

## Course Number Change for ATOC 621

Proposal Reference Number : 2061  
 PRN Alias : 10-11#100  
 Version No : 2  
 Submitted By : Prof Frederic Fabry  
 Edited By : Ms Josie D'Amico

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Summary of Changes	<b>Subject/Course/Term, Course Title, Course Description, Administering Faculty/Unit, Prerequisites, Restrictions</b>
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	Current Data	New Data								
Program Affected?		Y								
Program Change Form Submitted?		Y								
Subject/Course/Term	ATOC 621 <ul style="list-style-type: none"> <li>one term</li> </ul>	<b>ATOC 521</b> <ul style="list-style-type: none"> <li><b>one term</b></li> </ul>								
Credit Weight or CEU's	3 credits.	3 credits								
Course Activities	<ul style="list-style-type: none"> <li>A - Lecture</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> </tbody> </table> Total Hours per Week : 3 Total Number of Weeks : 13	Schedule Type	Hours Per Week	A - Lecture	3				
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A - Lecture	3									
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Physical Meteorology 2</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Physical Meteorology 2.</td> </tr> </table>	Course Title on Transcript	Physical Meteorology 2	Course Title on Calendar	Physical Meteorology 2.	<table border="1"> <tr> <td>Course Title on Transcript</td> <td><b>Cloud Physics</b></td> </tr> <tr> <td>Course Title on Calendar</td> <td><b>Cloud Physics</b></td> </tr> </table>	Course Title on Transcript	<b>Cloud Physics</b>	Course Title on Calendar	<b>Cloud Physics</b>
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Rationale		Whereas professional associations recommend to have a full cloud physics course at the undergraduate level; Whereas the existing course (ATOC315 - Water in the Atmosphere) does not satisfy their needs, nor ours; Whereas we have a course at the 600-level targeted at M.Sc./Ph.D. students (ATOC 621) but without previous meteorology background that almost does it all; We have decided to move ATOC 621 to ATOC 521. A review of atmospheric thermodynamics (targeted at the graduate population) was also moved out of ATOC 620. In parallel, prerequisites were added for clarity and to encourage students to take the courses in the right sequence.								
Responsible Instructor										
Course Description	Atmospheric aerosols, nucleation of water and ice. Formation and growth of cloud droplets and ice	<b>Review of dry and moist atmospheric thermodynamics concepts. Atmospheric aerosols,</b>								

	crystals. Initiation of precipitation. Severe storms and hail. Weather modification. Numerical cloud models.	nucleation of water and ice. Formation and growth of cloud droplets and ice crystals. Initiation of precipitation. Severe storms and hail. Weather modification. Numerical cloud models.
Teaching Dept.	0291 : Atmospheric & Oceanic Sciences	0291 : Atmospheric & Oceanic Sciences
Administering Faculty/Unit	GR : Graduate Studies	SC : Faculty of Science
Prerequisites		Prerequisites (Undergraduates): ATOC 315, MATH 314, and MATH 315, or permission of instructor.  Web Registration Blocked? : <input type="text" value="N"/>
Corequisites		
Restrictions		Not open to students who have taken ATOC 621.
Supplementary Calendar Info	1. 2 hours	1. 2 hours
Additional Course Charges		
Campus		Downtown
Projected Enrollment		
Requires Resources Not Currently Available		N
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201109
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

2								Approved by Departmental Chair Edited by: Josie D'Amico on: Nov 16 2010
1			Approved John Richard Gyakum Meeting Date: Nov 10 2010 Approval Date: Nov 11 2010 <a href="#">View Comments</a>					Approved by Departmental Chair Created on: Nov 10 2010