

## Revision for PHYS 340

Proposal Reference Number : 1893  
 PRN Alias : 09-10#846  
 Version No : 2  
 Submitted By : Dr Guy Moore  
 Edited By : Ms Josie D'Amico

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Summary of Changes **Course Description, Prerequisites, Corequisites**

|                                | Current Data  | New Data   |                                |                          |                                   |  |
|--------------------------------|---|--|--------------------------------|--------------------------|-----------------------------------|--|
| Program Affected?              |   | N  |                                |                          |                                   |  |
| Program Change Form Submitted? |   |  |                                |                          |                                   |  |
| Subject/Course/Term            | PHYS 340<br><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> </ul>   |  |                                |                          |                                   |  |
| Course Title                   | <table border="1"> <tr> <td>Course Title on Transcript</td> <td>Majors Electricity &amp; Magnetism</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Majors Electricity and Magnetism.</td> </tr> </table>  | Course Title on Transcript   | Majors Electricity & Magnetism | Course Title on Calendar | Majors Electricity and Magnetism. |  |
| Course Title on Transcript     | Majors Electricity & Magnetism  |  |                                |                          |                                   |  |
| Course Title on Calendar       | Majors Electricity and Magnetism.   |  |                                |                          |                                   |  |
| Rationale                      |   | Adjustment of required mathematics pre/corequisites to more closely reflect what is needed in the course. Also, a minor fine-tuning of the course description to eliminate an incoherent reference.  |                                |                          |                                   |  |
| Responsible Instructor         |   |  |                                |                          |                                   |  |
| Course Description             | The electrostatic field and scalar potential. Dielectric properties of matter. Energy in the electrostatic field. Methods for solving problems in electrostatics. The magnetic field. Induction and inductance. Energy in the magnetic field. Magnetic properties of matter. Maxwell's equations. A vector treatment. | <b>The electrostatic field and scalar potential. Dielectric properties of matter. Energy in the electrostatic field. Methods for solving problems in electrostatics. The magnetic field. Induction and inductance. Energy in the magnetic field. Magnetic properties of matter. Maxwell's equations. The dipole approximation.</b> |                                |                          |                                   |  |
| Teaching Dept.                 | 0293 : Physics  |  |                                |                          |                                   |  |
| Administering Faculty/Unit     | SC : Faculty of Science   |  |                                |                          |                                   |  |
| Prerequisites                  | Prerequisites: CEGEP physics or PHYS 142, MATH 222, MATH 223.   | <b>Prerequisites: CEGEP physics or PHYS 142, MATH 222.</b><br><br><table border="1"> <tr> <td>Web Registration Blocked? :</td> <td>N</td> </tr> </table>   | Web Registration Blocked? :    | N                        |                                   |  |
| Web Registration Blocked? :    | N   |  |                                |                          |                                   |  |

|  |   |  |
|--|---|--|
| Corequisites                               |   | Corequisite: MATH 314<br>Web Registration Blocked? : N |
| Restrictions                               | <ul style="list-style-type: none"> <li>Restriction: Not open to students who have passed PHYS 242 or PHYS 350.</li> </ul> |  |
| Supplementary Calendar Info                | <ol style="list-style-type: none"> <li>Fall</li> <li>3 hours lectures</li> </ol>  |  |
| Additional Course Charges                  |   |  |
| Campus                                     |   |  |
| Projected Enrollment                       |   |  |
| Requires Resources Not Currently Available |   |  |
| Explanation for Required Resources         |   |  |
| Consultation Reports Attached?             |   |  |
| Effective Term of Implementation           |   | 201009   |
| 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<br>Edited by: Josie D'Amico<br>on: Apr 28 2010 |
| 1           |                                   |                      | Approved<br>Charles Gale<br>Meeting Date: Apr 21 2010<br>Approval Date: Apr 22 2010 |               |                           |         |      | Approved by Departmental Chair<br>Created on: Apr 21 2010                     |

|  |  |                               |  |  |  |  |  |
|--|--|-------------------------------|--|--|--|--|--|
|  |  | <a href="#">View Comments</a> |  |  |  |  |  |
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