

OFFICE OF THE PRESIDENT

March 11, 2011

Dean Matthew O'Donnell College of Engineering Box 352180

Dear Matt:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the option in Mechatronics within the Bachelor of Science in Mechanical Engineering degree. A copy of the changes is attached.

I am writing to inform you that the College of Engineering is authorized to specify these requirements beginning winter quarter 2011.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Thylis

Phyllis M. Wise Interim President

Enclosure

cc: Dr. Joseph Garbini (with enclosure)

Ms. Margo Segimoto (with enclosure)

Mr. Robert Corbett (with enclosure)

Dr. Deborah H. Wiegand (with enclosure)

Ms. Virjean Edwards (with enclosure ME-20100601)



UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS



After college/school/campus review, send a signed original and 8 copies to the Curriculum Office/FCAS, Box 355850.

For information about when a	and now to use this	iomi. http://depts.washing	torricad/awar/ 1000man gottoria	
College/Campus Engineering		Department/Unit	Mechanical	Date 6/1/2010
New Programs				
Leading to a Bachelor of in degr				
Leading to a Bachelor of		degree with	a major in	1 (1 (
Leading to a Bachelor of	1atronics	Option within the e	existing major in <u>\$5 in /</u>	nechanical Ergs.
Leading to a minor in				
Changes to Existing Programs New Admission Requirement	ts for the Major in _			
Revised Admission Requirements for the Major in within the Bachelor of			of	
Revised Program Requirements for the Major in				
Revised Requirements for the	ne Option in Mech	atronios	_within the major in Mect	nanical Engineering
Revised Requirements for the				
Other Changes				
☐ Change name of program from	om		to	·
New or Revised Continuation	n Policy for			
Eliminate program in				·
Proposed Effective Date: Quarter:				
Contact Person: Garbini	Phone:	45290 Email: 00r	pini P.V. Washingt	1180x 350600
EXPLANATION OF AND RATIONALE	OR PROPOSED C	HANGE		
For new program, please include an letters of support and departmental	y relevant supportin	g documentation such as	student learning outcomes, pr	ojected enrollments,
During the past 15 years the Department of Mechanical Engineering has guided senior-level students, interesting in Mechatronics, through a sequence of ME courses, culminating in a capstone design course in that discipline. Approximately, 300 students have participated in the Mechatronics concentration.				
We propose to make Mechatronics an Option within Mechanical Engineering, allowing students to receive transcript recognition for a successful completion.				
As shown on the attached page, the Option in Mechatronics overlaps 80% of the credits in Mechanical Engineering. Students participating in the Mechatronics Option will meet all requirements of a BSME degree.				
Interested Mechanical Engineering students will apply for admission to the Mechatronics Option at the end of the spring quarter of their junior year. Admission will be arbitrated by the ME Undergraduate Education Committee. The target enrollment for the Mechatronics Options is 25 students.				
During their senior year, students wil Mechatronics capstone design project	l begin the sequer cts in spring quart	nce of Mechatronics cla er.	sses in autumn quarter, an	d complete their
OTHER DEPARTMENTS AFFECTED			A STATE OF THE STA	
List all departments/units/ or co-acc the signature of the chair/director of	redited programs af	fected by your new progra	m or changes to your existing	program and acquire
Department/Unit:	Chair/Program Direc	tor:	page(a) it necessary. Gee of	Date:
	- -			
	D: (D D.)	Ī		Date:
Department/Unit:	Chair/Program Direc	tor		Date.

CATALOG COPY	
Catalog Copy as currently written. Include only sections/paragraphs that would be changed if your reque out or otherwise highlight any deletions.	est is approved. Please cross
out of otherwise nightight any deletions.	
PROPOSED CATALOG COPY	
Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. In highlight any additions. If needed, attach a separate, expanded version of the changes that might appear	Please underline or otherwise in department publications).
Please note: all copy will be edited to reflect uniform style in the General Catalog.	
APPROVALS Chair/Program Director:	
Chair-rogram Director.	Date:
ter leelt	10/28/10
College/School/Campus Curriculum Committee:	Date:
- Jugar and	11/2/10
Dean/Vice Chancellor:	Date:
Le A- Risi -	1-3-10
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:
John Schaul Heren	12112/20
POST T'RI-CAMPUS APPROVAL (when needed)	12/10/2010
Faculty/Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:
John to Cha. Villes Elis	1/21/2011
1 plan / Sharenson	Idayau

UoW(1508 (10/08) REVERSE

Current:

Major Requirements (95 credits)

- 1. Engineering Fundamentals (31 credits): A A 210; AMATH 301; CEE 220; E E 215; IND E 315 (or MATH 390); M E 123; M E 230; MSE 170
- 2. Mechanical Engineering Core Courses (45 credits): M E 323, M E 331, M E 333, M E 354, M E 355, M E 356, M E 373, M E 374, M E 395, M E 495
- 3. Mechanical Engineering Option Courses (19 credits)

Proposed

Mechatronics: A BSME Option, recommended to students interested in analysis and design of systems containing mechanical, electrical and computational elements.

