

Course Change Request

Date Submitted: 04/08/19 2:10 pm

Viewing: **MATH 302 : Foundations of Geometry**

Transfer Course(s): MATH L302

Last approved: 02/22/19 4:30 am

Last edit: 04/08/19 2:10 pm

Changes proposed by: igriva

Catalog Pages
referencing this
course

[Department of Mathematical Sciences](#)

[Mathematics \(MATH\)](#)

Select modification type:

Simple

Substantial

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. 04/09/19 10:16 am
David Walnut
(dwalnut):
Approved for MATH
Chair

History

1. Feb 22, 2019 by
Gregory Craft
(gcraft)

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

No

Effective Term: Fall 2019

Subject Code: MATH - Mathematics

Course Number:
302

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Foundations of Geometry

Banner Title: Foundations of Geometry

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):
~~Completion of 6 hours of MATH.~~

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only):
MATH 114C or 116C

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:

Axioms, theorems ~~Axioms of Euclidean geometry and proofs of Euclidean, the resulting theory, and axioms and development of non-Euclidean and projective geometry.~~ Fundamental concepts of incidence. ~~Axioms of Euclidean geometry and the resulting theory, and axioms and development of non-Euclidean and projective geometry.~~

Justification:

Many students are confused about the content our two geometry classes: MATH 302 and MATH 312, when they try to reason which one better fits their needs. For example, students from the school of engineering often seek practical knowledge of analytic geometry covered in MATH 312 while enrolling themselves in more axiomatic and proofs based class MATH 302. To help students understand better what is covered in two classes, we propose to modify catalog descriptions of both courses, mainly emphasizing that MATH 302 is about the axiomatic buildup of the geometries.

We also propose to modify the prerequisite for MATH 302 to match those with MATH 312, requiring a more rigorous mathematical background.

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

Learning Outcomes:

Attach Syllabus

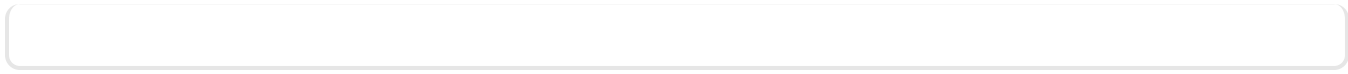
[math302_syllabus_F18.pdf](#)

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments



Key: 10188