CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

Pr	OGRAM AREASMATH					
1.	Catalog Description of the Course. [Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of units); time distribution (Lecture hours, laboratory hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]					
	MATH 480 DIFFERENTIAL AND IT Three hours of lecture per week. Prerequisite: MATH 351 Topics include: Implicit Function theorem Gauss-Bonnet Theorem.				al isometries.	
2.	Mode of Instruction.		Hours per	Benchmark		
		Units	Unit	Enrollment		
	Lecture	3	1	24		
	Seminar					
	Laboratory					
	Activity					
	Writing, and/or Language requirements) / The course is an elective for Mathematics Through this course, students will be able	majors.	pace as necessary]	, -		
	 Discuss and use the Implicit Function Apply the basic features of Riemannia Use differentials in a theoretically sou Analyze general curves with respect to Use the Gauss-Bonnet Theorem Present concepts and techniques of Di 	n manifolds nd manner/ o their curvatur	re		tten form.	
	This course is not designed to satisfy the U	Iniversity Writ	ing or Language re	quirements.		
4.	Is this a General Education Course	YES	<u>NO</u>			
	If Yes, indicate GE category:					
	A (English Language, Communication,	Critical Think	king)			
	B (Mathematics & Sciences) C (Fine Arts, Literature, Languages & C	Tultures)		-		
	D (Social Perspectives)	Juitures)		-		
	E (Human Psychological and Physiological Expression of the Company of the Expression	cal Perspectiv	(20)			

5.	Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]				
	Implicit Function theorem Differentials Riemannian manifolds Curvature Local isometries Gauss-Bonnet Theorem.				
6.	References. [Provide 3 - 5 references on which this course is based and/or support it.]				
	Warner, Frank Foundations of differentiable manifolds and Lie groups, New York: Springer, current edition.				
7.	List Faculty Qualified to Teach This Course.				
	All Mathematics Faculty				
8.	Frequency. a. Projected semesters to be offered: FallX_ Spring _X Summer				
9.	New Resources Required.				
	a. Computer (data processing), audio visual, broadcasting needs, other equipment				
	None				
	b. Library needs				
	None				
	c. Facility/space needs				
	None				
10.	Consultation. Attach consultation sheet from all program areas, Library, and others (if necessary)				
11.	If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification				
 Pr	oposer of Course Date				