Nu	mber:	•	UWUCC Use Only Number: 9/-42 Action: Date:	
	CUR University	RICULUM PROPOSAL C -Wide Undergraduate Cu	OVER SHEET	
I.	Title/Author of Cha	nge		ě
	Course/Program Tine Suggested 20 Char Department:Mathe Contact Person:	racter Course Title: ADV	MATH FOR APLCTNS	_
H.	If a course, is it be	ing Proposed for:		
	Course Liberal	e Revision/Approval Only e Revision/Approval and L Studies Approval Only (red by the University Sen	course previously has been	
III.	Approvals Department Curricul Hamasty College Curriculum	um Committee Depar	tment Chairperson Col- Je Dean *	
	Director of Liberal S (where applicable)	tudies Provo	st (where applicable)	
	proposed cha that all reques	ists for resources made as the proposal has the sun	ge Dean indicates that the grange planning documents,	
V.	Timetable	j kumat Akt	· · · · · ·	
	Date Submitted to LSC:	Semester to be implemented:	Date to be published	
	to UWUCC:		in Catalog:	

Part II. Description of Curriculum Change

- 1. The new catalog description for MA 342 is on the following page.
- 2. The name change is:

Old

New

MA 342 Advanced Calculus for Applications MA 342 Advanced Mathematics for Applications

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3. Justification /Rationale for changes.

The only proposed change is in the name of the course. The current name suggests an overlap in material with MA 421 Advanced Calculus I and MA 422 Advanced Calculus II. If fact, the courses cover very different material. We believe the proposed name will eliminate a potential source of confusion for students.

Prerequisite: MA 241

This course deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.