Program Revision Proposal: Changes to an Existing Program

Form 3A

Version 2016-10-13

SUNY approval and SED registration are required for many changes to registered programs. To request a change to a registered program leading to an undergraduate degree, a graduate degree, or a certificate that does not involve the creation of a new program,[1] a Chief Executive or Chief Academic Officer must submit **a signed cover letter and this completed form** to the SUNY Provost at *program.review@suny.edu*.

Section 1. General Information		
a) Institutional Information	Institution's 6-digit SED Code:	**210500**
	Institution's Name:	University at Albany
	Address:	*1400 Washington Avenue, Albany NY 12222*
b) Program Locations	List each campus where the entire program will be offered (with each institutional or branch campus 6-digit SED Code):	
	List the name and address of off-campus locations (i.e., extension sites or extension centers) where courses will offered, **or check here [X] if not applicable**:	
c) Registered Program to be Changed	Program Title:	Atmospheric Science
	SED Program Code	03027
	Award(s) (e.g., A.A., B.S.):	B.S.
	Number of Required Credits:	Minimum [120] If tracks or options, largest minimum [ ]
	HEGIS Code:	1913
	CIP 2010 Code:	40.0401
	Effective Date of Change:	Fall 2021
	Effective Date of Completion[2]	Spring 2025
	Joint Program Codes this Degree updates:	28818, 89227, 82308
d) Campus Contact	Name and title: Kaitlyn Beachner, Staff Associate for Undergraduate Academic Programs Telephone and email: 518-442 -3941 kbeachner@albany.edu	
e) Chief Executive or Chief Academic Officer Approval	**Signature affirms that the proposal has met all applicable campus administrative and shared governance procedures for consultation, and the institution's commitment to support the proposed program. *E-signatures are acceptable.*** Name and title: : Carol Kim, Ph.D., Senior Vice President for Academic Affairs & Provost Signature and date: 07/21/2021	
	If the program will be registered jointly[3] with one or more other institutions, provide the following information for <u>each</u> institution:	
	Partner institution's name and 6-digit SED Code: Albany Law School, 402000 Name, title, and signature of partner institution's CEO (or **append** a signed letter indicating approval of this proposal): *Please See Appended Letter*	

[1] To propose changes that would create a new program, Form 3B, Creating a New Program from Existing Program(s), is required.

[2] If the current program(s) must remain registered until enrolled students have graduated, the anticipated effective date by which continuing students will have completed the current version of the program(s).

[3] If the partner institution is non-degree-granting, see SED's CEO Memo 94-04.

Section 2. Program Information

Section 2.1. Changes in Program Content

[ ] No changes in program content. *Proceed to Section 2.2.*

a) Check all that apply. Describe each proposed change and why it is proposed.

[X]Cumulative change from SED's last approval of the registered program of one-third or more of the minimum credits required for the award (e.g., 20 credits for associate degree programs, 40 credits for bachelor's degree programs)
[ ] Changes in a program's focus or design
[ ] Adding or eliminating one or more options, concentrations or tracks
[ ] Eliminating a requirement for program completion (such as an internship, clinical placement, cooperative education, or other work or field-based experience). Adding such requirements must remain in compliance with SUNY credit cap limits.
[ ] Altering the liberal arts and science content in a way that changes the degree classification of an undergraduate program, as defined in Section 3.47(c)(1-4) of Regents Rules

Description: Changes to the program are to ensure that the program is more holistic to the discipline and that the program is a more rigorous educational experience to better prepare students for careers in the field.

b) Provide a side-by-side comparison of all the courses in the existing and proposed revised program that clearly indicates all new or significantly revised courses, and other changes.

