Course Change Request

Date Submitted: 11/16/22 12:55 pm

Viewing: MATH 111 : Linear Mathematical Modeling

Last approved: 10/30/18 5:15 am

Last edit: 11/29/22 11:26 am

Changes proposed by: csausvil

Catalog Pages referencing this course

Department of Mathematical Sciences

INTO Mason

Select modification type:

~~Simple~~

Substantial

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

No

Effective Term: Spring 2023

Subject Code: MATH - Mathematics

Course Number: 111

Bundled Courses:

Is this course replacing another course? **No**

In Workflow

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

Approval Path

1. 11/16/22 2:46 pm Maria Emelianenko (memelian): Approved for MATH Chair

History

1. Aug 25, 2017 by pchampan
2. Oct 30, 2018 by Tory Sarro (vsarro)

Equivalent Courses:

Catalog Title: Linear Mathematical Modeling

Banner Title: Linear Math Modeling

Will section titles vary by semester? No

Credits: 4 ~~3~~

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 4 ~~3~~

Repeatable: May be only taken once for credit, limited to 3 attempts (N3)

Max Allowable Credits: 12 ~~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?

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:

Matrix algebra, systems of linear equations, Markov chains, difference equations, and data fitting.

Justification:

What: We are adding one additional credit to the course.

Why: This is to meet the needs of our client departments. We will be adding in time remediation for algebra topics and incorporating active learning into the course so that students get additional help during class time.

Impacted programs (non-COS):

LA-BS-PSYC: Psychology, BS

IN-BA-P001,IN-BS-P001,IN-BFA-P001,IN-BPRE-P001: INTO-Mason: Humanities and Social Sciences Undergraduate Pathways

IN-BA-P003,IN-BPRE-P003,IN-BS-P003,IN-BSW-P003: INTO-Mason: Human and Social Development Undergraduate Pathways

SCLP: Scientific Leadership and Practice Minor

IN-BPRE-P015: INYO General Exploratory Year One

: INTO-Mason: General Exploratory

Impacted course prerequisites (non-COS):

INYO 104: Linear Modeling Support for INTO Mason Year One

INTS 333: The Nature of Mathematics

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

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Mason Core

Select the Mason Core Requirement the course is proposing to fulfill:

Foundation Courses:

Quantitative Reasoning

Exploration Courses:

Integration Courses:

Quantitative Reasoning

Course must address all of the following learning outcomes:

1. Students are able to interpret quantitative information (i.e., formulas, graphs, tables, models, and schematics) and draw inferences from them.
2. Given a quantitative problem, students are able to formulate the problem quantitatively and use appropriate arithmetical, algebraic, and/or statistical methods to solve the problem.
3. Students are able to evaluate logical arguments using quantitative reasoning.
4. Students are able to communicate and present quantitative results effectively.

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see "?" for help with submission)

Additional Comments:

Reviewer Comments

Key: 10142