC: University Counseling Center
- UGSC: OU SoM Undergraduate Studies Committee
- UReCA: Office of Undergraduate Research and Creative Activity
- VA: Veterans Affairs
- WATW: Work Assistance Tuition Waiver