

24 January, 2019

SLCC Executive Cabinet and Board of Trustees

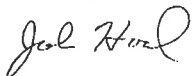
On behalf of the Department of Atmospheric Sciences at the University of Utah, I support strongly the proposed AS Atmospheric Sciences pre-major program at Salt Lake Community College (SLCC). The AS pre-major program will help create a seamless Pathway for students to transfer to the BS Atmospheric Sciences program at the University of Utah. Many of our undergraduate students transfer from SLCC to our program. This 2+2 Pathway would provide students Junior-level status upon transfer. We are committed to help transfer students be prepared prior to entry to upper division status and completion of the BS degree requirements.

Student preparation for a major in Atmospheric Sciences requires significant preparatory coursework in math, chemistry, and physics, in addition to general education and major coursework in the Atmospheric Sciences. Currently, no program at SLCC contains the appropriate curriculum to prepare students for the BS Atmospheric Sciences program at the University of Utah. Therefore, students in the past have often declared AS General Studies and have not completed the appropriate pre-requisite coursework to prepare them for transfer. This has led to students having to take additional courses after transferring, and deferring their Junior-level coursework one or several semesters or even a year.

With the AS Atmospheric Sciences at SLCC, students will complete their required pre-requisites for Junior-level coursework while at SLCC and will be prepared to have Junior-level status upon transfer, a clear Pathway for students. For a prepared student, this will allow a seamless 2+2 transfer Pathway, where students complete 2 years at SLCC and 2 years at the University of Utah, leading to successful completion of a BS Atmospheric Sciences.

Having the AS Atmospheric Sciences pre-major program at SLCC approved for the '19-'20 catalog and academic year would help to expedite the 2+2 transfer Pathway. Establishing this program immediately will be critical, particularly as we have been informed that the AS General Studies program is being phased out and will no longer be an option for prospective Atmospheric Sciences students.

Sincerely,



Professor John D. Horel, Chair
Department of Atmospheric Sciences
University of Utah

Atmospheric Sciences Pathway: SLCC -> University of Utah

SLCC First Year (Fall Semester) 16.0 units

- ATMOS 1010: Severe and Hazardous Weather (3) (PS)
- MATH 1210: Calculus I (4) (QL)
- ENGL1010 (3) (EN)
- General Education: IG (3)
- General Education: SS (3)

SLCC First Year (Spring Semester) 15.0 units

- ATMOS 1020: Climate Change (3) (PS)
- CHEM 1210: General Chemistry I (4)
- CHEM 1215: General Chemistry Lab I (1)
- MATH 1220: Calculus II (4)
- ENGL 2100 Technical Writing (3) (EN)

SLCC Second Year (Fall Semester) 17.0 units

- ATMOS 2200: Mountain Weather and Climate (3)
- PHYS 2210: Physics for Scientists and Engineers I (4)
- PHYS 2215: Physics Laboratory for Scientists and Engineers I (1)
- General Education: CM (3)
- General Education: FA (3)
- General Education: HU (3)

SLCC Second Year (Spring Semester) 14 units

- ATMOS 2100: Air Pollution and Atmospheric Chemistry (3)
- PHYS 2220: Physics for Scientists and Engineers II (4)
- General Education: AI (3)
- General Education: LS (3)
- General Education: LW (1)

UU Third Year (Fall Semester) 15.0 units

- ATMOS 5000: Introduction to Atmospheric Sciences (3)
- ATMOS 3000: Professional Development in the Atmospheric Sciences (1.5)
- ATMOS 5020: Environmental Programming (1.5)
- MATH 2210: Calculus III (3)
- Technical Elective (3)
- Atmospheric Sciences Elective(s) (3)

UU Third Year (Spring Semester) 16.5 units

- ATMOS 5050: Environmental Instrumentation (2)
- ATMOS 5100: Introduction to Dynamic Meteorology (3)
- ATMOS 3010: Weather Forecasting (1.5)
- ATMOS 5130: Physical Meteorology I: Thermodynamics (1.5)
- ATMOS 5140: Physical Meteorology II: Atmospheric Radiation (1.5)
- ATMOS 5900: Capstone Experience (1)
- MATH 2250: Ordinary Differential Equations and Linear Algebra (3)
- Technical Elective (3)

UU Fourth Year (Fall Semester) 15.5 units

- ATMOS 5110: Synoptic-Dynamic Meteorology (3)
- ATMOS 5120: Weather Discussion (1)
- ATMOS 5900: Capstone Project (1)
- Technical Electives (6)
- Atmospheric Sciences Electives (4.6)

UU Fourth Year (Spring Semester) 16.5 units

- ATMOS 5040: Environmental Statistics (1.5)
- Technical Electives (9)
- Atmospheric Sciences Electives (3)
- Upper Division Communication/Writing Course (3)

Program-Specific Articulation Agreement

Geosciences Department, Salt Lake Community College
Department of Atmospheric Sciences, University of Utah

This articulation agreement summarizes the understanding between the Atmospheric Sciences program in the Geosciences Department at Salt Lake Community College (SLCC ATMO) and the Department of Atmospheric Sciences at University of Utah (UU ATMOS). It provides for credit transfers between SLCC ATMO and UU ATMOS, and culminates in the award of a bachelor's degree at University of Utah.

This agreement clarifies transfer policies, including admissions and student status, and offers SLCC students in the AS Atmospheric Sciences program a clear pathway to completing an Associate's degree at SLCC ATMO and transferring to UU ATMOS as a matriculated, upper division student pursuing a Bachelor's degree in the Atmospheric Sciences Major.

