

## Revision for MATH 133

Proposal Reference Number : 2237  
 PRN Alias : 10-11#276  
 Version No : 1  
 Submitted By : Ms Helen Aaron

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Summary of Changes **Course Activities**

	Current Data	New Data						
Program Affected?		N						
Program Change Form Submitted?								
Subject/Course/Term	MATH 133 <ul style="list-style-type: none"> <li>one term</li> </ul>							
Credit Weight or CEU's	3 credits.							
Course Activities	<ul style="list-style-type: none"> <li>A - Lecture</li> <li>OT - Optional Tutorial</li> </ul>	<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><b>T - Tutorial</b></td> <td>1</td> </tr> </tbody> </table> <p>A schedule type was removed.            Total Hours per Week : 4            Total Number of Weeks : 13</p>	Schedule Type	Hours Per Week	A - Lecture	3	<b>T - Tutorial</b>	1
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A - Lecture	3							
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Course Title	<table border="1"> <tbody> <tr> <td>Course Title on Transcript</td> <td>Linear Algebra and Geometry</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Linear Algebra and Geometry.</td> </tr> </tbody> </table>	Course Title on Transcript	Linear Algebra and Geometry	Course Title on Calendar	Linear Algebra and Geometry.			
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Rationale		<p>Many U0/U1 students find MATH 133 especially challenging and don't perform well in it. This semester the department of Mathematics and Statistics has re-introduced optional tutorials for MATH 133 (for the first time in several years). This by itself should be beneficial for students. Making these tutorials compulsory, however, would provide one additional advantage: it would enable us to schedule quizzes in the tutorials - thus providing students with feedback on their performance several times per semester. We've been using this approach successfully for several years in our introductory Calculus courses. It is our expectation that this change would not affect the credit weight of 3 of MATH 133: MATH 140, another 3 credit course, has been taught for many years with one-hour compulsory weekly tutorials.</p>						
Responsible Instructor								

<b>Course Description</b>	Systems of linear equations, matrices, inverses, determinants; geometric vectors in three dimensions, dot product, cross product, lines and planes; introduction to vector spaces, linear dependence and independence, bases; quadratic loci in two and three dimensions.	
<b>Teaching Dept.</b>	0290 : Mathematics and Statistics	
<b>Administering Faculty/Unit</b>	SC : Faculty of Science	
<b>Prerequisites</b>	Prerequisite: a course in functions	
<b>Corequisites</b>		
<b>Restrictions</b>	<ul style="list-style-type: none"> <li>• Restriction: Not open to students who have taken MATH 221 or CEGEP objective 00UQ or equivalent.</li> <li>• Restriction Note B: Not open to students who have taken or are taking MATH 123, MATH 130 or MATH 131, except by permission of the Department of Mathematics and Statistics.</li> </ul>	
<b>Supplementary Calendar Info</b>		
<b>Additional Course Charges</b>		
<b>Campus</b>		
<b>Projected Enrollment</b>		
<b>Requires Resources Not Currently Available</b>		
<b>Explanation for Required Resources</b>		
<b>Consultation Reports Attached?</b>		
<b>Effective Term of Implementation</b>		201109
<b>File Attachments</b>		No attachments have been saved yet.
<b>To be completed by the Faculty</b>		
<b>For Continuing Education Use</b>		

## 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		<b>Approved</b> Axel W Hundemer  Meeting Date: Oct 18 2010 Approval Date: Oct 19 2010 <a href="#">View Comments</a>					<b>Approved by Department Meeting</b> Created on: Oct 19 2010
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