Course Change Request

Date Submitted: 02/15/24 12:07 pm

Viewing: **MATH 441 : Deterministic <u>Optimization</u>** ~~Operations Research~~

Last approved: 05/15/20 4:45 am

Last edit: 02/15/24 2:08 pm

Changes proposed by: csausvil

Catalog Pages referencing this course

[Department of Mathematical Sciences](#)

[Department of Systems Engineering and Operations Research](#)

Select modification type:

Substantial

Are you completing this form on someone else's behalf?

No

Effective Term: Summer 2024

Subject Code: MATH - Mathematics   **Course Number:**   441

Bundled Courses:

Is this course replacing another course?   No

In Workflow

1. **MATH Chair**
2. **SC Curriculum Committee**
3. SC Assistant Dean
4. Assoc Provost-Undergraduate
5. Registrar-Courses
6. Banner

Approval Path

1. 02/15/24 12:34 pm
   Maria Emelianenko (memelian): Approved for MATH Chair

History

1. Dec 20, 2018 by Gregory Craft (gcraft)
2. May 15, 2020 by Tory Sarro (vsarro)

Equivalent Courses:	OR 441 - Deterministic Optimization
Catalog Title:	Deterministic <u>Optimization</u> ~~Operations Research~~
Banner Title:	Deterministic <u>Optimization</u> ~~Operations Rsrch~~
Will section titles vary by semester?	No
Credits:	3
Schedule Type:	Lecture
Hours of Lecture or Seminar per week:	3
Repeatable:	May be only taken once for credit, limited to 3 attempts (N3)

Max Allowable Credits:
9

Default Grade Mode:	Undergraduate Regular
Recommended Prerequisite(s):	
Recommended Corequisite(s):	
Required Prerequisite(s) / Corequisite(s) (Updates only):	

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
	(	MATH 203	C	UG		
Or		MATH 203	XS	UG		
Or		MATH 203T	T	UG	)	

Registration Restrictions (Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Degree(s):

School(s):

Catalog Description:

Survey of deterministic methods for solving real-world decision problems. Programming model and simplex method of solution, duality and sensitivity analysis, transportation and assignment problems, shortest path and maximal flow problems, project networks including PERT and CPM, introduction to integer and nonlinear programming, dynamic programming, and game theory. Emphasizes modeling and problem solving.

Justification:

What: We are updating the title of the course.

Why: This class is always cross listed with OR 441 and in order to continue that, the titles need to stay the same OR has already changed the title of their course.

Does this course cover material which crosses into another department?   No

Learning Outcomes:

Will this course be scheduled as a cross-level cross listed section?

Attach Syllabus

Additional Attachments

> **Specialized Course Categories:**

Additional Comments:

Reviewer Comments