1990 Atmospheric Science B.S. Requirements:	**2021 Proposed Changes to Atmospheric Science B.S. Requirements:**	
54 credits, combined major and minor sequence:	***70 credits, combined major and minor sequence:***	
Core:	*Core:*	
	AATM 209 – Weather Workshop (1)	
ATM 210Z – Atmospheric Structure (3)	AATM 210 – Atmospheric Structure, Thermodynamics, and Circulation (3)	
	AATM 211 – Weather Analysis and Forecasting (4)	
	AATM 315 – Environmental Statistics and Computation (4)	
ATM 310 – Dynamic Meteorology I (3)	AATM 316 – Dynamic Meteorology I (3)	
ATM 420 – Dynamic Meteorology II (3)	AATM 317 – Dynamic Meteorology II (3)	
ATM 320 – Atmospheric Thermodynamics (3)	AATM 320 – Atmospheric Thermodynamics (3)	
ATM 321 – Physical Meteorology (4)	AATM 321Y – Physical Meteorology (4)	
	AATM 350 – Meteorological Data Analysis and Visualization (2)	
ATM 400 – Synoptic Meteorology I (3)	*Elective option in 2021*	
	AATM 419 – Applications of Numerical Weather Prediction (3)	
Required Cognate Courses:	***Required Cognate Courses:***	
CHM 120N – General Chemistry 1 (3)	*Select one*	ACHM 120 – General Chemistry I (3)
		TCHM 130 – Advanced General Chemistry I Honors (3)
CHM 121N – General Chemistry II (3)	*Removed Requirement*	
CHM 122A and B – General Chemistry Lab (1,1)	*Removed Requirement*	
MAT 112Y – Calculus I (4)	*Select one*	AMAT 112 – Calculus I (4)
		TMAT 118 – Honors Calculus I (4)
MAT 113Y – Calculus II (4)	*Select one*	AMAT 113 – Calculus II (4)
		TMAT 119 – Honors Calculus II (4)
MAT 214 – Calculus of Several Variables (4)	AMAT 214 – Calculus of Several Variables (4)	
MAT 311 – Ordinary Differential Equations (3)	AMAT 311 – Ordinary Differential Equations (3)	
PHY 120N – Introductory Physics I (4)	*Select one*	APHY 140 – Physics I: Mechanics (3)
		TPHY141 – Honors Physics I Mechanics (3)
PHY 221 – Introductory Physics Lab I (1)	APHY 145 – Physics Lab (1)	
PHY 124N – Introductory Physics II (4)	*Select one*	APHY 150 – Physics II: Electromagnetism (3)
		TPHY 151 – Honors Physics II: Electromagnetism (4)
PHY 220 – Introductory Physics III (3)	*Removed Requirement*	
4 additional ATM courses at the 400- or 500-level as advised (options below):	***At least 15 additional credits from AATM 301 or higher, excluding AATM 304 (options listed below):***	
	3 credits of the 15 must be from one of these options:	
	Select one:	AATM 311 – Severe and Hazardous Weather and Forecasting (4)
		AATM 405 – Water and Climate Change (3)
	3 credits of the 15 must be from one of these options and AATM 405 can only be taken for credit once.	
	Select one:	AATM 306 – Climate Variability and Change (3)
		AATM 405 – Water and Climate Change (3)
		AATM 415 – Climate Laboratory (3)
		AENV 450 – Paleoclimatology (3)
	Other 9 of the 15 credits may be chosen from options below:	
	AATM 301 – Surface Hydrology and Hydrometeorology (3)	

	AATM 305 -Global Physical Climatology (3)
	AATM 307/Z – Introduction to Atmospheric Chemistry (3)
	AATM 335 – Meteorological Remote Sensing (3)
	AATM 400 – Synoptic Meteorology I (4)
ATM 401 – Synoptic Meteorology II (3)	AATM 401 – Synoptic Meteorology II (3)
	AATM 404 – Oceans and Climate (3)
ATM 407 – Atmospheric Chemistry (4)	*Removed option*
ATM 408 – Hydrometeorology (3)	AATM 408 – Hydrometeorology (3)
	AATM 409 – Atmospheric Precipitation Processes (3)
	AATM 413 – Weather, Climate Change, and Societal Impacts (3)
ATM 414 – Air Pollution (3)	AATM 414- Air Pollution Meteorology (3)
ATM 417 – Physical Limnology and Oceanography (3)	*Removed option*
	AATM 418 – Dynamic Meteorology III (3)
ATM 421 – Instrumentation (2)	AATM 327 – Meteorological and Environmental Measurement (3)
	AATM 421 – Tropical Meteorology (3)
ATM 424 – Fundamentals of Atmospheric Electricity (3)	*Removed option*
	AATM 440 – Applications of Subseasonal to Seasonal Dynamics (3)
ATM 450 – Computer Applications in Atmospheric Science (3)	AATM 450 – Computer Applications in Atmospheric Science (3)
	AATM 480 – Special Topics in Atmospheric Science (1-4)
ATM 490 – Internship in Atmospheric Science (1-3)	AATM 490 – Internship in Atmospheric Science (1-3)
ATM 497 – Independent Study II (1 -3)	AATM 497 – Independent Study II (1-3)
ATM 498 – Computer Applications in Meteorological Research (3)	AATM 498 – Computer Applications in Meteorological Research (3)
ATM 499 – Undergraduate Research (3)	AATM 499 – Undergraduate Research in Atmospheric Science (3)

