

New Course

Proposal Reference Number : 431
 Version No : 1
 Submitted By : Ms Angela Lapenna

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New Data					
Program Affected?	N				
Program Revision Form Submitted?					
Subject/Course/Term	MATH 567 <ul style="list-style-type: none"> one term 				
Credit Weight or CEU's	4 credits				
Course Activities	<table border="1"> <thead> <tr> <th>Schedule Type</th> <th>Hours per week</th> </tr> </thead> <tbody> <tr> <td>A - Lecture</td> <td>3</td> </tr> </tbody> </table>	Schedule Type	Hours per week	A - Lecture	3
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A - Lecture	3				
Total Hours per Week : 3 Total Number of Weeks : 13					
Course Title	<table border="1"> <tbody> <tr> <td>Official Course Title :</td> <td>Intro to Functional Analysis</td> </tr> <tr> <td>Course Title in Calendar :</td> <td>Introduction to Functional Analysis</td> </tr> </tbody> </table>	Official Course Title :	Intro to Functional Analysis	Course Title in Calendar :	Introduction to Functional Analysis
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Course Title in Calendar :	Introduction to Functional Analysis				
Rationale	<p>Functional Analysis plays an increasingly important role in many branches of Pure and Applied Mathematics, Physics and Engineering. Our department currently only offers graduate level courses on this subject which are infrequently taught. MATH 567 will be accessible to undergraduate students with a background in Analysis, but does not require familiarity with graduate level material (e.g. Measure Theory). The course should therefore be of interest to undergraduates in our Honours Programs (including the Joint Honours in Mathematics and Physics) as well as to graduate students specializing in Analysis and Applied Mathematics.</p>				
Responsible Instructor					
Course Description	Banach and Hilbert spaces, theorems of Hahn-Banach and Banach-Steinhaus, open mapping theorem, closed graph theorem, Fredholm theory, spectral theorem for compact self-adjoint operators, spectral theorem for bounded self-adjoint operators.				
Teaching Dept.	0290 : Mathematics and Statistics				
Administering Faculty/Unit	SC : Faculty of Science				
Prerequisites	MATH 355 or equivalent. Web Registration Blocked? : N				
Corequisites					
Restrictions					
Supplementary Calendar Info					
Additional Course Charges					
Campus	Downtown				

Projected Enrollment	12
Requires Resources Not Currently Available	N
Explanation for Required Resources	
Consultation Reports Attached?	
Effective Term of Implementation	200909
File Attachments	No attachments have been saved yet.
To be completed by the Faculty	
For Continuing Education Use	

Approvals Summary

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Version No.	Departmental Curriculum Committee	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP	Version Status
1		Approved Axel W Hundemer Meeting Date: May 05 2008 Approval Date: Jul 17 2008 View Comments	Approved Angela Lapenna Meeting Date: September 4, Approval Date: Sep 4 2008 View Comments					Approved by Departmental Chair Created on: Jul 17 2008