

CGPS-NP-Ph.D.AtmosOcenSci-T_Envi_R00 New Program/Major or Minor/Concentration **Proposal Form**

									(2017
1.0	Degree Title Please specify the two degrees for concurrent	degree		2.0	Administering F	aculty/l	Jnit		
	Doctor of Philosophy (Ph.D.)				Graduate and	Postdo	ctoral Studies	(GPS)	д
1 1	Major (Legacy - Subject) (30-char, max.)					/Denar	tment	()	
1.1	Atmospheric and Oceanic Sciences				SC - Atmosph	eric and	d Oceanic Scie	ences	л
1.2	Concentration (Legacy = Concentration/Option If applicable to Majors only (30 char. max))		3.0	Effective Term of (Ex. Sept. 2004) Term	of Imple = 2004	mentation 09)		
	Environment				202001		7		
1.3	Minor (with Concentration, if Applicable) (30cha	ar. max)						
			,						
4.0	Rationale and Admission Requirements for Ne	w Prop	osal	- E inc			with the Mad		- I
	 are taking this opportunity to retire the M.Sc. Environment Option program. Our M.Sc. program requires students to take several graduate courses in the department, leaving little time for students to take additional courses within the Environment Option. However, because the PhD allows more time and more in-depth research, and because some prospective students have expressed interest in the Environment Option and could benefit from the interdisciplinary perspective it offers, we would like to add it to our PhD program. Prospective Environment Option students must apply for admission to both Atmospheric and Oceanic Sciences and the School of Environment and must meet the entrance requirements of both. Acceptability into the Option will be based on academic experience and performance, availability of a supervisor or co-supervisor, the proposed research, and plans for funding as articulated by the supervisor(s). This option is not available to students entering at the PhD 1 level, but can be chosen in subsequent years. 								
5.0	Program Information								
	Please check appropriate box(es)								
5.1	Program Type	5.2	Category			5.3	Level		
	Bachelor's Program		□ Faculty Prog	ram (FP)		Undergrad	duate	
	□ Master's		□ Major				Dentistry/L	_aw/Medicine	
	□ M.Sc. (Applied) Program		Joint Major				🗆 Continuing	g Studies	
	Dual Degree/Concurrent Program		Major Conce	entration	(CON)		(Non-Cred	lits)	
	Certificate		□ Minor				□ Masters &	Grad Dip & Certs	
	🗆 Diploma		□ Minor Conce	ntration	(CON)		☑ Doctorate	l.	
	Graduate Certificate		□ Honours (HC	DN)			□ Post-Grad	luate Medicine/	
	Graduate Diploma		Joint Honour	s Compo	onent (HC)		Dentistry		
	⊠ Ph.D. Program		□ Internship/Co	о-ор			□ Graduate	Qualifying	
	Doctorate Program		🛛 Thesis (T)				Postdocto	ral Fellows	
	(Other than Ph.D.)		🗆 Non-Thesis (N)					
	Private Program		□ Other:			5.4	FQRSC (Res	search) Indicator	
	Off-Campus Program		Please specify				(For GPS)		
	Distance Education Program						⊠ Yes	□ No	
	(By Correspondence)								
	□ Other:					5.5	Requires Read (financial, pe	sources rsonnel, space)	
	Please specify						□ Yes	🖾 No	
			1						
6.0	Total Credits			7.0	Consultation wit	h			

0	

Related Units	⊠ Yes	□ No			
Financial Consult	□ Yes	🖾 No			
Attach list of consulta	ttach list of consultations.				

New Program/Major or Minor/Concentration Proposal Form P1-1

8.0 Program Description (Maximum 150 words) The Ph.D. in Atmospheric and Oceanic Sciences; Environment is a research program offered in collaboration with the School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

9.0 List of proposed program for the New Program/Major or Minor/Concentration If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of courses) of existing Major/Minor. Proposed program (list course as follow: Subi Code/Crse Num. Title. Credit weight. under the heading of: Required Courses, Complementary Courses, and Elective Courses). Thesis A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline: as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain. Required Courses (4 credits) ATOC 700 Ph.D. Proposal Seminar (1 credit) ATOC 701 Ph.D. Comprehensive (General) (0 credits) ENVR 615 Interdisciplinary Approach Environment and Sustainability (3 credits) Complementary Courses (13 credits) Students are required to take ATOC 751D1 and ATOC 751D2 OR ATOC 752D1 and ATOC 752D2. 1 credit from: ATOC 751D1 Seminar: Physical Meteorology (0.5 credits) ATOC 751D2 Seminar: Physical Meteorology (0.5 credits) ATOC 752D1 Atmospheric, Oceanic and Climate Dynamics (0.5 credits) ATOC 752D2 Atmospheric, Oceanic and Climate Dynamics (0.5 credits) 6 credits from: the Department of Atmospheric and Oceanic Sciences, at the 500 level or higher, as approved by the departmental Graduate Program Director. 3-6 credits from: ENVR 610 Foundations of Environmental Policy (3 credits) ENVR 614 Mobilizing Research for Sustainability (3 credits) 0-3 credits from: ENVR 585 Readings in Environment 2 (3 credits) ENVR 630 Civilization and Environment (3 credits) ENVR 680 Topics in Environment 4 (3 credits) or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee. See next page for existing program requirements.

			CGPS-NP-Ph.D.AtmosOcenSci-T_Envi_R00				
10.0	Approvals						
	Routing Sequence	Name	Signature	Date			
	Department	Timothy Merlis	Ani	October 22, 2019			
	Curric/Acad Committee	IA.		24 Sept 20/			
	Faculty 1	LOSLE MILED	fell f	15(0+201			
	Faculty 2						
	Faculty 3						
	CGPS						
	SCTP						
	APC						
	Senate						
	Submitted By						
	Name	ne To be completed by ARR:		To be completed by ARR:			
	Phone						
	Email						
	Submission Date	Click here to enter a date.					

Existing program requirements

Ph.D. in Atmospheric and Oceanic Sciences (0 credits)

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (1 credit) ATOC 700 Ph.D. Proposal Seminar (1 credit) ATOC 701 Ph.D. Comprehensive (General)

Complementary Courses (7 credits) Students are required to take ATOC 751D1 and ATOC 751D2 OR ATOC 752D1 and ATOC 752D2.

1 credit from: ATOC 751D1 Seminar: Physical Meteorology (0.5 credits) ATOC 751D2 Seminar: Physical Meteorology (0.5 credits) ATOC 752D1 Atmospheric, Oceanic and Climate Dynamics (0.5 credits) ATOC 752D2 Atmospheric, Oceanic and Climate Dynamics (0.5 credits)

And 6 credits from the Department of Atmospheric and Oceanic Sciences, at the 500 or 600 level, as approved by the Graduate Program Director.

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