SRU205 RECORD ADDED CURRICULUM UPDATE *W* 0-A A 210 SEARCH QTR:AUT/2012 12/05/12 11:25 ACTION: F (A=ADD C=CHG D=DEL F=FIND N=NXT P=PRIOR 2=PAGE2) LAST UPDATE: 12/05/12 EFFECTIVE QTR/YEAR: WIN/2013-AUT/9999 BRANCH:0 Seattle SHRT TITLE: ENGR STATICS COLLEGE: J ENGR LONG TITLE: ENGINEERING STATICS ADDED:03/15/1999 CHANGED:12/05/2012 APPR DL:_/_/ DROPPED:_/_/ QTR CREDITS: 4.0 - ____ CRDT CONTROL:1 MAX REPEAT CREDITS:_ CRDT CONTROL:1 MAX REPEAT CREDITS: EXEMPT: GENERAL EDUCATION: RSPNSBL COURSE: -GRADE SYSTEM:_ HONORS:_ JOINT COURSES: -____ VLPA :_ INDIV&SOC : DEDUCTIBLE: SUMMER ONLY:_ NAT. WORLD: \overline{Y} OMIT FROM TS: FROM CAT: ELECTIVE : INDEPNDINT STDY: QUANT/S.R.: DUPL ENROLL: ENGL. COMP: DUPL ENROLL: FEE USE CD: _ FEE INFO: TYPE: _ \$___. COURSE IS LAST OF HYPHENATED:

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University Curriculum Office (UWCR)

From:

UWCR <uwcr@u.washington.edu>

Sent:

Wednesday, December 05, 2012 11:11 AM

To:

uwcr@u.washington.edu

Subject:

A prerequisite change request has arrived

Timestamp: 2012-12-05 11:11:28 PST

Name: Marlo Anderson

Email: marlo@aa.washington.edu

Course: A A 210

Current Pre-req: MATH 126 or Math 136; PHYS 121.

New Pre-req: either 2.0 in MATH 126 or 2.0 in MATH 136 and 2.0 in PHYS 121.

Cancellation: Yes Restrict repeats?: Yes Minimum Grade: 2.0 Quarter: WIN/2013

Reason: We were under the impression that this was already in place. The course is overloaded and we need to ensure

that qualified students are able to get into this course.

Comments: The course has been overloaded during the past two academic years. This is also the first course for preengineering students and we need to ensure that students are success adequately prepared to allow them to continue with

the remaining engineering fundamentals.

COURSE CHANGE APPLICATION

JUN 1 6 2009 CURRICULUM REVIEW

For Office Use Only:	
Prefix (new if changing, 000 6 characters max.)	Number (new if changing
AA	210

University of Washington Curriculum Review Committee

·						
Co	Department Engineering Aeronautics and A	Astronautics	Date	May 20, 2009		
	ourse Title (list existing title or new title if changing ngineering Statics	g)	Credit	s (list existing credits of 4	r new credits	if changing)
1.	PURPOSE OF REQUEST (Check all that a					
	■ Permanent change, to be effective Autur ☐ Temporary change, to be effective		Quarter 20			
_	Temporary change, to be checkive	OLD (CURRENT) DATA		NEW DATA		
	☐ Change prefix and/or number					
	☐ Change course title *					
	Change abbreviated title (19 spaces max.) *(Must be changed if changing course title, type in CAPS)					
	☐ Change credits					
	☐ Change prerequisites ■ Enforce prerequisite cancellation				75	
	 □ Add joint status ■ Change course description □ Change to permanent CR/NC only □ Change contact hours □ Drop course 	☐ Drop perman ☐ Allow course	s of Knowledge (<u>or</u> ent CR/NC only to be offered with	nly if changing course	um attached	
	Attach a course syllabus/outline and readi	ing list if requesting an increase in	course level or cre	edits or a substantial c	hange in cor	itent.
2.	JUSTIFICATION and CONTACT INFORMA Explain why this change is being proposed, course. Please list contact information for i	including its relationship to vo	ur overall curricu plication. (Attach	lum and what comes additional sheet if n	before and ecessary.)	l after the
	This course change application is being requer per quarter required in this course. There is	uested by the College of Engin s no documentation that defines	eering in order for s how the contact	or us to define the tot hours have been all	al number of ocated. (se	of contact le attached)
	The number of contact hours for the course course will no longer be offered in spring q	will be 3 one hour lecture sess uarter. The autumn and winter	ions and a 1 one lecture lass size has be	hour quiz session pe en increased to com	r week. In pensate.	addition, th
٦	Contact Name: Adam Bruckner	Phone: 206-543-6143	Email: Bruckner@aa.	washington.edu	Box #: 35	2400
CI	CATALOG DATA/COURSE DESCRIPTION OF CATALOG DATA/COURSE	categories DVLPA DI&S	nanged. Must be ■ NW □ QSR	e double spaced.)	ltants, free	body
0	diagrams, internal forces, and friction. A	analysis of basic structural a	nd machine sys	tems and compone	ents. Prere	equisites:
6	either MATH 126, MATH 129, or MAT	H 136; PHYS 121.				
2	Optional Catalog information (include only if y					
	Names and ranks of probable instructors (Include	e curriculum vitae for any instructor	I HOLHOW ON THE UN	iversity faculty)		
1	Quarter(s) offered (A, W, Sp, S) A,W,S			1		