c) For each new or significantly revised course, **provide** a syllabus at the end of this form, and, on the ***SUNY Faculty Table*** provide the name, qualifications, and relevant experience of the faculty teaching each new or significantly revised course. NOTE: *Syllabi for all courses should be available upon request. Each syllabus should show that all work for credit is college level and of the appropriate rigor. Syllabi generally include a course description, prerequisites and corequisites, the number of lecture and/or other contact hours per week, credits allocated (consistent with SUNY policy on credit/contact hours), general course requirements, and expected student learning outcomes.*

AATM 209 – Weather Workshop (1)
AATM 211 – Weather Analysis and Forecasting (4)
AATM 301 – Surface Hydrology and Hydrometeorology (3)
AATM 304/Z – Air Quality and Air Pollution Policy (3)
AATM 305 -Global Physical Climatology (3)
AATM 306 – Climate Variability and Change (3)
AATM 307/Z – Introduction to Atmospheric Chemistry (3)
AATM 311 – Severe and Hazardous Weather and Forecasting (4)
AATM 315 – Environmental Statistics and Computation (4)
AATM 327 – Meteorological and Environmental Measurement (3)
AATM 335 – Meteorological Remote Sensing (3)
AATM 350 – Meteorological Data Analysis and Visualization (2)
AATM 400 – Synoptic Meteorology I (4)

AATM 405 – Water and Climate Change (3)
AATM 409 – Atmospheric Precipitation Processes (3)
AATM 413 – Weather, Climate Change, and Societal Impacts (3)
AATM 415 – Climate Laboratory (3)
AATM 418 – Dynamic Meteorology III (3)
AATM 419 – Applications of Numerical Weather Prediction (3)
AATM 421 – Tropical Meteorology (3)
AATM 440 – Applications of Subseasonal to Seasonal Dynamics (3)
AATM 480 – Special Topics in Atmospheric Science (1-4)
AENV 450 – Paleoclimatology (3)
TCHM 130 – Advanced General Chemistry I Honors (3)
TMAT 118 – Honors Calculus I (4)
TMAT 119 – Honors Calculus II (4)
TPHY 151 – Honors Physics II: Electromagnetism (4)
TPHY 141 – Honors Physics I Mechanics (3)

d) What are the additional costs of the change, if any? If there are no anticipated costs, explain why.

No additional costs associated with these changes, due to existing faculty having the expertise to teach the new courses being offered and required.

Section 2.2. Other Changes

Check all that apply. Describe each proposed change and why it is proposed.

[ ] Program title
[X]Program award
[X] Mode of delivery

NOTES: *(1) If the change in delivery enables students to complete 50% of more of the program via distance education, submit a Distance Education Format Proposal* as part of this proposal. *(2) If the change involves adding an accelerated version of the program that impacts financial aid eligibility or licensure qualification, SED may register the version as a separate program.*

[ ] Format change(s) (e.g., from full-time to part-time), based on SED definitions, for the **entire** program
1) State proposed format(s) and consider the consequences for financial aid
2) Describe availability of courses and any change in faculty, resources, or support services.

[ ] A change in the total number of credits in a certificate or advanced certificate program
[ ] Any change to a registered licensure-qualifying program, or the addition of licensure qualification to an existing program. **Exception:** Small changes in the required number of credits in a licensure-qualifying program that do not involve a course or courses that satisfy one of the required content areas in the profession.

