ATMOSPHERIC AND OCEANIC SCIENCES, BS

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

HOW TO GET IN

HOW TO GET IN

There are no admissions requirements for the major. Students wishing to declare the Atmospheric & Oceanic Sciences major should meet with the Undergraduate Academic Advising Manager listed in the Contact Box on the right sidebar of this page.

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (http://guide.wisc.edu/undergraduate/ #requirementsforundergraduatestudytext) section of the Guide.

General Education

- Breadth-Humanities/Literature/Arts: 6 credits
- Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth-Social Studies: 3 credits
- Communication Part A & Part B *
- Ethnic Studies *
- Quantitative Reasoning Part A & Part B *

* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B. Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

COLLEGE OF LETTERS **& SCIENCE DEGREE REQUIREMENTS: BACHELOR OF** SCIENCE (BS)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Language	Complete the third unit of a language other than English.
L&S Breadth	Complete: • 12 credits of Humanities, which must include at least 6 credits of Literature; and • 12 credits of Social Science; and • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/ Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: • 30 credits in residence, overall, and • 30 credits in residence after the 86th credit.
Quality of Work	2.000 in all coursework at UW–Madison 2.000 in Intermediate/Advanced level coursework at UW–Madison

NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
Calculus (complete	all):	
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	CalculusFunctions of Several Variables	4
Physics (complete o	one course from each group):	
PHYSICS 207	General Physics	5
or PHYSICS 201	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 208	General Physics	5
or PHYSICS 202	General Physics	
or PHYSICS 248	A Modern Introduction to Physics	
Computer Sciences	(complete one):	3
COMP SCI 220	Data Science Programming I	
COMP SCI 310	Problem Solving Using Computers	
COMP SCI 320	Data Science Programming II	
COMP SCI/	Machine Organization and	
ECE 354	Programming	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
Total Credits		26
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Codo	Titlo	Crodito
Code	Title	Credits
Code Core Sequence (con	Title nplete all):	Credits
Code Core Sequence (con ATM OCN 310	Title nplete all): Dynamics of the Atmosphere and Ocean I	Credits 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311	Title nplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II	Credits 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330	Title nplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I	Credits 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340	Title mplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I	Credits 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys	Title mplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean II	Credits 3 3 3 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys COMP SCI 412	Title nplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I Sis (complete one): Introduction to Numerical Methods	Credits 3 3 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys COMP SCI 412 COMP SCI/ MATH/STAT 475	Title hplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean II	Credits 3 3 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys COMP SCI 412 COMP SCI 412 COMP SCI/ MATH/STAT 475 COMP SCI/ MATH 514	Title mplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean I Introduction to Numerical Methods Introduction to Numerical Methods Introduction to Combinatorics	Credits 3 3 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys COMP SCI 412 COMP SCI/ MATH/STAT 475 COMP SCI/ MATH 514 COMP SCI/I SY E/ MATH/STAT 525	Titlemplete all):Dynamics of the Atmosphere and Ocean IDynamics of the Atmosphere and Ocean IIPhysics of the Atmosphere and Ocean IPhysics of the Atmosphere and Ocean IPhysics of the Atmosphere and Ocean IIPhysics of the Atmosphere and Ocean IIIntroduction to Numerical Methods Introduction to CombinatoricsNumerical AnalysisLinear Optimization	Credits 3 3 3 3 3 3
Code Core Sequence (con ATM OCN 310 ATM OCN 311 ATM OCN 330 ATM OCN 340 Quantitative Analys COMP SCI 412 COMP SCI 412 COMP SCI/ MATH/STAT 475 COMP SCI/ MATH 514 COMP SCI/I SY E/ MATH/STAT 525 MATH/STAT 309	Title hplete all): Dynamics of the Atmosphere and Ocean I Dynamics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean I Physics of the Atmosphere and Ocean II Physics of the Atmosphere and Ocean II Introduction to Numerical Methods Introduction to Combinatorics Linear Optimization Introduction to Probability and Mathematical Statistics I	Credits 3 3 3 3 4 3 4 3 3 3