How will students be evaluated for credit or grades? Provide specific information on assignments, projects, exams, etc. and relative % for each area. Homework 25% Mid-Term 35% Final 40% STUDENTS (Complete only if changed) Anticipated enrollment per quarter: 195	CREDITS AND HOUR						
Lecture 3 Laboratory Chair Studio Caute section 1 Studio Cher Cher Contract Notice 1 Studio Seminar Other Cher Contract Notice 1 Studio Seminar Other Cher Contract Notice 1 Studio Seminar Notice 1 S		s: 1 credit represents a total t	ime commitm	nent of 3 hours	per week of student	effort.	
Quitz section	Table 1	Laboratory					
Seminar **Attach any publication and justification for "other" contact hours. **TOTAL WEEKLY CONTACT HOURS: **At variable credit, how will be subclast be expected to spend **TOTAL WEEKLY CONTACT AND OUTSIDE HOURS: **It variable credit, how will the number of credits awarded be related to the amount of student effort required? **It variable credit, how will students be evaluated for credits awarded be related to the amount of student effort required? **It variable credit, how will the number of credits awarded be related to the amount of student effort required? **It variable credit, how will the number of credits awarded be related to the amount of student effort required? **It variable credit, how will the number of credits awarded be related to the amount of student effort required? **It variable credit, how will students be evaluated for credit or grades? Provide specific information on assignments, projects, exams, etc. and relative % for each area. **Homework 25%** Mid-1 erm 35%* Final 40%* **STUDENTS (Complete only if changed)** **It variable enrollment per quarter:	- 1000000000000000000000000000000000000	5.00 (550) (550) (550) (550) (550)	====				
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Chair/Director of submitting department/upit College Curriculum Committee Date 5/22	Name of unit	Signature of dean	/chair/directo	or	The state of the s	disapproval	Date
	APPROVAL Chair/Director of submitting d	epartment/upip	Hanc		nskni		Date 5 2 7
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College Dean/Vice Chancellor Sed - Xulu - 6-3-09		11 1000	20	,	C_,		

THE DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS

AA 210 STATICS

AUTUMN, WINTER AND SUMMER QUARTERS

CATALOG DATA:

ENGINEERING STATICS, 4 credits

Vector analysis applies to equilibrium of rigid body systems and subsystems. Force and moment resultants, free body diagrams, internal forces, and friction. Analysis of basic structural and machine systems and components. Prerequisites:

either MATH 126, MATH 129, or MATH 136, PHYS 121.

PREREQUISITES BY TOPIC:

Calculus and Physics

TEXTBOOK:

Bedford, Anthony M. and Fowler, Wallace, Engineering Mechanics Statics and

Dynamics, 4th Edition

REFERENCES:

None

OBJECTIVES:

- 1) To reinforce concepts of vectors and vector operations as they apply to statics.
- 2) To give students experience in applying the basic principles of force and moment equilibrium to a broad spectrum of engineering problems.
- 3) To introduce students to an organized approach to problem formulation and solution in engineering.

OUTCOMES:

- 1) Students will understand basic concepts of vectors and vector operations and be able to apply these tools to the analysis of forces and torques acting on a body.
- 2) Students will be able to formulate and solve a system of equations for the forces and torques necessary to maintain equilibrium of various 2D and 3D systems by applying Newton's First and Third Laws.
- 3) Students will gain experience with the concept of the centroid and moments of inertia.
- 4) Students will develop Confidence in analyzing the internal forces and moments acting throughout a given structure.
- 5) Students will be able to analyze the behavior of simple systems involving static and kinetic friction.

TOPICS:

- 1) Overview of statics. Vectors: addition, components, dot product
- 2) Type of forces; equilibrium; free-body diagrams.
- 3) Forces and moments; moment as cross-product; couples; equivalent systems of forces.
- 4) Equilibrium of supported bodies; types of supports; 2-D and 3-D applications.
- 5) Analysis of common structures tresses and frames.
- 6) Centers of mass; distributed forces.
- 7) Moments of inertia; applications of theorems for computation.
- 8) Internal forces; shear and bending moments.

CLASS SCHEDULE: Three 50 minute lectures per week and one 50 minute quiz section.

THE DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS

LABORATORY PROJECTS: None

COMPUTER USAGE:

None

PROFESSIONAL COMPONENT:

RELATIONSHIP TO PROGRAM OUTCOMES:

A) Graduates will demonstrate a solid mastery of fundamentals in *aerospace* engineering disciplines: structures.

B) Graduates will have a combination of analytical, computational, and experimental skills.

RELATIONSHIP TO ABET OUTCOMES:

a) An ability to apply knowledge of mathematics, science, and engineering.

e) An ability to identify, formulate and solve engineering problems.

k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

COORDINATOR:

Keith Holsapple, Professor of Aeronautics and Astronautics

PREPARED BY:

Undergraduate Committee, 4/2000, Carl Knowlen, Research Scientist 1/2007

Adam Bruckner, 5/22/2009

ASSESSMENT:

1) Homework

25%

2) Mid-Term

35%

3) Final Exam

40%

^{*} Subject to change.

UNIVERSITY OF WASHINGTON CURRICULUM BOARD

COURSE CHANGE APPLICATION

ENGR 180

New course profix and number Engineering 2/16/71 Department, School, or College_ RESTRICTIONS: Courses changed with this form do not become new courses, and students taking the original and the changed courses will not receive credit for both. If it is desired that students receive credit for both the original course and the changed course, the original should be dropped with this form and the new course applied for on the NEW COURSE APPLICATION form, or a maximum number of credits for this course should be specified below. APPLICATION FOR: (Check as many boxes as are appropriate.) ____Quarter 19_ 竹 Change of title a. Old title Statics List new title in 2, a. Engr. Statics b. New abbreviated title for transcripts. Not to exceed 19 characters, including spaces Increasing course number to higher level. Old prefix and number. CX Other change of number. Old prefix and number. GE 112 List new prefix, number, Increasing credits by more than 1 credit. Old credits... and/or credits in 2. b. TO Other change of credit. Old credits. 3. M Other (specify) Course description change Course to be dropped. Detail on other side of this form 1. JUSTIFICATION FOR THIS ACTION: Change prefix and number to fit new College curriculum in the technical breadth area. Addition of vectors and more detailed course description. 2. CATALOG DATA: Engineering Statics b. Course prefix and number FNGR 180Credits _4 e.g., CMU 200 c. In undergraduate courses it is customary to allow a maximum of 1 credit for each hour of lecture or quiz session a week and 1 credit for each two hours of laboratory work a week. Departures from this procedure must be justified. 3. IS THIS A JOINT COURSE? -□X No Yes a. Other Department, School, or College..... b. Course prefix and number in that unit... Signature of Chairman of that unit_ 4. SCHEDULING: (An approved change will not appear in the Time Schedule until appropriate Time Schedule forms are completed by the Alexander Rank Assoc. Prof. a. Name of faculty member in charge of course... b. Change is to take effect Autumn Quarter 19_71. 5. OTHER COLLEGES, SCHOOLS, OR DEPARTMENTS AFFECTED: (If this course covers areas also covered by other units in the University, it is essential that this application be reviewed by those units and that agreement to the course change by those units indicated by signatures below.) Signature of Dean or Chairman Name of unit(s) Comments Date

College Curriculum Committee.