Section 3. Program Schedule and Curriculum

a) For **undergraduate programs**, complete the ***SUNY Undergraduate Program Schedule*** to show the sequencing and scheduling of courses in the program. If the program has separate tracks or concentrations, complete a ***Program Schedule*** for each one.

NOTES: *The* ***Undergraduate Schedule*** *must show* ***all curricular requirements*** *and demonstrate that the program conforms to SUNY's and SED's policies.*

- *It must show how a student can complete all program requirements within SUNY credit limits, unless a longer period is selected as a format in Item 2.1(c): two years of full-time study (or the equivalent) and 64 credits for an associate degree, or four years of full-time study (or the equivalent) and 126 credits for a bachelor's degree. Bachelor's degree programs should have at least 45 credits of upper division study, with 24 in the major.*
- *It must show how students in A.A., A.S. and bachelor's programs can complete, within the first two years of full-time study (or 60 credits), no fewer than 30 credits in approved SUNY GER courses in the categories of Basic Communication and Mathematics, and in at least 5 of the following 8 categories: Natural Science, Social Science, American History, Western Civilization, Other World Civilizations, Humanities, the Arts and Foreign Languages*
- *It must show how students can complete Liberal Arts and Sciences (LAS) credits appropriate for the degree.*
- *When a SUNY Transfer Path applies to the program, it must show how students can complete the number of SUNY Transfer Path courses shown in the Transfer Path Requirement Summary within the first two years of full-time study (or 60 credits), consistent with SUNY's Student Seamless Transfer policy and MTP 2013-03.*
- *Requests for a program-level waiver of SUNY credit limits, SUNY GER and/or a SUNY Transfer Path require the campus to submit a Waiver Request –with compelling justification(s).*

EXAMPLE FOR ONE TERM: Undergraduate Program Schedule

Term 2: Fall 20xx	Credits per classification						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Prerequisite(s)**
ACC 101 Principles of Accounting	4			4	4		
MAT 111 College Mathematics	3	M	3	3			MAT 110
CMP 101 Introduction to Computers	3						
HUM 110 Speech	3	BC	3			X	
ENG 113 English 102	3	BC	3				
Term credit total:	16	6	9	7	4		

b) *For* ***graduate programs****, complete the* ***SUNY Graduate Program Schedule****. If the program has separate tracks or concentrations, complete a* ***Program Schedule*** *for each one.*

NOTE: *The* ***Graduate Schedule*** *must include all curriculum requirements and demonstrate that expectations from Part 52.2(c)(8) through (10) of the Regulations of the Commissioner of Education are met.*

SUNY Undergraduate Program Schedule (***OPTION: You can paste an Excel version of this schedule AFTER this line, and delete the rest of this page.)***

Program/Track Title and Award:___Atmospheric Science B.S._____

a) Indicate **academic calendar type**: [x] Semester [ ] Quarter [ ] Trimester [ ] Other (describe):

b) **Label each term in sequence**, consistent with the institution's academic calendar (e.g., Fall 1, Spring 1, Fall 2)

c) **Name of SUNY Transfer Path, if one exists: _____ See Transfer Path Requirement Summary for details**

d) Use the table to show **how a typical student may progress through the program**; copy/expand the table as needed. **Complete all columns that apply to a course.**

Term 1:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
APHY140 Physics I Mechanics	3	NS	3	3			AMAT111 or 112 or TMAT118
APHY145 Physics Lab I	1		1	1			APHY140 or 142 or TPHY141
ACHM120 General Chemistry I	3	NS	3	3			none
AMAT112 Calculus I	4	M	4	4			AMAT100 or precalc at HS level
Local General Education – Challenges of the 21st Century	3		3				
Term credit totals:	14	10	14	11			

Term 2:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
APHY150 Physics II Electromagnetism	3	NS	3	3			APHY140 or 142 or TPHY141, AMAT113 or 119
AMAT113 Calculus II	4	M	4	4			AMAT111 or 112
General Education: Social Science	3	SS	3				
General Education: Humanities	3	HU	3				
UUNI110 Writing Critical Inquiry	3	BC	3				
Term credit totals:	16	16	16	7			