Major Requirements (95 credits)

- 1. Engineering Fundamentals (31 credits): A A 210; AMATH 301; CEE 220; E E 215; IND E 315 (or MATH 390); M E 123; M E 230; MSE 170
- 2. Mechanical Engineering Core Courses (45 credits): M E 323, M E 331, M E 333, M E 354, M E 355, M E 356, M E 373, M E 374, M E 395, M E 495
- 3. Mechanical Engineering <u>Concentration</u> Courses (19 credits)
- Mechatronics Option Requirements (95-97 credits)
 - Engineering Fundamentals (31 credits): A A 210; AMATH 301; CEE 220; E E 215; IND E 315 (or MATH 390); M E 123; M E 230; MSE 170
 - 2. Mechanical Engineering Core Courses (45 credits): M E 323, M E 331, M E 333, M E 354, M E 355, M E 356, M E 373, M E 374, M E 395, M E 495
 - 3. Mechatronics Option (19-21 credits)
 - 1. Core (13 credits): M E 471, M E 473, M E 477, M E 498.
 - 2. Electives (6-8 credits): Two of M E 469, M E 470, M E 478, M E 480, PHYS 334 and PHYS 335.
 - 4. Minimum grade of . 2.0 in course applied to the major.

Seattle: New Option in Mechatronics within the Bachelor of Science in Mechanical Engineering degree (ME-20100601)

Tri-Campus Review Comments:

PAUL YAGER

There isn't enough information in the material included to tell what's new in the proposal, and how it might overlap with other mechatronics-like work in other departments (like EE and CS&E).

JOSEPH GARBINI (Department response via Tri-Campus Review posting) No new curriculum, organization, or courses are proposed.

Mechanical Engineering is proposing to maintain, with no changes, the senior-level mechatronics program that it has offered to ME students for the past 15 years. The proposed Option WILL allow ME mechatronics students to receive transcript recognition for their participation.

Clearly, the mechatronics degree Option would be available to ME students only. As always, the existing senior-level ME courses that make up the mechatronics offering are open to students from other departments.

UNIVERSITY CAMPUSES UNDERGRADUATE PROGRAM REVIEW PROCEDURES** **CHECKLIST**

Title of Proposal: Ontion in M. in

Title of Proposal: Option in Mechatronics within the Bachelor of Scier	псе
Mechanical Engineering degree	
Proposed by (unit name): Mechanical Engineering	
Originating Campus:	
X_UW, Seattle	
UW, Bothell	
UW, Tacoma	
I. Phase I. Developed Proposal Review (to be completed by Originating Campus' Acade Program Review body)	∍mic
A. Review Completed by: (list name of program review body)	
Chaired by:	
12/10/10 Date proposal received by originating campus's review body	
12/10/10 Date proposal sent to University Registrar	
12/14/10 Date proposal posted & email sent to standard notification list	
01/21/11 Date of originating campus's curriculum body approval (Note: this date must be 15 business days or more following date of positions)	ting)
B. 2 Number of comments received. Attach the comments and a summary of the	
consideration and responses thereof : (1-2 paragraphs)	
II. Phase II. Final Proposal Review (to be completed by FCTCP)	
A. Review Completed by: _X_ FCTCP subcommittee FCTCP full council Chaired by: Janet Primono (sub-committee Chair); William Erdly (FCTCP Chair)	

II.

3/8/11 Date request for review received from University Registrar

Note: This was e-mailed originally on 1/27/11; however, the message was not acknowledged or reviewed by the FCTCP chair as the e-mail was misplaced. Upon the 3/8/11 notification that the file had not yet been reviewed, the file was located and the process expedited. The Chair expresses his apologies for the delay.

3/9/11 Date of FCTCP report

b. Review
YES NO _x Was notice of proposal posted on UW Website for 15 business days? _x Was notice of proposal sent to standard mailing list 15 business days in advance of academic program review? _x Were comments received by academic program review body? _x Was response to comments appropriate? (explain, if necessary) x_ Was final proposal reviewed by FCTCP within 14 days of receipt? (see note above.) _x Was there adherence to the University Campuses Undergraduate Program Review Process? (explain, if necessary)
C. Recommendation
x Forward for final approval Forward to Provost because of University issues (Explain) Return to campus council because of insufficient review (Explain).
**Endorsed by Faculty Senate Executive Committee, 1/10/05, modified 1/31/06; These procedures apply to new undergraduate degrees, majors, minors (and certificates) and substantive changes to same