University Curriculum Board...

APPROVAL: Chairman_

ENGR 180 VECTORS: XXFMRICS (4) Engineering Statics

Principles of statics, basic concepts, parallelogram law, Newton's law, resultants, force-couple relationships, equilibrium diagrams, equilibrium analysis, three-dimensional structures, two-dimensional frames, trusses, friction, and virtual work. Vector algebra used throughout the course.

3/14/18

UNIVERSITY OF WASHINGTON CURRICULUM BOARD COURSE CHANGE APPLICATION

	Prei	łж				Number
9	E	N	G	R		
	Join	l Cour	se Pref	ix and	Nu.	mber
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	AFFROVED	Joint Course Prefix and Number MAR 23 77
College or School Engineer	ing Department Engineerin	
Applications for major change in co	ourse content should be submitted on a NEW CO	URSE APPLICATION form.
XJPermanent change, to be effective in the property change, to be effective in the property change.	ro Fall Quarter 19 78 e Quarter 19	through Quarter 19
1. JUSTIFICATION FOR THIS ACTIO	ON AND ANTICIPATED IMPACT (continue on sep	arate sheet if necessary):
 Add pre-requisit Change from fres See attachment 	es of Math 126, Physics 121, hman 100 level to sophomore 200	level
If an increase in credit or course leve	this requested, attach a justification and description of a	dditions or chánges in content :
2. CATALOG DATA:		
	OLD (complete all items)	NEW (complete only changed items)
Prefix and number*	ENGR 180	ENGR 210
Title	Engineering Statics	
Abbreviated title (19 spaces)	Engr Statics	
Credits	4	
See reverse side) It is customary to allow a maximul follow this rule, please attach a state.	☐ Change to permanent CR/NC only ☐ Drop permanent CR/NC only ☐ I May be repeated for credit m of 1 credit for each 3 hours of total student efforment of justification.	* New number at top of page
b. Course prefix and number in	t course complete this section): or administration of the course or other unit(s) or unit(s)	<u> </u>
☐ Change to joint status	☐Drop joint status ☐☐Joint status re	mains the same
 OTHER COLLEGES, SCHOOLS, Of It this course includes subject mat tion for review by those units. If the delay action on this application 	OR DEPARTMENTS AFFECTED: ter currently dealt with by other University units, the is is not done, the college curriculum committee or t	Recommend Recommend
Name of unit	Signature of Dean or Chairman	approval disapproval* Date
		* Please attach explanations
5. APPROVAL:		Date -2 /2 /-7 \$
Chairman	KJ Gardel	2/1/108
College Curriculum Committee	K J yfeller	9//4//0

COMPLETE OTHER SIDE OF THIS FORM IF COURSE DESCRIPTION IS CHANGED

Gu

College Dean_

Graduate School Dean_____

University Curriculum Board.....

COMPLETE THIS SECTION ONLY IF COURSE DESCRIPTION IS CHANGED

CATALOG DATA:

Course ENGR prefix 180 210	Course titleEngineering Statics
Credits Quarter(s) 4 AWS	offered (A, W, Sp, and/or S)
Permanent CR/NC only Last name(s) of instructor(s):	
Alexander	UX*
New General Catalog description (pleas	se double space): * Check here if to be included in General Catalog
Principles of statics, basis	c concepts, parallelogram law, Newton's law, resultants,
force-couple relationships,	equilibrium diagrams, equilibrium analysis, threedimensional frames, trusses, beams, and friction. Vector
algebra used throughout the	course. Graphics background recommended:
Prerequisites: Math 126, Phys	121; apphics a vice mmended.
Desirable preparation or prerequisites t 300- or 400-level courses):	o be included in General Catalog description (normally required for
Math 126 Physis 161. Gra	phics recommended

Abbreviated title for transcripts (not to exceed 19 characters, including spaces)

Former General Catalog description:

12/2/8

COURSE CHANGE APPLICATION DPRODUCTION JUN 29

Pref	íx.				Number
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Joint	Cour	se Pre	fixar	d Nu	mber
بهرتا	۷		<u></u>		

College or SchoolENGR	Department ENGR		
Applications for major change in (course content should be submitted on a NEW (COURSE APPLICATION form.	
Permanent change, to be effect	iveQuarter 19	<u></u> ·	
	ive Fall Quarter 19.78	-	
Spr. 1978, the cou the change from Fa	ion and anticipated impact (continue on surse number was changed to 210. 111 1978 to Wtr 1979. The timi registering for Fall have signe	This request is to delaying on the change was such	у .
If an increase in credit or course lig-	rel ls requested, attach a justification and description of	additions or changes in content	
CATALOG DATA:		:	
, 	OLD (complete all items)	NEW (complete only changed item	ns)
·	(6.1-1-1)		
Prefix and number*	(Engr 210	180)	
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Abbreviated the (10 array)		(76. <u></u>	(00'
Abbreviated title (19 spaces)			· · · · · · · · · · · · · · · · · · ·
Credits	(lig in course	descr x preg.)	
☐ New prerequisites	☐ Change to permanent CR/NC only	* November at the of page	
New course description	Top permanent CR/NC only	* New number at top of page	
(See reverse side)	May be repeated for credit	☐ Drop course	
a. University unit responsible f b. Course prefix and number i	or tourse complete this section): or administration of the course n other unit(s) nat unit(s)		
[!Change to joint status		emains the same	
OTHER COLLEGES, SCHOOLS, if this course includes subject mation for review by those units. If the delay action on this application. Name of unit	OR DEPARTMENTS AFFECTED: ther currently dealt with by other University units, it his is not done, the college curriculum committee or Signature of Dean or Chairman	ne originating department should circulate the University Curriculum Board will do so. Recommend Recommend approval disapproval	nis applica- which may Date
- Mr.		* Please attach explanations	
APPROVAL:		Date.	,
Chairman 7207110	realthay	6//	6/78
College Curriculum Committee	K. J. galil	6/21	178
Conege Conticulari Continuite	gaild	6/2	1/78
College Dean K. J.			<u>• - - -</u>
Graduate School Dean			
University Curriculum Board_			