Term 3:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
AATM209 Weather Workshop	1			1		X	AATM210
AATM210 Atmospheric Structure Thermodynamics and Circulation	3			3			AMAT110,111,or 112; APHY140 or 142 orTPHY141
AMAT214 Calculus of Several Variables	4		4	4			AMAT113 or 119
General Education: Art	3	AR	3				
General Education: Foreign Language	4	FL	4				
Term credit totals:	15	7	11	8			

Term 4:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
AATM211 Weather Analysis and Forecasting	4			4		X	AATM209, 210 or permission
AATM/AENV315 Environmental Statistics and Computation	4			4		X	AATM210; AMAT11 or 112 or 118
AMAT311 Ordinary Differential Equations	3		3	3			AMAT214
General Education: US History	3	AH	3				
General Education: International Perspective	3	OW	3				
Term credit totals:	17	6	9	11			

Term 5:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
AATM316 Dynamic Meteorology I	3			3			AATM211; APHY150 or 151 or TPHY151; AMAT214; AMAT311
AATM320 Atmospheric Thermodynamics	3			3			AATM3167
AATM Upper Division Elective (1 of 5, Must be either AATM 311 Severe and Hazardous Weather and Forecasting	3			3			

Term 6:	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
AATM317 Dynamic Meteorology I	3			3			AATM316
AATM321Y Physical Meteorology	4			4			AATM320
AATM350 Meteorological Data Analysis and Visualization	2			2		X	AATM211,316

or ATTM 405 Water and Climate Change)																	
AATM Upper Division Elective (2 of 5)	3			3				LAS Elective	3		3				
LAS Elective	3		3					Free Elective	3						
Term credit totals:	15		3	12				Term credit totals:	15		3	9			
Term 7:	See KEY.							**Term 8:**	See KEY.						
Course Number & Title	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**	**Course Number & Title**	**Cr**	**GER**	**LAS**	**Maj**	**TPath**	**New**	**Co/Prerequisites**
AATM Upper Division Elective (4 of 5, AATM 400 recommended)	3			3				AATM419 Applications of Numerical Weather Prediction	3			3		X	AATM317 and 321
AATM Upper Division Elective (4 of 5)	3			3				LAS Elective	3		3				
AATM Upper Division Elective (5 of 5, must be one of AATM 306 Climate Variability and Change OR ATTM 405 Water and Climate Change, OR AATM 415 Climate Laboratory, OR AATM 450 Paleoclimatology)	3			3				Free Elective	3						
LAS Elective	3		3					Free Elective	3						
Free Elective	3							Free Elective	3						
Term credit totals:	15		3	9				Term credit totals:	15		3	3			

Program Totals (in credits):	**Total Credits: 122**	**SUNY GER: 39**	**LAS: 60**	**Major: 70**	**Elective & Other: 27**	**Upper Division:46**	**Upper Division Major:46**	**Number of SUNY GER Categories:**
								9

KEY Cr: credits **GER:** SUNY General Education Requirement (Enter Category Abbreviation) **LAS:** Liberal Arts & Sciences (Enter credits) **Maj:** Major requirement (Enter credits) **TPath:** SUNY Transfer Path Courses (Enter credits) **New:** new course (Enter X) **Co/Prerequisite(s):** list co/prerequisite(s) for the noted courses **Upper Division:** Courses intended primarily for juniors and seniors **SUNY GER Category Abbreviations:** American History (AH), Basic Communication (BC), Foreign Language (FL), Humanities (H), Math (M), Natural Sciences (NS), Other World Civilizations (OW), Social Science (SS), The Arts (AR), Western Civilization (WC)

SUNY Graduate Program Schedule ***OPTION:*** ***You can insert an Excel version of this schedule AFTER this line, and delete the rest of this page.)***

Program/Track Title and Award:_____

a) Indicate **academic calendar** type: [ ] Semester [ ] Quarter [ ] Trimester [ ] Other (describe):

b) **Label each term in sequence**, consistent with the institution's academic calendar (e.g., Fall 1, Spring 1, Fall 2)

c) Use the table to show **how a typical student may progress through the program**; copy/expand the table as needed.

d) Complete the last row to show program totals and comprehensive, culminating elements. **Complete all columns that apply to a course.**

