



PHYS&223 - Engineering Physics III

Document Type: Master Course Outline
Proposal Type: Revision
Requester(s): Rick A Downs Elizabeth Schoene
College: South
Origination Approved: 06/11/2014 - 10:08 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: **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:

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

- 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

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