



UNIVERSITY of WASHINGTON

Michael K. Young
President

July 17, 2013

Dean Lisa J. Graumlich
College of the Environment
Box 355679

Dear Lisa:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised program requirements for the Bachelor of Science degree in Atmospheric Sciences and the new options in Meteorology, Climate, and Chemistry. A copy of the changes is attached.

I am writing to inform you that the Department of Atmospheric Sciences is authorized to specify these requirements beginning autumn quarter 2013.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Michael K. Young".

Michael K. Young
President

Enclosure

cc: Ms. Melissa Pritchard (with enclosure)
Mr. Robert Corbett (with enclosure)
Ms. Virjean Edwards (with enclosure)



UNIVERSITY OF WASHINGTON

**CREATING AND CHANGING UNDERGRADUATE
ACADEMIC PROGRAMS**

MAR 01 2013

OFFICE USE ONLY

Control #

ATMS-2013-0123

After college/school/campus review, send a signed original and 1 copy to the Curriculum Office/FCAS, Box 355850.

For information about when and how to use this form: <http://depts.washington.edu/uwcr/1503instructions.pdf>

College/Campus	Environment/Seattle	Department/Unit	Atmospheric Sciences	Date	1/23/2013
New Programs					
<input type="checkbox"/> Leading to a Bachelor of ___ in ___ degree.					
<input type="checkbox"/> Leading to a Bachelor of ___ degree with a major in ___.					
<input checked="" type="checkbox"/> Leading to a <u>Meteorology, Climate or Chemistry</u> Option within the existing major in <u>Atmospheric Sciences</u> .					
<input type="checkbox"/> Leading to a minor in ___					
Changes to Existing Programs					
<input type="checkbox"/> New Admission Requirements for the Major in ___ within the Bachelor of ___.					
<input type="checkbox"/> Revised Admission Requirements for the Major in ___ within the Bachelor of ___.					
<input checked="" type="checkbox"/> Revised Program Requirements for the Major in <u>Atms</u> within the Bachelor of <u>Sci in U</u>					
<input type="checkbox"/> Revised Requirements for the Option in within the major in ___.					
<input type="checkbox"/> Revised Requirements for the Minor in ___.					
Other Changes					
<input type="checkbox"/> Change name of program from ___ to ___.					
<input type="checkbox"/> New or Revised Continuation Policy for ___.					
<input type="checkbox"/> Eliminate program in ___.					
Proposed Effective Date: Quarter: X Autumn <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer Year: 20 13					
Contact Person: Melissa Pritchard		Phone 543-4576	Email: chaelan@uw.edu	Box: 351640	
EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE					
For new program, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. <i>(Use additional pages if necessary).</i>					
The department of Atmospheric Sciences has maintained three tracks within the major and would like to upgrade those tracks to options. This will increase the visibility of student specialization for prospective graduate schools or employers.					
Meteorology has been our primary track but with both the Climate and Chemistry tracks gaining popularity with our majors it is important to make it clear which area students have studied.					
The ATM S 220 course is being utilized as a course that can be taken by both majors and non-majors to showcase a variety of research and career opportunities that would be of benefit to prospective majors as well as current majors.					
The variance in course requirements in the different tracks is due to the advanced requirements for the Chemistry track (Climate and Meteorology are comparable) to align with the air chemistry's rigorous core requirements. The faculty felt that four required electives were not excessive beyond the core requirements.					
For advising purposes we foresee very little or no additional work requirements for our adviser by switching from tracks to options. Our adviser fully supports this proposal.					
OTHER DEPARTMENTS AFFECTED					
List all departments/units/ or co-accredited programs affected by your new program or changes to your existing program and acquire the signature of the chair/director of each department/unit listed. Attach additional page(s) if necessary. *See online instructions.					
Department/Unit:	Chair/Program Director:			Date:	
Department/Unit:	Chair/Program Director			Date:	

CATALOG COPY

Catalog Copy as currently written. Include only sections/paragraphs that would be changed if your request is approved. Please cross out or otherwise highlight any deletions.