Term 1:				**Term 2:**			
Course Number & Title	**Credits**	**New**	**Co/Prerequisites**	**Course Number & Title**	**Credits**	**New**	**Co/Prerequisites**
Term credit total:				Term credit total:			
Term 3:				**Term 4:**			
Course Number & Title	**Credits**	**New**	**Co/Prerequisites**	**Course Number & Title**	**Credits**	**New**	**Co/Prerequisites**
Term credit total:				Term credit total:			
Term 5:				**Term 6:**			
Course Number & Title	**Credits**	**New**	**Co/Prerequisites**	**Course Number & Title**	**Credits**	**New**	**Co/Prerequisites**
Term credit total:				Term credit total:			
Term 7:				**Term 8:**			
Course Number & Title	**Credits**	**New**	**Co/Prerequisites**	**Course Number & Title**	**Credits**	**New**	**Co/Prerequisites)**
Term credit total:				Term credit total:			

Program Total:	**Total Credits:**	**Identify the required comprehensive, culminating element(s), such as a thesis or examination, including course number(s), if applicable:**

New: X if new course **Prerequisite(s)**: list prerequisite(s) for the listed courses

Section 4. SUNY Faculty Table

a) If applicable, provide information on faculty members who will be teaching new or significantly revised courses in the program. Expand the table as needed.

b) **Append** at the end of this document position descriptions or announcements for each to-be-hired faculty member

(a)	(b)	(c)	(d)	(e)	(f)
Faculty Member Name and Title and/or Rank at the Institution (Include and identify Program Director.)	**% of Time Dedicated to This Program**	**Program Courses Which May Be Taught (Number and Title)**	**Highest and Other Applicable Earned Degrees (include College or University)**	**Discipline(s) of Highest and Other Applicable Earned Degrees**	**Additional Qualifications: List related certifications and licenses and professional experience in field.**
PART 1. Full-Time Faculty					
Kristen Corbosiero, Associate Professor and Graduate Program Director	50	AATM 400 Synoptic Meteorology I, AATM 421 Tropical Meteorology	PhD, University at Albany	Atmospheric Sciences	
Aiguo Dai, Professor	50	AATM 301 Surface Hydrology and Hydrometeorology AATM 405 Water and Climate Change	PhD, Columbia University	Atmospheric Sciences	
Oliver Elison Timm, Associate Professor	50	AATM 306 Climate Variability and Change, AATM 315 Environmental Statistics and Computation, AATM 320 Atmospheric Thermodynamics	PhD, University of Kiel	Atmospheric Sciences	
Robert Fovell, Professor and Undergraduate Program Director	75	AATM 240 Python Programming AATM 316 Dynamic Meteorology I, AATM 320 Atmospheric Thermodynamics, AATM 419 Applications of Numerical Weather Prediction	PhD, University of Illinois	Atmospheric Sciences	
Andrea Lopez Lang, Associate Professor	50	AATM 210 Atmospheric Structure, Thermodynamics, and Circulation AATM 317 Dynamic Meteorology II	PhD, University of Wisconsin	Atmospheric and Oceanic Sciences	

(a)	(b)	(c)	(d)	(e)	(f)
Faculty Member Name and Title and/or Rank at the Institution (Include and identify Program Director.)	**% of Time Dedicated to This Program**	**Program Courses Which May Be Taught (Number and Title)**	**Highest and Other Applicable Earned Degrees (include College or University)**	**Discipline(s) of Highest and Other Applicable Earned Degrees**	**Additional Qualifications: List related certifications and licenses and professional experience in field.**
Ross Lazear, Instructional Support Spec.	100	AATM 209 Weather Workshop AATM 211 Weather Analysis and Forecasting, AATM 311 Severe and Hazardous Weather and Forecasting, AATM 350 Meteorological Data Analysis and Visualization, AATM 480 Special Topics in Atmospheric Science	MS, University of Wisconsin	Atmospheric and Oceanic Sciences	
Jiping Liu, Associate Professor	50	AATM 404 Oceans and Climate	PhD, Columbia University	Atmospheric Science and Physical Oceanography	
Justin Minder, Associate Professor	50	AATM 321Y Physical Meteorology	PhD, University of Washington	Atmospheric Sciences	
Brian Rose, Associate Professor	50	AATM 316 – Dynamic Meteorology I, AATM 415 Climate Laboratory	PhD, Massachusetts Institute of Technology	Climate Physics and Chemistry	
Paul Roundy, Professor	50	AATM 315 Environmental Statistics and Computation, AATM 440 Applications of Subseasonal to Seasonal Dynamics	PhD, Pennsylvania State University	Meteorology and Atmospheric Science	
Brian Tang, Associate Professor	50	AATM 316 Dynamic Meteorology I, AATM 413 Weather, Climate Change and Societal Impacts	PhD, Massachusetts Institute of Technology	Atmospheric Sciences	
Ryan Torn, Professor and Chair	50	AATM 316 Dynamic Meteorology I, AATM 320 Atmospheric Thermodynamics, AATM 418 Dynamic Meteorology III	PhD, University of Washington	Atmospheric Sciences	