Em

COMPLETE THIS SECTION ONLY IF COURSE DESCRIPTION IS CHANGED

CATALOG DATA:

Former General Catalog description:

	Course title	
and No Credits	Quarter(s) offered (A, W, Sp, and/or S)	
	NC anh	
 Permanent CR/. Last name(s) of in 		
New General Cata	log description (please double space): * Check here if to be include	d in General Calalog
	.	
Desirable prepara 300- or 400-tevel	tion or prerequisites to be included in General Catalog description (normally required courses):	for

University of Washington Curriculum Review Committee COURSE CHANGE APPLICATION

1124/96 20165/1

Prefix (5 characters max.)	New number
ENGR	210
Offered jointly with:	
Prefix (5 characters max.)	New number

		<u>t. </u>	
College or School Departm College of Engineering	ent Subde	partment	Date 11-29-95
Course Title			Credits
Engineering Statics			4
1. PURPOSE OF REQUEST (Check all that appl	Y)		
☐ Permanent change, to be effective ####################################	Quarter 19 96 Quarter 19 through	Quarter 19	•
	CURRENT DATA	NEW D	
☐ Change prefix and/or number			
☐ Change course title			
☐ Change abbreviated title (19 spaces max.)			
☐ Change credits			
☐ Change prerequisites			
☐ Change joint status	☐ Change catalog data	· · · · · · · · · · · · · · · · · · ·	
Change contact hours	Change resource requirements		
☐ Change to permanent CR/NC only ☐ Drop course	☐ Drop permanent CR/NC only		
Attach a course outline and reading list i	f requesting an increase in course level	or credits, or a r	substantial change in content.
2. JUSTIFICATION		:	
Explain why this change is being proposed, incl	uding the relationship of this course to yo	our overall curricu	ılum.
(Attach additional sheet if necessary.)	- ,		
Revised description more accura	tely describes the course o	content.	
•		•	
		:	
		:	
. CATALOG DATA (Complete only if changed)		<u>.</u>	
New catalog description (please double space)			
(50-word limit, including prerequisites and "Offe	ered Jointly with XXX 100" if applicable)		
		:	
Vector analysis appli	ed to equilibrium of rigid	body system	s and subsystems.
Force and moment resultants, from	ee body diagrams, internal	forces, and	friction.
Analysis of basic structural and	d machine systems and compo	nents, Pre	requisites:
MATH 126 PHYS 121 recommended	: graphics background. Отте	rea: Awsps.	
and		:	
		•	
Catalog subheading (if any) for this course with Names and ranks of probable instructors (Includ	in your department	now on the Univ	projety forculary
isomes and taling of Stonable mediacross (method	- commendent river for any manuactor not	HOW OIL THE OHIVE	
Quarter(s) offered (A, W, Sp. S) AWSDS	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	☐ Include in General Catalog ☐ Include in General Catalog
Anatherial Attended (Literations of The Literation	· ···· · · · · · · · · · · · · · · · ·		TO MICHAGE IN DESIGNATION CANADON

4. CREDITS AND HOURS (Con						٠.	
a. Contact and outside hours:	1 credit represents a to	tal time com	imitment of 3 h	ours per week of stude	ent effort.		
Contact hours per week		<u> </u>					Г
Lecture	Laboratory	•					ĺ
Quiz section	Studio						
Seminar	Other*	•				1	ĺ
	nd justification for "ot				TOTAL CONTACT H	IOURS:	ĺ
How many additional hours		ted to spend	:				
each week in preparation fo	r this course:		***	TAL WEEKIY COM	OUTSIDE H FACT AND OUTSIDE H		
b. If variable credit, how will t	he number of credits aw	arded be rela	sted to the amo	unt of student effort s	equired?	iouks:	
c. How will students be evalua	ted for credit or grades	?					
STUDENTS (Complete only if	ohanwad\						
a. Anticipated enrollment per							
b. Types of students expected	(undergraduate majors,	nugetätagna	te non-majors, i	graduate or profession	al students):		
JOINT COURSE List all departments, schools, or (If units from more than one so Name of unit List the unit responsible for	r colleges participating. hool or college participa Course prefix	Joint course ite, a separat Add joint	applications requested application must brop joint	ust be filed by each.)			
ministering the course first)	and number	stetus	status	318	nature of chair		····
	<u> </u>		 				
		 	 	······································			—
OTHER COLLEGES, SCHOOL If this course includes subject m for review by those units and ob	atter currently dealt wit	h by any othe	er University uni	its, the originating dep ailure to do so will del	artment must circulate t ay action on this applica	his appli	cati
Name of unit	Signature o	of dean or th	ızir	Recommend approval	Recommed disapproval (attach explanation)	Date	;
							
			·		 		
							
APPROVAL							
	MALON A.				Date		
Chair of submitting department					12/9/95	_	
College Curriculum Committee	Juni Late	Com	-11		12/15/95		
	7 0 0	-	- / \	<u></u>			
College Dean Dortoth	y a Reedil	Λ			12/15/95	,	

University of Washington



Prefix (6 characters max.)	Number
A A	210
Offered Jointly with:	