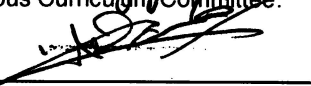


See attached

PROPOSED CATALOG COPY

Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications).
Please note: all copy will be edited to reflect uniform style in the General Catalog.

See attached

APPROVALS

Chair/Program Director:		Date:	02/10/13
College/School/Campus Curriculum Committee:		Date:	02.22.13
Dean/Vice Chancellor:		Date:	2/22/13
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:		Date:	5/3/13
POST TRI-CAMPUS APPROVAL (when needed)			
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	see email	Date:	6/10/13

Atmospheric Sciences Undergraduate Program

Current catalog copy:

Bachelor of Science

Suggested First- and Second-Year Courses: ~~CHEM 142~~

Department Admission Requirements

Students in good academic standing may declare this major at any time.

Major Requirements

Minimum **94** credits as follows:

1. *Core requirements* (~~55~~ credits): MATH 124, MATH 125, MATH 126; PHYS 121, PHYS 122, PHYS 123; ATM S 301, ATM S 321, ATM S 340, ATM S 341, ~~ATM S 358~~, ATM S 370, ATM S 431.
2. *Area of specialization*: ~~39 to 58 credits of additional coursework at the 200 level or above, selected in consultation with the faculty adviser. Suggested areas of specialization include meteorology, atmospheric chemistry and air quality, and climate.~~
3. A grade of 2.0 or better in each of the required courses ~~and an overall GPA in these courses of 2.50~~

Of Special Note: The first required atmospheric sciences course is ATM S 301, which is offered autumn quarter only. Any lower-division atmospheric sciences courses count as electives and not as part of the major.

Proposed:

Bachelor of Science

Suggested First- and Second-Year Courses: **ATM S 220; MATH 124, MATH 125, MATH 126; PHYS 121, PHYS 122, PHYS 123; CSE 142;**

Department Admission Requirements

Students in good academic standing may declare this major at any time.

Major Requirements

Minimum **97-117** credits as follows:

1. *Core requirements* (**58-59** credits): MATH 124, MATH 125, MATH 126; PHYS 121, PHYS 122, PHYS 123; **either STAT 390/MATH 390 or Q SCI 381; ATM S 220;** ATM S 301, ATM S 321, ATM S 340, ATM S 341, ATM S 370, ATM S 431.
2. *Options* (39-58 credits):
 - a) Meteorology (42-45 credits):
 1. Core (33 credits): AMATH 301; ATM S 358; ATM S 441; ATM S 442; ATM S 444; ATM S 451; ATM S 452; CSE 142.
 2. Advanced Mathematics (9-12 credits): MATH 324; either AMATH 351 and AMATH 353 or MATH 307, MATH 308 and MATH 309.
 - b) Climate (39-49 credits):
 1. Core (27-29 credits): AMATH 301; ATM S 358; ATM S 380; ATM S 460; ATM S 487; CSE 142; either ESS 431 or ESS 433; either OCEAN 423 or OCEAN 450.
 2. Electives (12-20): minimum of four courses from an approved list. See advisor for approved list of electives.
 - c) Chemistry (52-58 credits):
 1. Core (52-58 credits): ATM S 451, ATM S 458, ATM S 480, CHEM 142, CHEM 152, CHEM 162, CHEM 223, CHEM 224, CHEM 321.
 2. Electives (12-18 electives): minimum of four courses from an approved list. See advisor for approved list of electives.
3. A grade of 2.0 or better in each of the required courses ~~and an overall GPA in these courses of 2.50~~

Of Special Note: The first required atmospheric sciences course is ATM S 301, which is offered autumn quarter only. Any lower-division atmospheric sciences courses **except ATM S 220** count as electives and not as part of the major.

