Attachment D

CIM Report Oct 11, 2018 10:16am

Course Changes Pending Approval from Graduate Committee

Code	Field	Old Value	New Value
BENG 5733		Inactivated/Deleted	
CHEG 5443		Added	
CVEG 4253		Inactivated/Deleted	
CVEG 4393		Inactivated/Deleted	
CVEG 5133		Added	
CVEG 5153		Added	
EDEQ 5003		Added	
EDEQ 5013		Added	
EDEQ 5023		Added	
EDEQ 5033		Added	
EDEQ 5043		Added	
EDEQ 5053		Added	
EDLE 6013		Added	
ELEG 5563		Added	
EMGT 514V		Added	
INEG 6843	Status Modifiers	Inactivated	
	Catalog Title	Scheduling and Sequencing II (Irregular)	Scheduling Theory and Algorithms
	Catalog Description	An investigation into constructive algorithms and various operations research approaches for solving sequencing and scheduling problems in a variety of machine environments (single-machine, parallel machines, flow shops, and job shops).	The course will cover the theory and solution methods for scheduling several tasks over time. Topics include terminology, measures of performance, single machine sequencing, flow shop scheduling, the job shop problem, and priority dispatching. Side constraints within scheduling, such as precedence, release dates, and due dates are addressed. Integer programming, dynamic programming, and heuristic approaches to various problems are also presented.
	Short Course Title	SCHEDULING SEQ II	SCHED. THEORY AND ALGORITHMS
	Prerequisite(s)	INEG 5843.	INEG 5613 or equivalent, computer programming proficiency, and exposure to proofs.
	Proposed Effective Date		Spring 2019
	Academic Level		Graduate
	Typically Offered		Irregular
	Course Delivery Method		On campus
	Title/Description Change Type		Major Content Change

	Justification		What is changing: More theoretical and practice oriented treatment of scheduling. Justification: Given the current course offerings in the Industrial Engineering department, no course covers the theory and algorithms for scheduling problems. Scheduling is an important topic with many applications including manufacturing, sports, and disaster response. A PhD level course is needed to understand the theory about the complexity of scheduling problems, properties of optimal solutions, and algorithms for solving the problems quickly.
	Syllabus		INEG 6843 Syllabus.pdf
	Reviewer Comments		lkulcza - Tue, 06 Mar 2018 00:01:50 GMT - Rollback: Please provide a justification for this proposal. ac087 - Thu, 24 May 2018 14:35:33 GMT - Spring 2019 Effective date pending completion of approval process.
	Is Reactivate?		true
MEEG 5163	Added		
PHED 5233	Inactivated/Deleted		