MATH 319	Techniques in Ordinary Differential Equations
MATH 320	Linear Algebra and Differential Equations
MATH 321	Applied Mathematical Analysis
MATH 322	Applied Mathematical Analysis
MATH 331	Introductory Probability
MATH 340	Elementary Matrix and Linear Algebra
MATH 341	Linear Algebra
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra
MATH 376	Topics in Multi-Variable Calculus and Differential Equations
MATH 407	Topics in Mathematics Study Abroad
MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH 421	The Theory of Single Variable Calculus
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
MATH/STAT 431	Introduction to the Theory of Probability
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography
MATH 441	
MATH 443	Applied Linear Algebra
MATH 443 MATH 461	Applied Linear Algebra College Geometry I
MATH 443 MATH 461 MATH 467	Applied Linear Algebra College Geometry I Introduction to Number Theory
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490 MATH 491	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490 MATH 491 MATH/ COMP SCI 513	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics Numerical Linear Algebra
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI 473 MATH 490 MATH 490 MATH 491 MATH/ COMP SCI 513 MATH/ COMP SCI 513	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics Numerical Linear Algebra
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490 MATH 491 MATH 491 MATH/ COMP SCI 513 MATH/ COMP SCI 514 MATH/ STAT 519	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics Numerical Linear Algebra Numerical Analysis Ordinary Differential Equations
MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490 MATH 491 MATH 491 MATH/ COMP SCI 513 MATH/ COMP SCI 514 MATH/ STAT 519 MATH 521	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics Numerical Linear Algebra Numerical Analysis Ordinary Differential Equations Analysis I
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 MATH 443 MATH 461 MATH 467 MATH/ CURRIC 471 MATH/ HIST SCI 473 MATH/ COMP SCI/ STAT 475 MATH 490 MATH 490 MATH 491 MATH 501 MATH/ COMP SCI 513 MATH/ COMP SCI 514 MATH 519 MATH 519 MATH 521 MATH 531 MATH 535 MATH 540 	Applied Linear Algebra College Geometry I Introduction to Number Theory Mathematics for Secondary School Teachers History of Mathematics Introduction to Combinatorics Undergraduate Seminar Topics in Undergraduate Mathematics Numerical Linear Algebra Numerical Analysis Ordinary Differential Equations Analysis I Analysis II Linear Optimization Probability Theory Mathematical Methods in Data Science Linear Algebra II

