The University Of Toledo
Undergraduate Program Requirement Revision

Contact Person*: Steven Federman  Phone: 530-2652  (xxx-xxxx) Email: steven.federman@utoledo

Present

Supply all information asked for in this column. (* Supply core, research intensive and transfer module info if applicable)

College*: Coll Nat Sci and Mathematics
Dept/Academic Unit*: Physics
Program Code*: sms-phys-bs
*Program Name: Physics BS

Minimum number of credit hours for completion:

List all courses which comprise the certificate or degree:

MATH 1830 or 1850 or 1920 - Calculus I
MATH 1840 or 1860 or 1930 - Calculus II
MATH 2850 or 2950 - Multivariable Calculus

Identify term offered (summer/fall/spring):

Identify delivery method (Online/in class/off campus):

Proposed Effective Term*: 201240  e.g. 201140 for 2011 Fall

Program Approval:
Department Chairperson:  Date
College Curriculum Authority or Chair:  Date
College Dean:  Date
Faculty Senate Academic Program Committee:  Date
Office of the Provost :  Date

Submit Program Requirement Revision

Proposed

Fill in appropriate blanks only where entry differs from first column.

College:  Select a College
Dept/Academic Unit:  Select a Department
Program Code:
Program Name
Minimum number of credit hours for completion:

List all courses which comprise the certificate or degree:

MATH 1830 or 1850 or 1920 - Calculus I
MATH 1840 or 1860 or 1930 - Calculus II
MATH 2850 or 2950 - Multivariable Calculus

Identify term offered (summer/fall/spring):

Identify delivery method (Online/in class/off campus):

Administrative Use Only

Effective Date:  
CIP Code:  
Subsidy Taxonomy:  
Program Code:  
Instructional Level:  

3/12/2012
The University Of Toledo

PROGRAM REQUIREMENT REVISION

Please list the proposed program structure. Attach additional pages as necessary.

**College:** NSM  
**Dept/Academic Unit:** Physics and Astronomy  
**Contact Person:** Steven Federman  
**Phone:** x2652  
**Email:** steven.federman@utoledo.edu

**Program Name:** Physics BS

**Program Level:** Undergraduate

**Changes and Reason for Changes (Less than 1500 words or 5000 bytes):**  
The primary reason for the changes is the new credit requirements of the College of Natural Sciences and Mathematics, which raises the required major & related credits to 64 for a BS degree.

The specific changes include:
- Increasing the number of required credits for courses in related fields within NSM from 23 to 30
**Program: Physics B.S.**

**Related Non-P&A Courses**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1830 or 1850 or 1920 – Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1840 or 1860 or 1930 – Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2850 or 2950 – Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1890 or 2890 – Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3820 or 3860 – Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>CHEM1230 – General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM1280 – General Chemistry Lab I</td>
<td>1</td>
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*Other NSM Courses (new)*

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Total</td>
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