Curriculum Review Committee		Offered jointly with:	210
OURSE CHANGE APPLICATE		Prefix (6 characters max.)	Number
	fuerer a limber	Total (o president Max.)	Number
ollege or School Department		······································	Date
College of Engineering Depa	rtment of Aeronautics and Astronautics		12/7/98
ourse Title Engineering Statics	•		Credits 4
PURPOSE OF REQUEST (Check all that	t apply)		
XX Permanent change, to be effective AUTU	MN Quarter 19 99 Quarter 19 Quarter 19 Quarter 19		•
	CURRENT DATA	NEW DATA	
XX Change prefix and/or number	ENGR 210	A A 210	
☐ Change course title			
☐ Change abbreviated title (19 spaces max.)			
☐ Change credits			
☐ Change prerequisites			
☐ Change Joint status ☐ Change contact hours ☐ Change to permanent CR/NC onty ☐ Drop course	☐ Change catalog data ☐ Change resource requirements ☐ Drop permanent CR/NC only		
Attach a course outline and reading	Het If requesting an increase in course level or credi	: 	
(Attach additional sheet if necessary.) IANAGEMENT OF THIS COURSE IS	sed, including its relationship to your overall BEING TRANSFERRED TO THE DEPA	*	IICS AND
STRONAUTICS. THE COURSE CO.	NTENT WILL NOT BE CHANGED		
			,
CATALOG DATA (Complete only if of	nangad)	• ·	
Catalog description (pigase double spa		······································	
(50-word limit, including prerequisites	and "Offered jointly with XXX 100" if applicat	ble)	
•		•	•
•		:	
,	•	•	•
_	•		
*		•	
	:	:	
Catalog subheading (If any) for this course within)	our denadment	1	
Names and ranks of probable instructors (include	curriculum vitae for any in tructor not now on the Univer-	sity faculty)	
	<u> </u>	D Include in General Catalo	og
Quarter(s) offered (A, W, Sp, S)	· · · · · · · · · · · · · · · · · · ·	🗖 include in General Catalo	og

	s: 1 credit represents a total tir		. o, o	MOSK OF STUDENT SHE		·
Contact hours per week Lecture	Laboratory	٠,				
Quiz section	Studio		•			
Seminar	Other*					
	ustification for "other" contact f			TOTAL CON	TACT HOURS:	
	rs will a student be expected to	spend		011	TOIDE LIQUIDO	
each week in preparation	TOT THIS COURSE?	TOTA	AL WEEKLY C	ONTACT AND OUT	TSIDE HOURS:	
o. If variable credit, how will	the number of credits awarded					
. How will students be eval	uated for credit or grades?			,		
STUDENTS (Complete of	nty if changed)					
a. Anticipated enrollment pe						
b. Types of students expect	ed (undergraduate majore, und	ergraduale non	-majors, gradu	ate or professional st	udents):	
•						
RESOURCES (Complete	e only if changed)					
Will additional resources be re	equired to teach this course, inc	duding new spa	ace, equipmen	, computer, library, c	r other instructional resor	urces?
Please explain.	•					
	•					
JOINT COURSE		•				
	or colleges participating. Joint chool or college participate, a s				unit.	
	and or congo pariopale, a s			do by eduliny		
Name of unit List the unit responsible for	Course prefix	Add joint	Orop Joint		Manual Land	
ministering the course first)	and number	status	status		Signature of chair	
				· · · · · · · · · · · · · · · · · · ·		
	<u> </u>					
		 	- 			
OTHER COLLEGES, S	SCHOOLS, OR DEPAR	TMENTS A	FFECTED			
	SCHOOLS, OR DEPAR matter currently dealt with by a			3	nt must circulate, this appl	lication for se
If this course includes subject		ny other Unive	rsity units, the	, originating departme		lication for re
f this course includes subject	matter currently dealt with by a	ny other Unive	rsity units, the	originating departmen action on this applic	ation.	lication for re
f this course includes subject	matter currently dealt with by a	ny other Univer on. Fallure to c	rsity units, the	originating departmen action on this applica Recommend	Recommend disapproval	lication for re
f this course includes subject a units and obtain the necess	matter cucrently dealt with by a ary signatures prior to submissi	ny other Univer on. Fallure to c	rsity units, the	originating departmen action on this applic	ation. Recommend	
this course includes subject a units and obtain the necess Name of unit	matter cucrently dealt with by a ary signatures prior to submissi Signature of de	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating departmen action on this applica Recommend	Recommend disapproval	Date
this course includes subject a units and obtain the necess Name of unit	matter cucrently dealt with by a ary signatures prior to submissi	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating departmen action on this applica Recommend	Recommend disapproval	
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f this course includes subject è units and obtain the necess Name of unit	matter cucrently dealt with by a ary signatures prior to submissi Signature of de	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating departmen action on this applica Recommend	Recommend disapproval	Date
f this course includes subject è units and obtain the necess Name of unit	matter cucrently dealt with by a ary signatures prior to submissi Signature of de	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating departmen action on this applica Recommend	Recommend disapproval	Date
f this course includes subject e units and obtain the necess Name of unit pt. of Engineering	matter cucrently dealt with by a ary signatures prior to submissi Signature of de	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating department action on this application on this application on the approval	Recommend disapproval	Date
this course includes subjects units and obtain the necess Name of unit pt. of Engineering	matter currently dealt with by a ary signatures prior to submissi Signature of dealt with by a signature of dealt with the submission of	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating department action on this application on this application on the approval	Recommend disapproval	Date
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If this course includes subject se units and obtain the necess	matter currently dealt with by a any signatures prior to submissi Signature of dealt with by a many signature of dealth submission with the submission of t	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating department action on this application on this application on the approval	Recommend disapproval	Date
If this course includes subject to units and obtain the necess Name of unit ept. of Engineering APPROVAL Chair of submitting department	matter currently dealt with by a ary signatures prior to submissi Signature of dealt with by a signature of dealt with submissi Mani Sow Mani Sow	ny other Univer on. Fallure to c ean or chair	rsity units, the	originating department action on this application on this application on the approval	Recommend disapproval	Date

University of Wa Curriculum Revi COURSE CHA



refix (6 characters max.)		Number
AA	*	210

shington ew Committee NGE APPLICATION	APPROVED MAR 1998	A A Offered jointly with: Prefix (6 characters max.)	210
Department			Date
eering Departm	nent of Aeronautics and Astronautics		12/7/98
cs			Credits 4
EQUEST (Check all that ap	oply)		
ge, to be effective AUTUM	N Quarter 19 99 .	and the state of the state of	The state of the s
e, to be effective Qua	arter 19 through Quarter 19		
	CURRENT DATA	NEW DATA	
d/or number	ENGR 210	A A 210	
е			
ed title (19 spaces max.)			

