BASIC INFORMATION

Requester(s): Elizabeth Schoene

College: South Seattle College

Division/Dept: Academic Programs

Dean: Laura Kingston

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
This class transfers as Engineering Physics I. Transfers to the University of Washington as PHYS 121

Please Describe:
This class transfers as Engineering Physics I. 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

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

List Course Contact Hours
Lecture (11 Contact Hours : 1 Credit) 33
Lab (22 Contact Hours : 1 Credit) 44
Clinical Work (33 Contact Hours : 1 Credit) 0
Other (55 Contact Hours : 1 Credit) 0

Total Contact Hours 77
Total Credits 5
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:

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<tbody>
<tr>
<td>Elizabeth Schoene</td>
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<td>10/9/2015</td>
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Dean:

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Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

- [ ] Recommended for approval
- [ ] Not recommended for approval
- [X] This course has not yet reached Committee Review

Chairman, Curriculum Coordinating Council:

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Vice President for Instruction:

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