PHYS&221 - Engineering Physics I

Document Type: Master Course Outline
Proposal Type: Revision
Requester(s): Rick A Downs  Elizabeth Schoene
College: South
Origination Approved: 05/22/2016 - 8:22 AM

BASIC INFORMATION

Requester(s): Rick A Downs
Elizabeth Schoene
College: South Seattle College
Division/Dept: Academic Programs
Dean: JC Clapp
Peer Reviewer(s): Sean Rogers

COURSE INFORMATION

Proposed Course Number:
Prefix: PHYS&  Number: 221
☑ Request a new Prefix
☑ This will be a common course

Full Title: Engineering Physics I
Abbreviated Title: Engineering Physics I

Catalog Course Description:
Calculus-based study of kinematics, Newton's Laws of Motion, dynamics, energy, and momentum in linear and rotational coordinates. Lab included.

Course Length: 11 Weeks
☑ Request an Exception

Topical Outline:
Major topics are listed below. Additional details are available in the College Supplemental MCO file for each campus.
- Units and Measurement
- Kinematics in 1-Dimension
- Vector Quantities and Operations
- Kinematics in 1 and 2 Dimensions
- Newton's Laws of Motion
- Circular Motion and Applications of Newton's Laws
- Work and Kinetic Energy
- Potential Energy and Energy Conservation
- Momentum, Impulse, and Collisions
- Rotation of Rigid Bodies
- Dynamics of Rotational Motion
• Static Equilibrium
• Gravitation

COURSE CODING

Funding Source: 1..................State
Institutional Intent: 11...............Academic Transfer

Select the Distribution Area of the AA Degree that this course will satisfy, if applicable:

Distribution Areas

Natural World

Will this course transfer to a 4-year university?  Yes

Please Describe:
This class transfers as Engineering Physics I. It transfers to the University of Washington as PHYS 121.

Is this course designed for Limited English Proficiency?  No
Is this course designed for Academic Disadvantaged?  No
Does this course have a Workplace Training component?  No

CIP Code: 40.0801  Request Specific CIP Code

Credits:
Will this course be offered as Variable Credit?  No

List Course Contact Hours

<table>
<thead>
<tr>
<th>Activity</th>
<th>Contact Hours</th>
<th>Credit</th>
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<tr>
<td>Lecture</td>
<td>33</td>
<td>1</td>
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<tr>
<td>Lab</td>
<td>44</td>
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<tr>
<td>Clinical Work</td>
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<td>Other</td>
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<tr>
<td>Total Credits</td>
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This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

<table>
<thead>
<tr>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>Rick A Downs</td>
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<td>4/21/2016</td>
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<tr>
<td>Elizabeth Schoene</td>
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<td>4/21/2016</td>
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Dean:

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<th>Name</th>
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<tr>
<td>JC Clapp</td>
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Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

- [X] Recommended for approval
- [ ] Not recommended for approval

Chairman, Curriculum Coordinating Council:

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mary Beans</td>
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Vice President for Instruction:

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<tr>
<td>Peter Lortz</td>
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