Change	joint status
Change	contact hours

☐ Change prerequisites

- ☐ Change to permanent CR/NC only
- ☐ Drop course

College or School College of Engine

Engineering Stati

1. PURPOSE OF R XX Permanent chan ☐ Temporary change

XX Change prefix an

☐ Change course tit

☐ Change abbreviat

☐ Change credits

Course Title

- ☐ Change catalog data
- ☐ Change resource requirements
- ☐ Drop permanent CR/NC only

Attach a course outline and reading list if requesting an increase in course level or credits or a substantial change in content.

Explain why this change is being proposed, including its relationship to your overall curriculum. (Attach additional sheet if necessary.)

MANAGEMENT OF THIS COURSE IS BEING TRANSFERRED TO THE DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS. THE COURSE CONTENT WILL NOT BE CHANGED.

3. CATALOG DATA (Complete only if changed)

Catalog description (please double space) (50-word limit, including prerequisites and "Offered jointly with XXX 100" if applicable)

Catalog subheading (if any) for this course within your department Names and ranks of probable instructors (Include curriculum vitae for any instructor not now on the University faculty)

Quarter(s) offered (A, W, Sp, S)

☐ Include in General Catalog ☐ Include in General Catalog

Contact hours per week Lecture Quiz section Seminar *Attach explanation and ju How many additional hours						Contract of the last of the la
Seminar *Attach explanation and ju How many additional hours	Laboratory					
Attach explanation and ju How many additional hours	Studio Other	-				
How many additional hours		ntact hours		TOTAL CONT	FACT HOURS:	
good wook in proporation f	s will a student be expec			TOTALOGIV	TACT TICOTIS.	1000
each week in preparation for	or this course?	TOTA	MEEKLY C	OUT CONTACT AND OUTS	ISIDE HOURS:	
b. If variable credit, how will the	no number of credits ou					
. Il valiable credit, now will the	ie number of credits aw	arded be related to th	e amount of s	tudent enort required?		
c. How will students be evalua-	ated for credit or grades	\$?				
STUDENTS (Complete onl	v if changed)					
a. Anticipated enrollment per						
	No. of the last of					
o. Types of students expected	d (undergraduate major	s, undergraduate nor	-majors, gradu	uate or professional stu	idents):	
RESOURCES (Complete	only if changed)		-			
Vill additional resources be red		rse, including new spa	ace, equipmen	t, computer, library, or	other instructional resou	rces?
Please explain.						
JOINT COURSE						
List all departments, schools, o					ınit.	
If units from more than one sol	looi or college participa	ite, a separate applica	tion must be t	lied by each.)	THE RESERVE OF	
Name of unit List the unit responsible for	Course prefix	Add	Drop			
ministering the course first)	and number	status	status		Signature of chair	
						Server District
				CAN THE STREET		
OTHER COLLEGES, S	CHOOLS, OR DE	PARTMENTS A	FFECTED			
f this course includes subject n	natter currently dealt wit	th by any other Unive	rsity units, the	originating departmen	t must circulate this appli	ication for re
OTHER COLLEGES, Softhis course includes subject no units and obtain the necessary	natter currently dealt wit	th by any other Unive	rsity units, the	originating departmen y action on this applica	t must circulate this applition.	ication for re
this course includes subject no units and obtain the necessary	natter currently dealt wil ry signatures prior to su	th by any other University to the state of t	rsity units, the	Recommend	Recommend	
this course includes subject n	natter currently dealt wil ry signatures prior to su	th by any other Unive	rsity units, the	y action on this applica	Recommend disapproval	cation for re
this course includes subject nunits and obtain the necessary	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend	
this course includes subject n units and obtain the necessar Name of unit	natter currently dealt will ny signatures prior to su Signatur	th by any other University to the state of t	rsity units, the	Recommend	Recommend disapproval	
f this course includes subject no units and obtain the necessary Name of unit	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend disapproval	
f this course includes subject no units and obtain the necessary Name of unit	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend disapproval	
f this course includes subject n e units and obtain the necessa	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend disapproval	
f this course includes subject no units and obtain the necessary Name of unit opt. of Engineering	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend disapproval	
this course includes subject no units and obtain the necessary Name of unit	natter currently dealt will ny signatures prior to su Signatur	th by any other University in the state of t	rsity units, the	Recommend	Recommend disapproval	

University of Washington Curriculum Review Committee COURSE CHANGE APPLICATION

Approved 1/24/96

rrenx (5 characters max.)	New number
ENGR	210
Offered jointly with:	
Prefix (5 characters max.)	New number

College or School College of Engineering Departm	Subdepartme	ent	Date 11-29-95
Course Title Engineering Statics			Credits 4
1. PURPOSE OF REQUEST (Check all that app	ly)		
A Permanent change, to be effective Winte	2 Quarter 19 96		
☐ Temporary change, to be effective		Quarter 19	
	CURRENT DATA	NEW DATA	
☐ Change prefix and/or number			
☐ Change course title			
☐ Change abbreviated title (19 spaces max.)			
☐ Change credits			
☐ Change prerequisites			
 □ Change joint status □ Change contact hours □ Change to permanent CR/NC only □ Drop course 	 ☑ Change catalog data ☐ Change resource requirements ☐ Drop permanent CR/NC only 		
Attach a course outline and reading list	if requesting an increase in course level or cre	dits, or a substantial change	in content.
2. JUSTIFICATION			
	uding the relationship of this course to your over	erall curriculum.	
(Attach additional sheet if necessary.)			
Revised description more accura	tely describes the course conte	ent.	
3. CATALOG DATA (Complete only if changed)			
New catalog description (<u>please double space</u>) (50-word limit, including prerequisites and "Off	ered jointly with XXX 100" if applicable)		
			tomo
Vector analysis appli	ed to equilibrium of rigid body	systems and subsys	tems.
Force and moment resultants, fr Analysis of basic structural an	d machine systems and component	es Prerequisites:	
MATH 126 V PHYS 121 recommended	: graphics background. Offered:	AWSpS.	
and	3 -		
Catalog subheading (if any) for this course with			
Names and ranks of probable instructors (Include	de curriculum vitae for any instructor not now o	n the University faculty)	
		The state of the s	General Catalog
Quarter(s) offered (A. W. Sp. S) AWSpS		□ Include in	General Catalog