Terms of the agreement are as follows:

- Prior to transfer, SLCC ATMO students earn the Associate of Science (AS) Atmospheric Sciences by satisfactorily completing the courses listed in the Program Curriculum Outline and catalog.
- While completing AS Atmospheric Sciences requirements students must maintain an overall GPA of 2.35 or higher and receive a grade of C or higher in all MATH courses and a grade of C- or higher in all other courses required for the pre-major.
- This includes required prerequisite courses of MATH 1210 (QL) and MATH 1220 (with C or higher), as well as PHYS 2210 (with a C- or higher).
- Upon transfer students will have Junior-level status and will begin Upper Division requirements as described in UU ATMOS program documents.
- If, upon transfer, students having Lower Division requirements that have not yet been completed, they may complete them concurrently with Upper Division coursework.
- SLCC ATMO students should seek early advisement at both SLCC ATMO and UU ATMOS to ensure proper sequencing of courses and efficient time to degree completion.
- This agreement will be reviewed as needed, and review can be initiated by either SLCC ATMO or UU ATMOS.
- This agreement will remain in effect unless terminated in writing by either institution.

Liability

Both Salt Lake Community College and the University of Utah are governmental entities under the Governmental Immunity Act, §63G-7-101 to -904 (2011), as amended (the "Act"). Notwithstanding any provision to the contrary herein, there are no indemnity obligations between these parties. Subject to and consistent with the terms of the Act, each party shall be liable only for its own negligent acts or omissions or those of its employees, officers, and agents while engaged in the performance of the obligations under this Agreement, and neither party shall have any liability whatsoever for any negligent act or omission of the other party, its employees, officers, or agents. Neither party waives any defenses or limits of liability available under the Act and other applicable law. Each party carries insurance through the State Risk Manager of the State of Utah up to the

limits required by the State Risk Manager of the State of Utah and applicable law. Nothing in this Agreement shall require either party to carry different or additional insurance. It is not the intent of either party to incur by contract any liability for the operations, acts, or omissions of the other party or any third party and nothing in this Agreement shall be so interpreted or construed. In the event of any conflict, inconsistency, or discrepancy between the provisions of this paragraph and any other provisions of this Agreement, the provisions of this paragraph of the Agreement shall govern.

Signature Date:



Maura Hahnenberger, PhD, Assistant Professor
Geosciences Department
Salt Lake Community College

1/25/19


Date



John Horel, PhD, Department Chair
Department of Atmospheric Sciences
University of Utah

12/17/18

Date



Jonathan Barnes, MS, Associate Dean Natural Sciences
School of Science, Mathematics, and Engineering
Salt Lake Community College

6/10/2019

Date



Darryl Butt, PhD, Dean
College of Mines and Earth Sciences
University of Utah

12/17/18

Date

SLCC COURSE	COURSE TITLE	CR	PART OF AS ATMOSPHERIC SCIENCES	U OF U COURSE	U OF U COURSE TITLE	CR	PART OF BS ATMOSPHERIC SCIENCES
*ATMO 1010	Severe and Hazardous Weather (PS)	3	Required course.	*ATMO 1010	Severe & Unusual Weather (SF)	3	LD [#] required course.
ATMO 1020	Climate Change (PS)	3	Required course.	ATMO 1020	Climate Change (SF)	3	LD required course.
ATMO 2100	Air Pollution and Atmospheric Chemistry	3	Required course.	ATMO 3100	Atmospheric Chemistry and Air Pollution (IR)	3	LD required course.
ATMO 2200	Mountain Weather and Climate	3	Required course.	ATMO 3200	Mountain Weather and Climate	3	LD required course.
*CHEM 1210	General Chemistry I	4	Required course.	*CHEM 1210	General Chemistry I (SF)	4	LD required course.
*CHEM 1215	General Chemistry Lab I	1	Required course.	*CHEM 1215	General Chemistry Lab I	1	LD required course.
*MATH 1210	Calculus I (QL)	4	Required course.	*MATH 1210	Calculus I (QR)	4	LD required course.
*MATH 1220	Calculus II	4	Required course.	*MATH 1220	Calculus II (QR)	4	LD required course.
*PHYS 2210	Physics for Scientists & Engr I	4	Required course.	*PHYS 2210	Physics for Scientists & Engineers I	4	LD required course.
*PHYS 2215	Physics for Scientists & Engineers Lab I	1	Required course.	*PHYS 2215	Physics Lab for Scientists & Engineers I	1	LD required course.
CHEM 1220	General Chemistry II	4	Elective course.	CHEM 1220	General Chemistry II (SF)	4	Tech elective course.
CHEM 1225	General Chemistry II Lab	1	Elective course.	CHEM 1225	General Chemistry II Lab	1	Tech elective course.
*MATH 2210	Multivariate Calculus	3	Elective course.	*MATH 2210	Calculus III (QR)	3	LD required course.
*MATH 2250	Differential Equations & Linear Algebra	4	Elective course.	*MATH 2250	Differential Equations & Linear Algebra (QR)	4	LD required course.
*PHYS 2220	Physics for Scientists & Engr II	4	Elective course.	*PHYS 2220	Physics for Scientists & Engineers II	4	LD required course.
PHYS 2225	Physics for Sci & Eng Lab II	1	Elective course.	PHYS 2225	Physics Lab for Scientists & Engineers II	1	Tech elective course.

Note: This chart does not include General Education courses required for these degrees.

* Courses in Atmospheric Sciences Getting Ready Transfer Guide 2015-2016 for transfer from SLCC to U of U.

LD stands for Lower Division.