

Program Change Request

Date Submitted: 11/07/18 3:33 pm

Viewing: **BA-MATH : Mathematics - BA**

Last approved: 03/19/18 4:50 pm

Last edit: 11/09/18 9:58 am

Changes proposed by: donnalh

Catalog Pages Using
this Program

[Mathematics - BA](#)

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	Degree
Degree designation	BA - Bachelor of Arts
With a major in	Mathematics (MATH)
Associated Program	Not Applicable
Catalog Program Title	Mathematics - BA
CIP and Fund code	27010100

Rationale for Proposal

- To comply with new course numbers established by the Chemistry Department.**
- To comply with new course numbers established by the Physics Department.**
- To comply with new course numbers established by the Physics Department.**
- To comply with new course number established by the Academic Success Center.**
- ~~*Adding ENGL 103 as an acceptable Communication Requirement will assist students who have earned credit for ENGL 1301.*ATMO 201/ATMO 202, CHEM 107/CHEM 117, GEOL 101/GEOL 102, OCNG 251/OCNG 252 and PHYS 208 have been approved by Undergraduate Studies Committee as eligible to satisfy the Life and Physical Science Core Requirement. Adding ATMO 201/ATMO 202, GEOL 101/GEOL 102 and OCNG 251/OCNG 252 as an option for 4 credits will allow students more flexibility in their degree plans.*The course content of MATH 220 and CSCE 222/ECEN 222 are too similar to allow credit both courses. Math 423 *The course content of MATH 220 and CSCE 222 is not too similar to include CSCE 222 as an acceptable elective for BA Certification majors, so one of MATH 415 or MATH 433 must be taken instead. CSCE elective-~~
- The Footnote number was incorrect in previous Catalog.**
- To be in compliance with the new Core Curriculum requirement for Cultural Discourse.**
- ~~The *The course content of CHEM 101/111 MATH 220 and CHEM 107/117 is CSCE 222/ECEN 222 are too similar to allow credit for both courses.~~
- There is no longer other courses equivalent to CHEM 102/CHEM 112, so the Limitation is no longer needed.**
- This course is foundational and fundamental to virtually all upper level coursework in our degrees and as such, we are moving this course to a number that will more accurately reflect its inherent maturity level, and to stress the course's importance and pivotal role within our degree programs. As CSCE 285, 289, and 291 are directed studies/research courses, they are not acceptable for CSCE elective credit.*Removing MATH 150 from the ineligible General Elective list will assist students with the new Financial Aid regulations.*The Undergraduate Studies Committee wanted to specifically list the**

In Workflow

- MATH Department Head**
- Curricular Services Review**
- SC Committee Preparer UG**
- SC Committee Chair UG**
- SC College Dean UG**
- UCC Preparer**
- UCC Chair**
- Faculty Senate Preparer**
- Faculty Senate
- Provost II
- President
- Curricular Services

Approval Path

- 11/07/18 4:41 pm
Emil Straube (e-straube): Approved for MATH Department Head
- 11/09/18 9:58 am
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
- 11/12/18 2:04 pm
Sara Thigpin (sarathigpin): Approved for SC Committee Preparer UG
- 11/12/18 4:52 pm
Lucas Macri (lmacri): Approved for SC Committee Chair UG
- 11/12/18 4:54 pm
Lucas Macri (lmacri): Approved for SC College Dean UG
- 11/14/18 10:49 am
Sandra Williams (sandra-williams): Approved for UCC Preparer
- 12/10/18 11:19 am
Terra Bissett (t.bissett): Approved for UCC Chair

History

- Feb 23, 2017 by Donna Hoffman (donnalh)
- Apr 5, 2017 by Angela Allensworth (arankin)

acceptable STAT electives as the range of STAT 404 – 482. This range of courses should also be included in Major GPR calculations.

