ENGR&214 - Statics

BASIC INFORMATION
Requester(s): Dennis Schaffer
College: North Seattle College
Division/Dept: Math / Science
Dean: Alissa D Agnello
Peer Reviewer(s): Rainer Heller
Francois B. Lepeintre

COURSE INFORMATION
Proposed Course Number:
Prefix: ENGR&  Number: 214
- Request a new Prefix
- This will be a common course

Full Title: Statics
Abbreviated Title: Statics

Catalog Course Description:
Covers force and moment systems, equilibrium principles for particles and rigid bodies, analysis by vector algebra of two- and three-dimensional structures, frames, machines, trusses and beams. Includes analysis of internal forces, friction, centroids, and moment of inertia. Prereq: MATH& 152 and PHYS& 221.

Course Length: 11 Weeks
- Request an Exception

Topical Outline:
I. Basic concepts
   A. Review of vector algebra
   B. Forces, moments, couples
   C. Resultants of various force systems
   D. Distributed Loads
II. Equilibrium
   A. Particle
   B. Rigid Body
III. Trusses, Frames, and Machines
   A. Method of joints
   B. Method of sections
C. disassembly method

IV. Beams
   A. Shear and moment equations
   B. Shear and moment diagrams

V. Friction

VI. Geometric Properties of an Area
   A. First moment (centroid)
   B. Second moment (moment of inertia)
   C. Transfer theorem (parallel axis theorem)
   D. Composite areas

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:
(No Distribution Areas Selected)

Will this course transfer to a 4-year university? Yes

Please Describe:
Transfers to the University of Washington as AA 210 (4), 2XX (1)

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: 14.0101

Credits:
Will this course be offered as Variable Credit? No

List Course Contact Hours

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<th>Hours</th>
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<td>Lab (22 Contact Hours : 1 Credit)</td>
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<td>Clinical Work (33 Contact Hours : 1 Credit)</td>
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<td>Total Credits</td>
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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>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>Dennis Schaffer</td>
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<td>1/1/0001</td>
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Dean:

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<tbody>
<tr>
<td>Alissa D Agnello</td>
<td></td>
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Results of NSCC Curriculum and Academic Standards Committee Findings

Participating Faculty Response and Remarks

- [x] Recommended for approval
- [ ] Not recommended for approval

Chairman, Curriculum and Academic Standards Committee:

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<tr>
<td>Denise G Brannan</td>
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Vice President for Instruction:

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<tr>
<td>Kristen A Jones</td>
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