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:
Prefix: PHYS&  Number: 222

☐ Request a new Prefix
☑ This will be a common course

Full Title: Engineering Physics II
Abbreviated Title: Engineering Physics II

Catalog Course Description:
Covers Maxwell's classical laws of electricity and magnetism which developed from the study of the Laws of Coulomb, Ampere, Gauss and Faraday. Lab included.

Course Length: 11 Weeks  ☐ Request an Exception

Course Prerequisite(s):
PHYS& 221 with a 2.0 or higher and MATH& 152 with a 2.0 or higher.

Topical Outline:
Major topics are listed below. Additional details are available in the College Supplemental MCO file for each campus.

- Electric Charge and Electric Field
- Gauss's Law
- Electric Potential
- Capacitance and Dielectrics
- Current, Resistance and Electromotive Force
- DC Circuits
- Magnetic Fields and Forces
- Sources of Magnetic Fields
- Electromagnetic Induction
Inductance and AC circuits

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 course transfers as Engineering Physics II
Transfer to UW as PHYS 122

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>
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<tbody>
<tr>
<td>Rick A Downs</td>
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<td>Elizabeth Schoene</td>
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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

[X] Recommended for approval

Not recommended for approval

Chairman, Curriculum Coordinating Council:

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<tr>
<td>Diane Schmidt</td>
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Vice President for Instruction:

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<td>Donna Miller-Parker</td>
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