Atmospheric Sciences Undergraduate Degree

Foundation Courses

MATH 124	5
MATH 125	5
MATH 126	5
PHYS 121	5
PHYS 122	5
PHYS 123	5
	30

ATMS 220 (x2)	2
ATMS 301	5
ATMS 321	3
ATMS 340	3
ATMS 341	3
ATMS 370	5
ATMS 431	3
	24

Statistics Core Course

STAT 390/MATH 390	4
or	
Q SCI 381	5
	4-5

Total credits 42-45

Track Required Courses

AMATH 301	4
ATMS 358	3
ATMS 441	3
ATMS 442	5
ATMS 444	4
ATMS 451	5
ATMS 452	5
CSE 142	4
	33

Track Required Math

AMATH 351	3
AMATH 353	3
MATH 324	3
or	
MATH 307	3
MATH 308	3
MATH 309	3
MATH 324	3
	9-12

Climate Track

Total credits 39-49

Track Required Courses

AMATH 301	4
ATMS 358	3
ATMS 380	3
ATMS 460	3
ATMS 487*	3
CSE 142	4
ESS 431 or 433	4-5
OCEAN 423 or 450	3-4
	27-29

Track Electives (choose four)

AMATH 351	3
AMATH 352	3
AMATH 353	3
ATMS 441 & 442 (counts as 2)	8
ATMS 444	4
ATMS 451	5
ATMS 452	5
ATMS 588	3
ENVIR 384	5
ENVIR 416	5
ENVIR 418	5
MATH 308	3
MATH 324	3
OCEAN 200	3
OCEAN 210	3
OCEAN 420	4
	12-20

Total credits 52-58

Track Required Courses

ATMS 451	5
ATMS 458	4
ATMS 480	3
CHEM 142	5
CHEM 152	5
CHEM 162	5
CHEM 223	4
CHEM 224	4
CHEM 321	5
	40

Track Electives (choose four)

AMATH 301	4
AMATH 351	3
AMATH 352	3
ATMS 380	3
ATMS 441	3
ATMS 442	5
ATMS 444	4
ATMS 452	5
ATMS 508	4
ATMS 564	3
CHEM 312	3
CHEM 426	3
CHEM E 341	3
CHEM E 468	3
MATH 308	3
MATH 324	3
	12-18

58-59 core + 39-58 elec. = 97-117

*487 pending review



Undergraduate Curriculum Review Process for New Programs

[Board](#) [Manage Participants](#) [Profile \(uwcr\)](#) Search

Seattle: Options in Meteorology, Climate, and Chemistry within the Bachelor of Science degree in Atmospheric Sciences (ATMS-20130123)

Go to New! posts
Page 1 of 1

Moderator actions ▾

↓ Reply

New conversation ↑

uwcr
uwcr

Board owner

Posted May 14, 2013 3:08 PM

Edited May 14, 2013 3:09 PM by uwcr (Board owner)

[Edit](#) [Quote](#) [Permalink](#)

Please review the attached 1503 pdf requesting to convert the existing tracks in Meteorology, Climate, and Chemistry within the Bachelor of Science degree in Atmospheric Sciences to transcribed options and post comments by 5:00 pm on Tuesday, June 4th.

If you have any problems viewing the attachment or need disability accommodations, please contact the University Curriculum Office at uwcr@uw.edu.

Attachments:



ATMS-20130123.pdf 8.9M

[Download](#) [View](#)**jfinke**
JOHN FINKE

New! Posted May 16, 2013 2:22 PM

[Delete](#) [Edit](#) [Quote](#) [Permalink](#)

The proposal is reasonable and does not require additional resources. I see no reason why it shouldn't be approved.

fteng
FANGZHEN TENG

New! Posted May 24, 2013 7:02 AM

[Delete](#) [Edit](#) [Quote](#) [Permalink](#)

This will provide more opportunities for students who are interested in Meteorology, climate and chemistry. I would recommend it approved.

gcanton
MARIA DE GADOR
CANTON

New! Posted Jun 3, 2013 10:32 AM

[Delete](#) [Edit](#) [Quote](#) [Permalink](#)

I recommend the approval of the proposal as it has the potential to open job opportunities to students with no additional resources and negligible additional work for adviser.