MATH 542	Modern Algebra	STAT/COMP SCI/	Linear Optimization	
MATH 551	Elementary Topology	ISY E/MATH 525		
MATH 552	Elementary Geometric and	STAT/B M I 541	Introduction to Biostatistics	
	Algebraic Topology	STAT/B M I 542	Introduction to Clinical Trials I	
MATH 561	Differential Geometry	STAT/	Statistical Methods for Bioscience I	
MAIH 567	Modern Number Theory	FAW ECOL 5/1	Statistical Matheda for Disseignes II	
MATH 570	Fundamentals of Set Theory	F&W FCOL 572	Statistical Methods for Dioscience II	
MATH/	Mathematical Logic	STAT 575	Statistical Methods for Spatial Data	
PHILOS 571		STAT 601	Statistical Methods I	
MATH 605	Tanica in Mathematica Study Abused	STAT 602	Statistical Methods I	
MATH 607	Topics in Mathematics Study Abroad	STAT 605	Data Science Computing Project	
	Mathematical Methods for Systems	STAT 609	Mathematical Statistics I	
BMOLCHEM 609	l	STAT 610	Introduction to Statistical Informaco	
MATH 619	Analysis of Partial Differential	STAT 615	Statistical Loarning	
	Equations	STAT 627	Professional Skills in Data Science	
MATH 621	Introduction to Manifolds	STAT 629	Pata Science Practicum	
MATH 623	Complex Analysis	STATUSVE/		
MATH 627	Introduction to Fourier Analysis	MATH/OTM 632	Processes	
MATH 629	Introduction to Measure and	STAT/B M L 641	Statistical Methods for Clinical Trials	
	Integration	STAT/B M L 642	Statistical Methods for	
MATH/I SY E/	Introduction to Stochastic	51/ (j B M 1 0 12	Epidemiology	
OTM/STAT 632	Processes	STAT 679	Special Topics in Statistics	
STAT/MATH 309	Introduction to Probability and	STAT 681	Senior Honors Thesis	
	Mathematical Statistics I	STAT 682	Senior Honors Thesis	
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	Capstone		
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STAT 311	Introduction to Theory and Methods	ATM OCH 405	AOS Senior Capstone Seminar	
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STAT 311 STAT 312 STAT 324 STAT 333	Introduction to Theory and Methods of Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics II Introductory Applied Statistics for Engineers Applied Regression Analysis	Electives ATM OCN 401 ATM OCN 404 ATM OCN 404 ATM OCN 425 ATM OCN 441 ATM OCN 452	Topics in Meteorology Meteorological Measurements Global Climate Processes Radar and Satellite Meteorology Synoptic Laboratory I: The Frontal	11
STAT 311 STAT 312 STAT 324 STAT 333 STAT 340	Introduction to Theory and Methods of Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics II Introductory Applied Statistics for Engineers Applied Regression Analysis Data Science Modeling II	Electives ATM OCN 401 ATM OCN 404 ATM OCN 404 ATM OCN 425 ATM OCN 441 ATM OCN 452	Topics in Meteorology Meteorological Measurements Global Climate Processes Radar and Satellite Meteorology Synoptic Laboratory I: The Frontal Cyclone	11
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STAT 311 STAT 312 STAT 324 STAT 323 STAT 340 STAT 349 STAT 351 STAT 360	Introduction to Theory and Methods of Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics II Introductory Applied Statistics for Engineers Applied Regression Analysis Data Science Modeling II Introduction to Time Series Introductory Nonparametric Statistics Topics in Statistics Study Abroad	Electives ATM OCN 401 ATM OCN 401 ATM OCN 404 ATM OCN 425 ATM OCN 425 ATM OCN 452 ATM OCN 453 ATM OCN/ ENVIR ST 520 ATM OCN 522	Topics in Meteorology Meteorological Measurements Global Climate Processes Radar and Satellite Meteorology Synoptic Laboratory I: The Frontal Cyclone Synoptic Laboratory II: Mesoscale Meteorology Bioclimatology	11
STAT 311 STAT 312 STAT 324 STAT 323 STAT 340 STAT 349 STAT 351 STAT 360 STAT 371	Introduction to Theory and Methods of Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics II Introductory Applied Statistics for Engineers Applied Regression Analysis Data Science Modeling II Introduction to Time Series Introductory Nonparametric Statistics Topics in Statistics Study Abroad Introductory Applied Statistics for the Life Science	Electives ATM OCN 401 ATM OCN 401 ATM OCN 404 ATM OCN 425 ATM OCN 425 ATM OCN 452 ATM OCN 453 ATM OCN 453 ATM OCN/ ENVIR ST 520 ATM OCN 522 ATM OCN 6	Topics in Meteorology Meteorological Measurements Global Climate Processes Radar and Satellite Meteorology Synoptic Laboratory I: The Frontal Cyclone Synoptic Laboratory II: Mesoscale Meteorology Bioclimatology Tropical Meteorology Environmental Biophysics	11
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STAT 311 STAT 312 STAT 324 STAT 324 STAT 333 STAT 340 STAT 349 STAT 351 STAT 351 STAT 351 STAT 351 STAT 371 STAT 411 STAT 411 STAT 421 STAT 421 STAT/M E 424 STAT/M E 424	Introduction to Theory and Methods of Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics II Introductory Applied Statistics for Engineers Applied Regression Analysis Data Science Modeling II Introduction to Time Series Introductory Nonparametric Statistics Topics in Statistics Study Abroad Introductory Applied Statistics for the Life Sciences An Introduction to Sample Survey Theory and Methods Applied Categorical Data Analysis Statistical Experimental Design Introduction to the Theory of	Electives ATM OCN 401 ATM OCN 401 ATM OCN 404 ATM OCN 425 ATM OCN 425 ATM OCN 452 ATM OCN 453 ATM OCN 453 ATM OCN/ ENVIR ST 520 ATM OCN/ AGRONOMY/ SOIL SCI 532 ATM OCN 535 ATM OCN 573	ACS Senior Capstone Seminal Topics in Meteorology Meteorological Measurements Global Climate Processes Radar and Satellite Meteorology Synoptic Laboratory I: The Frontal Cyclone Synoptic Laboratory II: Mesoscale Meteorology Bioclimatology Tropical Meteorology Environmental Biophysics Computational Methods in Atmospheric and Oceanic Sciences	11
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Т	otal Credits		27
	ATM OCN 699	Directed Study ²	
	ATM OCN 698	Directed Study ²	
	ATM OCN 692	Senior Thesis	
	ATM OCN 691	Senior Thesis	
	ATM OCN 682	Senior Honors Thesis	
	ATM OCN 681	Senior Honors Thesis	
	ATM OCN 660	Introduction to Physical Oceanography	
	ATM OCN 651		
	ATM OCN 640	Radiation in the Atmosphere and Ocean	

Total Credits

RESIDENCE AND QUALITY OF WORK

- · 2.000 GPA in all ATM OCN and major courses
- 2.000 GPA on 15 upper-level credits in the major, taken in Residence.³
- 15 credits in ATM OCN, taken on campus

HONORS IN THE MAJOR

Students may declare Honors in the Atmospheric and Oceanic Sciences Major in consultation with the Atmospheric and Oceanic Sciences undergraduate advisor.

REQUIREMENTS

To earn Honors in the Major in Atmospheric and Oceanic Sciences, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all ATM OCN courses, and all courses accepted in the major
- · Complete the following additional coursework: • ATM OCN 610 or ATM OCN 611 and
 - ATM OCN 681 and ATM OCN 682 for a total of 6 credits

FOOTNOTES

- Note that core sequence begins in the fall semester only.
- $^{2}\,$ A maximum 2 credits of Electives may come from Internship or Directed Study courses.
- ³ ATM OCN 300 through ATM OCN 699 are upper-level in the major.

