Chair: Tracy Christofero

GC#7: Course Change

Request for Graduate Course Change

- 1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
- 2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
- 3. The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.

College: College of Science Dept/Division: Physics	Current Alpha Designator/Number: PHY 630
Contact Person: Huong Nguen, Wilson Thomas	Phone: x6-2754
CURRENT COURSE DATA:	
Course Title: Classical Mechanics	
Alpha Designator/Number: P H Y 6 3 0	
Title Abbreviation: C I a s s i c a I M	e c h a n i c s
2. If this change will affect other departments that require this of this packet, as well as the response received from the affected of the changes made to this course will make the course similar the affected department and include it with this packet as well at 4. List courses, if any, that will be deleted because of this change.	course, please send a memo to the affected department and include it with department. If in title or content to another department's courses, please send a memo to as the response received from the affected department.
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Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head	Date Dec7, 2017
Registrar 40080/	Date 12-18-17
College Curriculum Chair	Date 12-15-17
Graduate Council Chair	Date

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College: College of Science	Department/Division: Department of Physics	Alpha Designator/Number: PHY 630		
Provide complete information reg	arding the course change for each topic listed	below.		
Change in CATALOG TITLE: YES	⊠ NO			
From To If Yes, Rationale		(limited to 30 characters and spaces)		
ii res, nationale				
Change in COURSE ALPHA DESIGNATO	PR:			
From: To	☐ YES 区 NO			
If Yes, Rationale				
Change in COURSE NUMBER:	YES 🛛 NO			
From: To:				
If Yes, Rationale				
Change in COURSE GRADING				
From Grade To Credit/No Co	redit			
Rationale				
Change in CATALOG DESCRIPTION:	YES NO IF YES, fill in be	low:		
From	1.3			
То				
If Yes Rationale	Ti and the state of the state o			
Form updated 10/2011		Page 2 of 5		

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Change in COURSE CREDIT HOURS: X YES NO If YES, fill in below:				
NOTE:	If credit hours increase/decrease, please provide documentation that specifies the adjusted work requirements.			
From	3 In the time allotted for the course, only 2/3 of the textbook Classical Mechanics (Third Edition), by Herbert Goldstein, Charles P. Poole and John L. Safko could be covered.			
То	4 This will allow students to cover the remaining part from the textbook, thus providing them with a more in-depth knowledge of Electrodynamics at the graduate level.			
Change	e in COURSE CONTENT: XX YES XXIVINO			
From	Chapters 1 through 8 from the textbook Classical Mechanics (Third Edition), by Herbert Goldstein, Charles P. Poole and John L. Safko.			
То	Chapters 1 through 12 from the textbook Classical Mechanics (Third Edition), by Herbert Goldstein, Charles P. Poole and John L. Safko.			
Rationa	In a one-semester 3-hour sequence, time does not usually allow for an introduction to Canonical Transformations, Hamilton-Jacobi Theory and Action-Angle Variables problems. Increasing the lecture time by 33% (from 3 to 4 hours) should now allow for these topics to be included and considered in some depth.			

Form updated 10/2011

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College: College of Science	Department: Department of Physics
Course Number/Title PHY 630	
REQUIRED COURSE: If this course is required be notification you sent to them announcing to the applicable.	by another department(s), identify it/them by name and attach the written or the proposed change and any response received. Enter NOT APPLICABLE if not
NOT APPLICABLE	
2. COURSE DELETION: List any courses that will be NOT APPLICABLE if not applicable.	be deleted because of this change. A Course Deletion form is also required. Enter
NOT APPLICABLE	
of this change, attach an estimate of the time ar approval for additional resources. Enter NOT AP	our department requires additional faculty, equipment, or specialized materials as a resund cost etc. required to secure these items. (NOTE: approval of this form does not imply PLICABLE if not applicable.
NOT APPLICABLE	
*1	

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Please insert in the text box below your course change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings) based on the appropriate change:

COURSE DESCRIPTION CHANGE

COURSE NUMBER CHANGE Department:

COURSE TITLE CHANGE

Department:

Course Number and Title:

Department:

Current Course Number/Title:

Current Course Number/Title:

Rationale:

New Course Number:

New Course Title:

Course Description (old) Course Description: (new) Rationale:

Rationale:

Catalog Description:

Catalog Description:

Credit hours:

Catalog Description:

COURSE CREDIT HOURS CHANGE

Department: Physics

Current Course Credit Hours: 3 Current Course Credit Hours: 4

Rationale: In a one-semester 3-hour sequence, time does not usually allow for an introduction to Canonical Transformations, Hamilton-Jacobi Theory and Action-Angle Variables problems. Increasing the lecture time by 33% (from 3 to 4 hours) should now allow for these topics to be included and considered in some depth.

Catalog Description: Study of variational principles and Lagrange's equations, the two-body central force problem, the kinematics and dynamics of rigid-body motion, Hamilton's equations of motion, canonical transformations, Hamilton-Jacobi theory, and small oscillations.

M.			