BASIC INFORMATION

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

COURSE INFORMATION

Proposed Course Number: PHYS& 223  
Request a new Prefix  
This will be a common course

Full Title: Engineering Physics III  
Abbreviated Title: Engineering Physics III

Catalog Course Description: Intro to waves and oscillations and the study of sound, geometric and physical optics. Covers the dualistic particle-wave nature of microscopic phenomena as an intro to modern physics. Lab included.

Course Length: 11 Weeks  
Request an Exception

Course Prerequisite(s): PHYS& 222 with a 2.0 or higher and MATH& 152 with a 2.0 or higher.

Topical Outline:
- Oscillatory Motion
- Mechanical Waves
- Sound
- Superposition and Standing Waves
- Maxwell's Equations and Electromagnetic Waves
- The Nature and Propagation of Light as Rays
- Geometric Optics and Image Formation
- Wave Optics, Interference and Diffraction
- Modern Physics
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:

Transfers as Engineering Physics III
Transfers to UW as PHYS 123.

**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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<tr>
<td>Rick A Downs</td>
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| Elizabeth Schoene | Elizabeth Schoene | 1/1/0001 |}

Dean:

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<td>Laura Kingston</td>
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**Results of SSCC Curriculum Coordinating Council Findings**

**Participating Faculty Response and Remarks**

- Recommended for approval
- Not recommended for approval

Chairman, Curriculum Coordinating Council:

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| Diane Schmidt | Diane Schmidt | 6/10/2014 |}

Vice President for Instruction:

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<td>Donna Miller-Parker</td>
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