Add to this conversation:

Font Name and Size		Font Style		Alignment			
Arial 13		B I U		A A A A			
Paragraph Style		Indenting and Lists		Insert Item		HTML Spelling	
Normal		List Bulleted List Numbered		Image Table Link		HTML Spelling	

Common formatting keyboard shortcuts:

- Control Shift B sets text to bold
- Control Shift I sets text to italic
- Control Shift U underlines text
- Control Shift [aligns text left
- Control Shift | centers text
- Control Shift] aligns text right
- Control Shift L adds an HTML link

To exit this text editor use the keyboard shortcut Control + Shift + ESC.

Jennifer A. Payne

Post Tri-Campus E-vote

From: Grayson Court
Sent: Tuesday, June 18, 2013 9:03 AM
To: John E. Schaufelberger; George L. Dillon; Donald J. Janssen; Gunnar R. Almgren; Bradley R. Holt; Sarah Stroup; 'nrotcco@u.washington.edu' (nrotcco@u.washington.edu); Richard G. Keil; Patricia A. Kramer; David B. Pengra; Susanna L. Cunningham; JENNIFER TAGGART; ANNETTE P. ANDERSON; Grant Kollet; Cynthia Fugate; 'asuwbdfa@uw.edu' (asuwbdfa@uw.edu); 'gpssua@uw.edu' (gpssua@uw.edu); Mel Wensel
Cc: Jennifer A. Payne
Subject: RE: URGENT: Email ballot - Approve Atmospheric Sciences' 1503 - DEADLINE: June 18th

Hello everyone,

Atmospheric Sciences' 1503 has been approved, thank you all for voting.

Enjoy the summer!

-Grayson

From: Grayson Court
Sent: Thursday, June 13, 2013 1:22 PM
To: John E. Schaufelberger; George L. Dillon; Donald J. Janssen; Gunnar R. Almgren; Bradley R. Holt; Sarah Stroup; 'nrotcco@u.washington.edu' (nrotcco@u.washington.edu); Richard G. Keil; Patricia A. Kramer; David B. Pengra; Susanna L. Cunningham; JENNIFER TAGGART; ANNETTE P. ANDERSON; Grant Kollet; Cynthia Fugate; 'asuwbdfa@uw.edu' (asuwbdfa@uw.edu); 'gpssua@uw.edu' (gpssua@uw.edu); Mel Wensel
Subject: URGENT: Email ballot - Approve Atmospheric Sciences' 1503 - DEADLINE: June 18th
Importance: High

Hello everyone,

This is a reminder to approve Atmospheric Sciences' 1503. For those who have not yet voted please submit your vote via the Catalyst link: <https://catalyst.uw.edu/webq/survey/senate/205588>. As a reminder ex officio members are able to vote and count towards quorum, so if you are receiving this message please submit your vote along with faculty members.

Please let me know if you have any questions.

Regards,

Grayson Court

Faculty Council Support Analyst
Office of Faculty Governance
University of Washington
36 Gerberding Hall
Box 351271
Seattle, WA 98195
206-543-2884
gcourt@uw.edu

From: Grayson Court

Sent: Tuesday, June 11, 2013 2:52 PM

To: John E. Schaufelberger; George L. Dillon; Donald J. Janssen; Gunnar R. Almgren; Bradley R. Holt; Sarah Stroup; 'nrotcco@u.washington.edu' (nrotcco@u.washington.edu); Richard G. Keil; Patricia A. Kramer; David B. Pengra; Susanna L. Cunningham; JENNIFER TAGGART; ANNETTE P. ANDERSON; Grant Kollet; Cynthia Fugate; 'asuwbdfa@uw.edu' (asuwbdfa@uw.edu); 'gpssua@uw.edu' (gpssua@uw.edu); Mel Wensel

Subject: Email ballot - Approve Atmospheric Sciences' 1503 - DEADLINE: June 18th

Importance: High

Hello everyone,

This is an email ballot to approve Atmospheric Sciences' 1503. Please review the information provided by Jennifer Payne. The deadline to submit your approval vote is **Tuesday, June 18th**. If the 1503 is not approved by this deadline FCAS will have to wait until its next meeting in October to approve changes. Please submit your vote via the Catalyst link: <https://catalyst.uw.edu/webq/survey/senate/205588>.