4. CREDITS AND HOURS (C	The second second second					*		- 11
a. Contact and outside hou		sents a total time c	ommitment of	3 hours	per week of studen	t effort.	25	\$
Contact hours per week								
Lecture	Laborat Studio	ory						
Seminar	Other*							
*Attach explanatio		n for "other" cont	act hours.			TOTAL CONTACT H	IOURS:	
How many additional ho	urs will a student	be expected to spe	end					
each week in preparation	for this course?		196	4		OUTSIDE F		
						ACT AND OUTSIDE H	IOURS:	
b. If variable credit, how w	ill the number of	credits awarded be	related to the	amount o	of student effort red	quired?		
c. How will students be eva	aluated for credit	or grades?						
F CTUDENTS (Complete only	by to abandas							
5. STUDENTS (Complete onl								
a. Anticipated enrollment p			d					
b. Types of students expect	ted (undergraduat	e majors, undergrad	duate non-majo	ors, gradu	late or professional	students):		
6. RESOURCES (Complete or	alv if changed)							
Will additional resources wi		each this course inc	luding new eng	ce equin	ment computer li	hrary or other instruct	ional reco	HITCHS
Please explain.	i be required to te	each this course, me	induing new spa	ice, equip	ment, computer, n	brary, or other matruci	ional reson	uices
7. JOINT COURSE								
List all departments, school						each unit.		
(If units from more than on	e school or college	e participate, a sep	arate application	on must b	e filed by each.)			
Name of unit	Course p	Add	Drop					
(List the unit responsible for	and num	ber Join		1	Sign	nature of chair		
administering the course first)		stati	ıs status		THE PER			
8. OTHER COLLEGES, SCHO								
If this course includes subject								catio
for review by those units an	d obtain the nece	ssary signatures pri	or to submissio	n. Failur	e to do so will dela	y action on this applic	ation.	
					Recommend	Recommed		
Name of unit		Signature of dean o	or chair		approval	disapproval	Date	
		W. 11 B B 9	THE PARTY			(attach explanation)		
			P. Leaderson					
		15000381030						
APPROVAL								
	0011	1				Date		
Chair of submitting departm	ient WMO	ed				12/4/95		
College Curriculum Committe	9	Lellon	ne 1a			12/15/5		
_		0 01				10/13/70		
College Dean Dovo	thy a. R	Ceedin				12/15/9.	5	

12/28

UNIVERSITY OF WASHINGTON CURRICULUM BOARD COURSE CHANGE APPLICATION

	A DDI ICATION	EIN
ADD	APPLICATION	Joint Co
APP	KUYEDJUN 29	78

E	N	G	R	180
-	100	~		

Co	ollege or School	ENGR	DepartmentENG	R	Date 6/15/7	8
		jor change in cours	e content should be submitted on a	NEW COURSE A	PPLICATION form.	
	Permanent chang Temporary chang		Quarter 19_Quarter 19_7	8 through	hQuai	rter 19
1.	Spr. 1978 the chan	3, the course ge from Fall	number was changed to 1978 to Wtr 1979. The stering for Fall have s	210. This timing on	request is to the change was	
2.	If an increase in cr		equested, attach a justification and descri	ption of additions (or changes in content,	
1	,		OLD (complete all items)	NEV	W (complete only chang	ed items)
\$	Prefix and numb	er*	Engr 210		180	
	Title	(cha eff. dat	2 from	(eff. A78)	to leff.
	Abbreviated title	(19 spaces)	0 10		(00)	
	Credits		(lig in cou	use de	ser x preg)
	New prerequit New course d (See reverse s It is customary to follow this rule, ple	escription side)	☐ Change to permanent CR/NC only ☐ Drop permanent CR/NC only ☐ May be repeated for credit 1 credit for each 3 hours of total study of justification.	□ Dr	w number at top of page rop course d each week. If the credit	assigned does not
3.	a. University uni b. Course prefix					
	☐ Change to join	nt status	☐ Drop joint status ☐ Joint s	status remains t	he same	
4.	If this course incl	udes subject matter of those units. If this is	EPARTMENTS AFFECTED: urrently dealt with by other University not done, the college curriculum comm	ittee or the Unive	ting department should cirrsity Curriculum Board will commend Recommer proval disapprova	I do so, which may
	Name of unit		Signature of Dean or Chairma	n ap	provar disapprova	Date
5.	APPROVAL: Chairman College Curricul	w.mae	L. J. gail		* Please attach explanation	Date 6/16/78 6/21/78 6/21/78
	College Dean	K. 7.	faud			-121/18
	Graduate Schoo					
	University Curri	culum Board				

COMPLETE THIS SECTION ONLY IF COURSE DESCRIPTION IS CHANGED

CATALOG DATA:

Former General Catalog description:

	Course prefix Course title and No
	Credits Quarter(s) offered (A, W, Sp, and/or S)
1	Permanent CR/NC only Last name(s) of instructor(s):
	* Check here if to be included in General Catalog
	New General Catalog description (please double space):
-	
18	Cag off date from (eff. 18) to (e
	· (leg in course descrip preg)
	Desirable preparation or prerequisites to be included in <i>General Catalog</i> description (normally required for 300- or 400-level courses):
Abt	previated title for transcripts (not to exceed 19 characters, including spaces)



