

Program Change Request

Date Submitted: 11/08/18 2:09 pm

Viewing: **MINOR-MATH : Mathematics - Minor**

Last approved: 03/06/17 3:18 pm

Last edit: 11/13/18 11:30 am

Changes proposed by: donnalh

Catalog Pages Using
this Program

[Mathematics - Minor](#)

In Workflow

1. **MATH Department Head**
2. **Curricular Services Review**
3. **SC Committee Preparer UG**
4. **SC Committee Chair UG**
5. **SC College Dean UG**
6. **UCC Preparer**
7. **UCC Chair**
8. **Faculty Senate Preparer**
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

Approval Path

1. 11/09/18 9:18 am
Emil Straube (e-straube): Approved for MATH Department Head
2. 11/13/18 11:33 am
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
3. 11/13/18 11:58 am
Sara Thigpin (sarathigpin): Approved for SC Committee Preparer UG
4. 11/13/18 11:59 am
Lucas Macri (lmacri): Approved for SC Committee Chair UG
5. 11/13/18 12:00 pm
Lucas Macri (lmacri): Approved for SC College Dean UG
6. 11/14/18 10:51 am
Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/10/18 10:32 am
Terra Bissett (t.bissett): Approved for UCC Chair

Contact(s)

Name	E-mail	Phone
Donna Hoffman	donnalh@tamu.edu	979-862-4306

Academic level	Undergraduate
Effective Term	2019-2020
Department	Mathematics
College	Science
Program type	Minor
With a minor in	Mathematics (MATH)
Associated Program	Not Applicable

Catalog Program Title
Mathematics - Minor

Rationale for Proposal

1. **Since ~~Changing~~ MATH 220 is being renumbered to 221/251/253 from a 300-level required course number, it no longer needs to be listed separately ~~to an elective course will give students more flexibility in completing~~ the Undergraduate Catalog and Rule C. ~~minor~~ in Howdy Degree Evaluation.**
2. **MATH 396 is only a 1 credit hour course and MATH 419 is only a 2 credit hour course and therefore not eligible for the minor.**
3. **This added statement will bring Howdy Degree Evaluation into agreement with the Undergraduate Catalog.**

Program hours	16
Is this program eligible for financial aid?	No
Will program hours change (increase/decrease) due to the proposed curriculum changes?	No

Catalog Program Requirements

History

1. Aug 23, 2016 by Sandra Williams (sandra-williams)
2. Mar 6, 2017 by Donna Hoffman (donnalh)

Non-math majors can obtain a minor in mathematics by meeting the following requirements:

Code	Title	Semester Credit Hours
Course List		
Select one from:		4
MATH 148	Calculus II for Biological Sciences	
MATH 152	Engineering Mathematics II	
MATH 172	Calculus	
Select from the following:		9
MATH 220	Foundations of Mathematics	
MATH 221	Several Variable Calculus 1	
MATH 251	Engineering Mathematics III 1	
MATH 253	Engineering Mathematics III 1	
300-400 level Mathematics course 2, 3		
400 level Mathematics course 3		3
Total Semester Credit Hours		16

1 Only one of [MATH 221](#), [MATH 251](#), or [MATH 253](#) can be taken to satisfy the minor, due to the course content.

2 Only one of [MATH 304](#), [MATH 309](#), [MATH 311](#) or [MATH 323](#) can be taken to satisfy the minor, due to the course content.

3 All 300-400 level MATH courses MUST be taken at Texas A&M University. No transfer work will be accepted.

Students must make a grade of "C" or better in all courses.

[MATH 131](#), [MATH 141](#), [MATH 142](#), [MATH 365](#), [MATH 366](#), [MATH 367](#), [MATH 368](#), [MATH 396](#), [MATH 403](#), [MATH 419](#), and [MATH 485](#) may not be used to satisfy the requirements. [MATH 485](#) will receive approval only under exceptional circumstances.

Additional information

- To remove MATH 220 from the Course List in the Undergraduate Catalog and in Rule C. in Howdy Degree Evaluation (due to the renumbering of MATH 220 to Math 300).**
- Description of change: To add MATH 396 Removing Calculus III (MATH 221/251/253) as a required course and MATH 419 to changing the list 6 hours of excluded courses in the Note Section of the Undergraduate Catalog and change Rule B. upper level electives to 9 hours. and Rule C. to exclude MATH 396 and MATH 419 in Howdy Degree Evaluation.**
- To add the statement, "Only one of MATH 221, MATH 251, or MATH 253 can be taken to satisfy the minor, due to course content" to the Description section in Howdy Degree Evaluation.**

Required Proposal [math_minor_16c.pdf](#)
Forms [PresidentApprovalFacultySenateItems121216.pdf](#)
[math_minor.pdf](#)

Reviewer Comments

Angel Mario Carrizales (carri1214) (11/01/17 5:37 pm): Rollback: What is being changed? The content of this proposal is the same from the 2017-2018 Catalog approval cycle.

Angel Mario Carrizales (carri1214) (11/02/17 4:58 pm): Rollback: Previous comment has not been addressed.

Angel Mario Carrizales (carri1214) (11/13/18 11:33 am): Initial concerns addressed.

Terra Bissett (t.bissett) (12/10/18 10:32 am): UCC approved December 2018.

Key: 98

unofficial evaluation

Area : Mathematics Minor (16.000 credits) - Not Met

Description : Minimum of 6 hours at 300-400 level.
No grade less than a 'C' is acceptable.
All 300-400 level MATH courses must be taken at TAMU. Transfer work not accepted.
MATH 147, 151, or 171 is a required prerequisite.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	MATH Rqmt				4hrs	MATH Rqmt I 4hrs Must make a grade of 'C' or better. Select from MATH 148, 152, 172.							
No	AND	B.	400-Level MATH				3hrs	400-Level MATH 3hrs Must make a grade of 'C' or better. Select from MATH 400-499 (except MATH 403, 419, 485)							
No	AND	C.	MATH Elect				9hrs	MATH Elect 9hrs Must make a grade of 'C' or better. Select from MATH 221, 251, 253, 300-499 (except MATH 365-368, 396, 403, 419, 485)							
													Total Credits and GPA	0.000	.00

unofficial evaluation

Area University Writing Requirement - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Writing Requirement					Two courses required. Only sections of ANTH 100-499; UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.							
													Total Credits and GPA	0.000	.00

unofficial evaluation

Area Int'l & Cult Diversity - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Int'l & Cultural Diversity				6hr	Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).							
													Total Credits and GPA	0.000	.00

unofficial evaluation

Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University, 12 hours must be in the major field.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Residence-Major				12hrs	Residence-Major 12hrs							
No	AND	B.	Residence - 300-499				24hrs	Residence - 300-499 24hrs							
													Total Credits and GPA	0.000	.00

unofficial evaluation

Area : GPR-Major - Not Met

Description : A GPR of 2.00 must be maintained in all major field courses.