



PHYS&221 - Engineering Physics I

Document Type: Master Course Outline
Proposal Type: Revision
Requester(s): Rick A Downs Elizabeth Schoene
College: South
Origination Approved: 05/22/2016 - 8:22 AM

BASIC INFORMATION

Requester(s): Rick A Downs
Elizabeth Schoene

College: South Seattle College

Division/Dept: Academic Programs

Dean: JC Clapp

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**

Please Describe:
 This class transfers as Engineering Physics I.
 It 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 Request Specific CIP Code

Credits:

Will this course be offered as Variable Credit? No
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

4/21/2016

Date

Elizabeth Schoene

Print Name

Elizabeth Schoene

Signature

4/21/2016

Date

Dean:

JC Clapp

Print Name

JC Clapp

Signature

4/26/2016

Date

Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

Recommended for approval

Not recommended for approval

Chairman, Curriculum Coordinating Council:

Mary Beans

Print Name

Mary Beans

Signature

5/12/2016

Date

Vice President for Instruction:

Peter Lortz

Print Name

Peter Lortz

Signature

5/22/2016

Date