



Central  
North  
South  
SVI

## PHYS&222 - Engineering Physics II

Document Type: Master Course Outline  
Proposal Type: Revision  
Requester(s): Rick A Downs Elizabeth Schoene  
College: South  
Origination Approved: 06/11/2014 - 10:06 AM

### 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  Request Specific CIP Code

**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:

Rick A Downs

Print Name

*Rick A Downs*

Signature

1/1/0001

Date

Elizabeth Schoene

Print Name

*Elizabeth Schoene*

Signature

1/1/0001

Date

Dean:

Laura Kingston

Print Name

*Laura Kingston*

Signature

5/30/2014

Date

### Results of SSCC Curriculum Coordinating Council Findings

#### Participating Faculty Response and Remarks

Recommended for approval

Not recommended for approval

Chairman, Curriculum Coordinating Council:

Diane Schmidt

Print Name

*Diane Schmidt*

Signature

6/10/2014

Date

Vice President for Instruction:

Donna Miller-Parker

Print Name

*Donna Miller-Parker*

Signature

6/11/2014

Date