UNIVERSITY DEGREE REQUIREMENTS

Total Degree To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

LEARNING OUTCOMES

LEARNING OUTCOMES

- 1. Recognize and describe the fundamental principles and processes associated with the dynamics and thermodynamics of geophysical fluid flows, the basic physics of clouds, aerosols, and precipitation.
- 2. Recognize and describe the fundamental principles and processes associated with radiation and atmospheric and oceanic radiative transfer.
- 3. Demonstrate critical thinking skills by identifying a problem, identifying the required information to solve that problem; and formulating and interpreting solutions to that problem using appropriate analytical and/or computational techniques.
- 4. Apply diagnostic tools to to analyses and numerical model output to diagnose, describe, and interpret the fundamental dynamical and thermodynamical processes at work in synoptic-scale, mesoscale, and large-scale weather systems and climate circulations.
- 5. Apply fundamental radiative transfer theory to interpret remotelysensed observations of atmospheric and oceanic phenomena.
- 6. Design and conduct experiments and/or analyze data to test hypotheses in an area of atmospheric or climate sciences.
- 7. Demonstrate effective scientific communication skills through development and delivery of oral presentations (including poster presentations) and written reports and case studies.

FOUR-YEAR PLAN

FOUR-YEAR PLAN

This Four-Year Plan is only one way a student may complete an L&S degree with this major. Many factors can affect student degree planning, including placement scores, credit for transferred courses, credits earned by examination, and individual scholarly interests. In addition, many students have commitments (e.g., athletics, honors, research, student organizations, study abroad, work and volunteer experiences) that necessitate they adjust their plans accordingly. Informed students engage in their own unique Wisconsin Experience by consulting their academic advisors, Guide, DARS, and Course Search & Enroll for assistance making and adjusting their plan.

First Year		
Fall	Credits Spring	Credits
MATH 221 (QR-B)	5 MATH 222	4
ATM OCN 100 or 101	4 ATM OCN/ENVIR ST 171	3
	(Comm B)	

Communication A	3 Literature Breadth	3
Foreign Language	4 Biological Science Breadth	3
	16	13
Second Year		
Fall	Credits Spring	Credits
MATH 234	4 Humanities Breadth	3
PHYSICS 207	5 PHYSICS 208	5
Biological Science Breadth	3 COMP SCI 220	4
Ethnic Studies	4 Social Science Breadth	3
	16	15
Third Year		
Fall	Credits Spring	Credits
ATM OCN 310	3 ATM OCN 311	3
ATM OCN 330	3 ATM OCN 340	3
Literature Breadth	3 Biological Science Breadth	3
ADV MATH/COMP SCI/ STATS	3 Humanities Breadth	3
Social Science Breadth	4 Elective	3
	16	15
Fourth Year		
Fall	Credits Spring	Credits
ATM OCN 400 or higher	3 ATM OCN numbered 400 or higher	3
ATM OCN 400 or higher	4 ATM OCN numbered 400 level or higher	4
Elective	4 ATM OCN 699 (or elective)	3
Social Science Breadth	4 ATM OCN 405	1
	Elective	3
	15	14

Total Credits 120

ADVISING AND CAREERS

ADVISING AND CAREERS GENERAL ADVISING

Any student interested in the Atmospheric and Oceanic Sciences or Environmental Sciences major should meet with the Undergraduate Academic Advising Manager listed in the Contact Box on the right sidebar of this page to discuss steps to complete the necessary prerequisite coursework for the major.

CAREER ADVISING

The Department of Atmospheric and Oceanic Sciences encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (https:// successworks.wisc.edu/) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (https://careers.ls.wisc.edu/)
- Set up a career advising appointment (https://successworks.wisc.edu/ make-an-appointment/)
- Enroll in a Career Course (https://successworks.wisc.edu/careercourses/) - a great idea for first- and second-year students:
 - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
 - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (https:// successworks.wisc.edu/finding-a-job-or-internship/)
 INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (https://successworks.wisc.edu/ handshake/) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (https:// successworks.wisc.edu/about/mission/)

PEOPLE

PEOPLE PROFESSORS

Back, Larissa Desai, Ankur (Chair) Hitchman, Matt Holloway, Tracey L'Ecuyer, Tristan Martin, Jonathan Morgan, Michael (On leave) Pierce, Brad Vimont, Dan

ASSOCIATE PROFESSORS

Adames-Corraliza, Ángel Lang, Andrea Lopez

ASSISTANT PROFESSORS

Henderson, David Henderson, Stephanie Maroon, Elizabeth Oyola-Merced, Mayra Rowe, Angela Wagner, Till 6 Atmospheric and Oceanic Sciences, BS

Zanowski, Hannah