UNIVERSITY OF WASHINGTON CURRICULUM BOARD COURSE CHANGE APPLICATION

7.	Pre	fix	Number		
BOARD	E	N	G	R	180
	Join	t Cours	se Pref	ix and I	Number
MAR	23	78			

APPROVED

College or School Engineerin	g Department Engineering	Date 2/10/78
Applications for major change in cours	e content should be submitted on a NEW COUR	RSE APPLICATION form.
X Permanent change, to be effective ☐ Temporary change, to be effective		nroughQuarter 19
1. JUSTIFICATION FOR THIS ACTION A	AND ANTICIPATED IMPACT (continue on separate	ate sheet if necessary):
 Add pre-requisites Change from freshm See attachment 	of Math 126, Physics 121, Gra an 100 level to sophomore 200	level
If an increase in credit or course level is r	requested, attach a justification and description of add	itions or changes in content.
2. CATALOG DATA:		
N.	OLD (complete all items)	NEW (complete only changed items)
refix and number*	ENGR 180	ENGR 210
Title	Engineering Statics	- Timering Seedes
Abbreviated title (19 spaces)	Engr Statics	The second control of
Credits	4	CANAL SERVICE STATES
New prerequisites New course description (See reverse side)	☐ Change to permanent CR/NC only ☐ Drop permanent CR/NC only ☐ May be repeated for credit	* New number at top of page Drop course
It is customary to allow a maximum of follow this rule, please attach a statement	f 1 credit for each 3 hours of total student effort re of justification.	equired each week. If the credit assigned does not
3. JOINT COURSE (if this is a joint course a. University unit responsible for act b. Course prefix and number in oth c. Signature of Chairman of that units and the course prefix and number in other courses.)	dministration of the course ner unit(s)	
☐ Change to joint status	☐ Drop joint status ☐ Joint status rema	ains the same
	EPARTMENTS AFFECTED: currently dealt with by other University units, the or not done, the college curriculum committee or the	University Curriculum Board will do so, which may
Name of unit	Signature of Dean or Chairman	Recommend approval Recommend disapproval Date
		* Please attach explanations
5. APPROVAL:		Date / / / /
Chairman / William	VI Partil	3/11/18
Chairman Tammaca College Curriculum Committee K College Dean K + 9	and Jan 1	3/14/78
Graduate School Dean		77770
University Curriculum Board		

COMPLETE OTHER SIDE OF THIS FORM IF COURSE DESCRIPTION IS CHANGED

COMPLETE THIS SECTION ONLY IF COURSE DESCRIPTION IS CHANGED

CATALOG DATA:

Course ENGR prefix and No. 180 210	Course title Engineering Statics
4	AWSpS \Box^*
Permanent CR/NC only Last name(s) of instructor(s):	
Alexander	[X]*
New General Catalog description (* Check here if to be included in General Catalog please double space):
	asic concepts, parallelogram law, Newton's law, resultants
force-couple relationshi	ps, equilibrium diagrams, equilibrium analysis, three-
dimensional structures,	two-dimensional frames, trusses, beams, and friction. Vect
algebra used throughout	the course. Graphics background recommended.
Prerequisites Math 126, P	hys 121; graphics a recommended.
	background
Desirable preparation or prerequis 300- or 400-level courses):	ites to be included in General Catalog description (normally required for
Math 126 Physis 161.	Graphics recommended

Abbreviated title for transcripts (not to exceed 19 characters, including spaces)

Former General Catalog description:

UNIVERSITY OF WASHINGTON CURRICULUM BOARD COURSE CHANGE APPLICATION

ENGR 180

-				
New	course	prefix	and	numbe

Engineering Department, School, or College_

Date submitted 2/16/71

-	FOT	DIO	TIO	BICS
ж	EST	RIG		NS.

Courses changed with this form do not become new courses and students taking the original and the changed courses will

no	It receive credit for both. If it is desired that students receive credit for both the original course and the changed course, the iginal should be dropped with this form and the new course applied for on the NEW COURSE APPLICATION form, or a maximum number of credits for this course should be specified below.
AF	PPLICATION FOR:
	heck as many boxes as are appropriate.)
	Permanent change Temporary change for Quarter 19
	Change of title a. Old title Statics
hand	List new title in 2. a.
	b. New abbreviated title for transcripts Waldway XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	Not to exceed 19 characters, including spaces
	Increasing course number to higher level. Old prefix and number
	Other change of number. Old prefix and number GE 112 List new prefix, number,
	Increasing credits by more than 1 credit. Old credits and/or credits in 2. b.
_	X Other change of credit. Old credits 3
	Course to be dropped. Y Other (specify) Course description change Detail on other side of this form
1.	
	in the technical breadth area. Addition of vectors and more detailed course description.
	and the second s
2.	CATALOG DATA:
	a. Course title Waxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	b. Course prefix and number ENGR 180 Credits 4
	e.g., CMU 200
	c. In undergraduate courses it is customary to allow a maximum of 1 credit for each hour of lecture or quiz session a week and 1 credit for each two hours of laboratory work a week. Departures from this procedure must be justified.
3.	IS THIS A JOINT COURSE?
	TX No
	☐ Yes a. Other Department, School, or College
	b. Course prefix and number in that unit
	c. Signature of Chairman of that unit
4.	SCHEDULING:
	(An approved change will not appear in the Time Schedule until appropriate Time Schedule forms are completed by the offering unit.)
	A7
	A. I.
	b. Change is to take effect Autumn Quarter 19_71
5.	OTHER COLLEGES, SCHOOLS, OR DEPARTMENTS AFFECTED:
	(If this course covers areas also covered by other units in the University, it is essential that this application be reviewed
	by those units and that agreement to the course change by those units indicated by signatures below.)
	Name of unit(s) Signature of Dean or Chairman Comments Date
	./ 0/
5.	APPROVAL:
	Chairman Tumacartney / 2/19/7/
	College Curriculum Committee Show Show
	Deall
	University Curriculum Board

Principles of statics, basic concepts, parallelogram law, Newton's law, resultants, force-couple relationships, equilibrium diagrams, equilibrium analysis, three-dimensional structures, two-dimensional frames, trusses, friction, and virtual work. Vector algebra used throughout the course.