

Revision for MATH 264

Proposal Reference : 1166
 Number
 PRN Alias : 09-10#119
 Version No : 4
 Submitted By : Ms Amber Louise Saunders
 Edited By : Ms Amber Louise Saunders

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Summary of Changes **Course Activities, Course Title, Course Description, Prerequisites, Restrictions**

	Current Data	New Data								
Program Affected?		Y								
Program Change Form Submitted?		N (Simple Change) - Please change title in "Required Courses" (Non-Departmental Subjects) list in B.Eng. Chemical Engineering, B.Eng. Civil Engineering, B.Eng. Computer Engineering, B.Eng. Electrical Engineering, B.Eng. Honours in Electrical Engineering, B.S.E. Software Engineering, B.Eng. Mechanical Engineering, B.Eng. Honours in Mechanical Engineering, B.Eng. Materials Engineering Co-op, and B.Eng. Mining Engineering Co-op.								
Subject/Course/Term	MATH 264 <ul style="list-style-type: none"> one term 									
Credit Weight or CEU's	3 credits.									
Course Activities	<ul style="list-style-type: none"> A - Lecture CT - Class Test T - Tutorial 	<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> <tr> <td>T - Tutorial</td> <td>1</td> </tr> <tr> <td>IS - Independent Study</td> <td>5</td> </tr> </tbody> </table> <p>A schedule type was removed. Total Hours per Week : 9 Total Number of Weeks : 13</p>	Schedule Type	Hours Per Week	A - Lecture	3	T - Tutorial	1	IS - Independent Study	5
Schedule Type	Hours Per Week									
A - Lecture	3									
T - Tutorial	1									
IS - Independent Study	5									
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Advanced Calculus ENG</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Advanced Calculus ENG.</td> </tr> </table>	Course Title on Transcript	Advanced Calculus ENG	Course Title on Calendar	Advanced Calculus ENG.	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Adv Calculus for Engineers</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Advanced Calculus for Engineers.</td> </tr> </table>	Course Title on Transcript	Adv Calculus for Engineers	Course Title on Calendar	Advanced Calculus for Engineers.
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Rationale		The revised course description accurately reflect proposed changes to the course curriculum. The changes are intended to improve the coherence of the course sequence and to ease transfer of credit								

		<p>for students transferring to and from Engineering and Science. They also respond to a recognized need to reduce the number of topics and increase concentration on certain items, such as Fourier series. The course title is being revised for aesthetic reasons. The course activities are revised to reflect current activities scheduled. MATH 260 has not been offered since 2004, so should be removed from the prerequisites. MATH 265 has not been offered since 2004, so should be removed from the course restrictions. MATH 314 and MATH 248 should be removed from the restriction because the course content of MATH 314 is not similar enough to MATH 264 to warrant equivalence. MATH 319 and MATH 375 cover the material in MATH 264, so these are being added to the restriction. Wording in the restriction is changed slightly. This is a required course in B.Eng. Chemical Engineering, B.Eng. Civil Engineering, B.Eng. Computer Engineering, B.Eng. Electrical Engineering, B.Eng. Honours in Electrical Engineering, B.S.E. Software Engineering, B.Eng. Mechanical Engineering, B.Eng. Honours in Mechanical Engineering, B.Eng. Materials Engineering Co-op, and B.Eng. Mining Engineering Co-op.</p>						
Responsible Instructor								
Course Description	Multiple integration. Vector fields. Vector calculus. Introduction to partial differential equations and Fourier Series.	<p>Review of multiple integrals. Differential and integral calculus of vector fields including the theorems of Gauss, Green, and Stokes. Introduction to partial differential equations, separation of variables, Sturm-Liouville problems, and Fourier series.</p>						
Teaching Dept.	0290 : Mathematics and Statistics							
Administering Faculty/Unit	EN : Faculty of Engineering							
Prerequisites	Prerequisites: MATH 260 or MATH 262 or MATH 151 or MATH 152 or equivalent.	<p>Prerequisites: MATH 262 or MATH 151 or MATH 152 or equivalent.</p> <table border="1"> <tr> <td>Web Registration Blocked? :</td> <td>Y</td> </tr> <tr> <td>Minimum Grade or Test Scores :</td> <td>C</td> </tr> <tr> <td>Prereq course or test taken at the same time? :</td> <td>N</td> </tr> </table>	Web Registration Blocked? :	Y	Minimum Grade or Test Scores :	C	Prereq course or test taken at the same time? :	N
Web Registration Blocked? :	Y							
Minimum Grade or Test Scores :	C							
Prereq course or test taken at the same time? :	N							
Corequisites	Corequisites: Math 263							
Restrictions	<ul style="list-style-type: none"> Restrictions: Open only to students in the Faculty of Engineering. Not open to students taking or having taken MATH 248, MATH 265 or 	<ul style="list-style-type: none"> Restrictions: Open only to students in the Faculty of Engineering. Not open to students who are taking or have taken MATH 319 or 						

	MATH 314.	MATH 375.
Supplementary Calendar Info	1. (3-1-5)	1. (3-1-5)
Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201001
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
4		Approved Jacques Claude Hurtubise Meeting Date: Nov 02 2009 Approval Date: Nov 5 2009 View Comments	Approved Jacques Claude Hurtubise Meeting Date: Nov 05 2009 Approval Date: Nov 5 2009 View Comments					Approved by Departmental Chair Edited by: Amber Louise Saunders on: Nov 3 2009
3								Submitted to Departmental Meeting for approval Edited by: Amber Louise Saunders on: Oct 28 2009

2								Submitted to Departmental Meeting for approval Edited by: Amber Louise Saunders on: Oct 8 2009
1								Submitted to Departmental Meeting for approval Created on: Sep 19 2009