Deadline: Tuesday, June 18th

Atmospheric Sciences - (ATMS-20130123) New options in Meteorology, Climate, and Chemistry within the Bachelor of Science degree in Atmospheric Sciences; revised program requirements for the Bachelor of Science degree in Atmospheric Sciences.

Background: The department has maintained the proposed options as tracks and having them approved as options will increase the visibility for prospective graduate schools and employers. The department is also making changes to the core requirements to comply with the requirements for establishing options.

Action Taken: 03/15/2013 - SCAP would like the department to justify existing grandfathered grade policies within the major (minimum 2.0 in each course and 2.5 cumulative GPA) as this 1503 is requesting substantive changes within the major. Pending.

Action Taken: 04/12/2013 - Pending - Department was willing to drop minimum grade of 2.0 in each course and keep 2.5 cumulative GPA. SCAP has countered with minimum 2.5 cumulative GPA in non-ATMS courses and a 2.0 cumulative GPA in ATM S courses applied to the minor. Waiting for response from the department. SCAP/FCAS agreed to keep minimum grade of 2.0 in each course and to drop the cumulative GPA.

****Action Taken: 6/11/2013: Post Tri-Campus Review of conversion of existing tracks within the major to transcribed Options— 3 positive comments.**

Please let me know if you have any questions.

Regards,

Grayson Court

Faculty Council Support Analyst

Office of Faculty Governance

University of Washington

36 Gerberding Hall

Box 351271

Seattle, WA 98195

206-543-2884

gcourt@uw.edu

UNIVERSITY CAMPUSES UNDERGRADUATE PROGRAM REVIEW PROCEDURES**

CHECKLIST

Title of Proposal: Options in Meteorology, Climate, and Chemistry within the
Bachelor of Science degree in Atmospheric Sciences.

Proposed by (unit name): Atmospheric Sciences

Originating Campus:

☒ UW, Seattle

☐ UW, Bothell

☐ UW, Tacoma

I. Phase I. Developed Proposal Review (to be completed by Originating Campus' Academic Program Review body)

A. Review Completed by: (list name of program review body)

Chaired by:

05/03/13 Date proposal received by originating campus's review body

05/10/13 Date proposal sent to University Registrar

05/14/13 Date proposal posted & email sent to standard notification list

06/18/13 Date of originating campus's curriculum body approval

(Note: this date must be 15 business days or more following date of posting)

B. 3 Number of comments received. Attach the comments and a summary of the
consideration and responses thereof : (1-2 paragraphs)

II. Phase II. Final Proposal Review (to be completed by FCTCP)

A. Review Completed by:

☐ FCTCP subcommittee

☒ FCTCP full council

Chaired by: William Erdly

6/19/13 Date request for review received from University Registrar

7/2/13 Date of FCTCP report

B. Review (attached)

YES NO

- ☒ ☐ Was notice of proposal posted on UW Website for 15 business days?
☒ ☐ Was notice of proposal sent to standard mailing list 15 business days in advance of academic program review?
☒ ☐ Were comments received by academic program review body?
☒ ☐ Was response to comments appropriate? (explain, if necessary)
☒ ☐ Was final proposal reviewed by FCTCP within 14 days of receipt?
☒ ☐ Was there adherence to the University Campuses Undergraduate Program Review Process? (explain, if necessary)

C. Recommendation

- ☒ Forward for final approval
☐ Forward to Provost because of University issues (Explain)
☐ Return to campus council because of insufficient review (Explain).

****Endorsed by Faculty Senate Executive Committee, 1/10/05, modified 1/31/06; These procedures apply to new undergraduate degrees, majors, minors (and certificates) and substantive changes to same**