UNIVERSITY OF MARY WASHINGTON -- NEW COURSE PROPOSAL

Electronically submit th	<u> </u>			-		ge Curri			e.
					ess Education				
Proposal Submitted By				Date F	Prepared:11/2	2/2018			
Course Title: Specia									
Department/discipline	and course number		graphy MS0	SA 571					
Prerequisites:		N/A							
*This course number mus	st be approved by th	ne Office of the	e Registrar <u>b</u>	<u>efore</u> the p	roposal is sub	mitted.			
Number of credits: 4	Will this cours						YES	√ NO	
Will this be a new , repo							NO	YE	S √
take this new course m									
		•	,						
Date of first offering of	this new course:	FALL SEME	STER, yea	r Sprii	ng 2020				
Proposed frequency of			Annually i		•				
Proposed enrollment limit for the course: 18									
List the faculty who will likely teach the course: Ping Yin, Marco Mi					lones Maver				
Are ANY new resource		NO √			nent in attach	ned imp	act stat	ement	
**The earliest the course									urse
proposal is approved.	,					,			
This new course will	he (check all tha	t apply):							
Required in the major	bo (oncon an tha		in the minor	r	Genera	al Electi	ve		
			n the minor	'		General Education**			
**AFTER the new course is approved, a separate proposal <u>must be</u> sent to the Ge									<u> </u>
Catalog Description (suggested length	– less than	50 words):						
This special topics co	ourse will focus	on the appli	cations of	geograph	ic informati	on scie	ence (G	ilS) in a	a .
specific domain deter									
health, or environmen			, .					, 1	
							_		
COURSE HISTORY:	Was this course taught previously as experimental course?			topics or	YES		NO	√	
Course Number and Title of Previous Course					Semester	Semester Enrollment			
Oddied Halliper and Title of Frevious Course						Offered			
					- Cilorou				
CHECK HERE if the	e proposed course i	s to be equat	ed with the e	arlier topic	s or experimer	ntal offer	inas. If	equated	I.
students who took t									
NOTE: If the proposed co	urse has not been	previously offe	ered as a top	ics or expe	rimental cours	e, expla	in in th	e attach	ed
rationale statement why	the course should	be adopted ev	en though it	has not be	en tried out.	•			
REQUIRED ATTACHN		0.1							
1. Rationale Statemen						Crodit U	louro Do	liov (D. E	. 37
 Credit Hour Justific Impact Statement – 									1.3)
adding this new cours									acts
another Departmen									
4. Sample Syllabus			,	,		, . g. s.	J 12 1		J
. •									
Department Chair Approval*: Jackie Gallagher					Date	: Nov	9 2018	<u> </u>	
0 111					Date: 12/03/2018				
CCC Chair Approval:	Jun	1 ble-			Date	. 12/03	/2018		

*COB and COE proposals approved by the Associate Dean. *BEFORE* consideration by the UCC, the proposal must be approved the two levels noted above. Approval by the UCC and UFC are noted on the proposal "status history" at the UCC web site.

Rationale Statement

The current curriculum of the Masters of Science in Geospatial Analysis (MSGA) program was approved in 2013-14 to accommodate the faculty available at that time. To meet the requirements for the degree, students have to complete all of the six courses offered as well as a capstone project: there are no electives. While Ping Yin was hired as the program began, he was not involved in creating it. With the addition of Marco Millones Mayer in 2016, faculty expertise has changed considerably since the program was devised. Given the rapid expansion of geospatial technology, and strong interest in the "4+1" program introduced in 2017, we are proposing to change our MSGA curriculum to provide more flexibility to students and to better leverage faculty expertise for students' benefit.

As part of the change to the MSGA curriculum, we propose a new course: MSGA 571, Special Topics in Geospatial Analysis course, which will be an elective course. This course will focus on the applications of geographic information science in a specific topic domain determined at the instructor's discretion, such as land use and land cover change analysis, public health, or environmental modeling. This course will benefit students by covering new topics not fully addressed by other MSGA courses; by enhancing students' domain knowledge; and, by strengthening practical skills in geospatial technology to solve real-world problems. As with undergraduate courses, if one version of this course is taught three times, it will be converted into a regular course.

Impact Statement

No immediate impact is expected on teaching resources. Since this will be one of several elective courses, it need not be offered every semester or even every year. Elsewhere, we propose that the MSGA changes from having 6 required courses to 3 required courses, and 3 elective courses. MSGA 571 will be one of five listed electives, only three of which would be taught in any one year. This model introduces flexibility, as faculty can vary which graduate courses they teach and will thus be available to teach undergraduate courses. Unless the MSGA grows substantially, we do not anticipate any new resources.

No significant IT impact is anticipated, because MSGA 571 will use the same set of hardware and software as our existing MSGA courses (e.g., ArcGIS Desktop, ArcGIS Online, Terrset/Idrisi, and Envi).

We have not provided a syllabus since this is a special topics course, and the syllabus would vary each time. However, the course will meet from 6:00-9:30 pm one night per week and will have computer exercises given in a laboratory format.