(a)	(b)	(c)	(d)	(e)	(f)
Faculty Member Name and Title and/or Rank at the Institution (Include and identify Program Director.)	**% of Time Dedicated to This Program**	**Program Courses Which May Be Taught (Number and Title)**	**Highest and Other Applicable Earned Degrees (include College or University)**	**Discipline(s) of Highest and Other Applicable Earned Degrees**	**Additional Qualifications: List related certifications and licenses and professional experience in field.**
Kevin Tyle, Manager of Departmental Computing	20	AATM 350 Meteorological Data Analysis and Visualization AATM 433Advanced Geophysical Data Analysis and Visualization	MS, University at Albany	Atmospheric Sciences	
Mathias Vuille, Professor	50	AENV 450 Paleoclimatology	PhD, University of Bern	Climate Sciences	
Junhong, Wang, Research Associate Professor	10	AATM 327 Metrological and environmental Measurements	PhD, Columbia University	Atmospheric Sciences	
Liming Zhou, Professor	50	AATM 335 Meteorological Remote Sensing	PhD, Boston University	Geography	
Lance F. Bosart, Distinguished Professor	100	AATM 305 Global Physical Climatology AATM 409 Atmospheric Precipitation Process	PhD, Massachusetts Institute of Technology	Meteorology	
Robert Keesee, Associate Professor	100	AATM 307/Z Introduction to Atmospheric Chemistry	PhD, University of Colorado	Physical Chemistry	
Vivek Jain, Professor	33	TPHY 151 Honors Physics II: Electromagnetism	PhD, University of Hawaii	Physics	
Matthew Szydagis, Associate Professor	25	TPHY 141 Honors Physics I Mechanics	PhD, University of Chicago	Physics	
Steven Plotnick, Associate Professor	33	TMAT 118 Honors Calculus I, TMAT 119 Honors Calculus II	PhD, University of Michigan	Mathematics	
Priyantha Sugathapala, Lecturer	50	TCHM 130 Advanced General Chemistry I Honors	PhD, Wayne State University	Organic Chemistry	
Aubrey Hillman, Assistant Professor	50	AATM 327 Meteorological and Environmental Measurement AENV 450 Paleoclimatology	PhD, University of Pittsburgh	Geology	

(a)	(b)	(c)	(d)	(e)	(f)
Faculty Member Name and Title and/or Rank at the Institution (Include and identify Program Director.)	**% of Time Dedicated to This Program**	**Program Courses Which May Be Taught (Number and Title)**	**Highest and Other Applicable Earned Degrees (include College or University)**	**Discipline(s) of Highest and Other Applicable Earned Degrees**	**Additional Qualifications: List related certifications and licenses and professional experience in field.**
Sujata Murty, Assistant Professor	50	AATM 327 Meteorological and Environmental Measurement AENV 450 Paleoclimatology	PhD, Nanyang Technological University, Singapore	Oceanography	
Part 2. Part-time Faculty (N/A)					
Adam Schultze, Adjunct Lecturer	50	AMAT 111 – Algebra and Calculus I	M.S., Loyola	Mathematics	Mathematics PhD Candidate at SUNY Albany in May 2021
William Roberts, Adjunct Lecturer	100	AATM 304/Z Air Quality and Air Pollution Policy	M.S., Eastern Michigan University	Ecology	
Part 3. To-Be-Hired Faculty (List as TBH1, TBH2, etc., and provide expected hiring date instead of name.)					