3. Mar 19, 2018 by Donna Hoffman (donna1h)

Program hours	120
Is this program eligible for financial aid?	No
Will program hours change (increase/decrease) due to the proposed curriculum changes?	No
Program delivery mode	On-campus

Catalog Program Requirements

Plan of Study Grid

First Year		Semester Credit Hours
Fall		
ENGL 104	Composition and Rhetoric	3
	or ENGL 103 or Introduction to Rhetoric and Composition	
MATH 171	Analytic Geometry and Calculus	4
	Select one of the following:	3
	American History	
	Government/Political science	
	Freshman Science elective 1	4
	Elective hours 2	1
	Semester Credit Hours	15
Spring		
MATH 172	Calculus	4
	Select one of the following:	3
	American History	
	Government/Political science	
	Select one of the following:	4
	CSCE 110 Programming I	
	CSCE 111 Introduction to Computer Science Concepts and Programming	
	CSCE 121 Introduction to Program Design and Concepts	
	CSCE 206 Structured Programming in C	
	Freshman Science elective 1	4
	Elective hours 2	1
	Semester Credit Hours	16
Second Year		
Fall		
MATH 220	Foundations of Mathematics	3
MATH 300	Foundations of Mathematics	3
MATH 221	Several Variable Calculus	4
STAT 211	Principles of Statistics I	3
	Select one of the following:	3
	American History	
	Government/Political science	
	Language, philosophy and culture 3	3
	Semester Credit Hours	16
Spring		
MATH 308	Differential Equations	3
MATH 323	Linear Algebra	3
	Select one of the following:	3
	American History	
	Government/Political science	
	Select one of the following:	3
	COMM 203 Public Speaking	
	COMM 205 Communication for Technical Professions	
	COMM 243 Argumentation and Debate	
	Minor elective 4	3
	Semester Credit Hours	15

Third Year		
Fall		
MATH 409	Advanced Calculus I	3
PHYS 218	Mechanics	4
PHYS 206	Newtonian Mechanics for Engineering and Science	3
PHYS 226	Physics of Motion Laboratory for the Sciences	1
Elective hours 5		3
Minor elective 4		3
Semester Credit Hours		13
Spring		
Select one of the following:		3
MATH 415	Modern Algebra I	
MATH 423	Linear Algebra II	
MATH 433	Applied Algebra	
MATH elective	6	3
Minor electives 4		6
Elective hours 5		3
Semester Credit Hours		15
Fourth Year		
Fall		
MATH elective	6	6
Select one of the following: 7		3
Creative Arts		
Social and behavioral sciences		
Elective hours 2		3
Minor elective 4		3
Semester Credit Hours		15
Spring		
MATH elective	6	3
Select one of the following: 7		3
Creative arts		
Social and behavioral sciences		
Elective hours 2		6
Minor elective 4		3
Semester Credit Hours		15
Total Semester Credit Hours		120

1 Select 4 hours from: [ASTR 111](#), [BIOL 111](#), [BIOL 112](#), [CHEM 119](#), [CHEM 120](#), [CHEM 107/CHEM 117](#), [PHYS 207/PHYS 227](#). The remaining 4 hours may be selected from: [ASTR 111](#), [ATMO 201/ATMO 202](#), [BIOL 111](#), [BIOL 112](#), [CHEM 119](#), [CHEM 120](#), [CHEM 107/CHEM 117](#), [GEOL 101/GEOL 102](#), [OCNG 251/OCNG 252](#), [PHYS 207/PHYS 227](#).

2 [MATH 170](#) is highly recommended for math majors co-enrolled in [MATH 150](#), [MATH 151](#), [MATH 152](#), [MATH 171](#) or [MATH 172](#).

3 Select 3 hours from any 200-400 level [Language, philosophy and culture](#) course.

4 A 15-18-hour minor field of study should be chosen in conference with a departmental advisor.

5 Three hours of courses must be in the area of [International Cultural Diversity](#), and 3 hours of courses must be in the area of [Cultural Discourse](#). These may be in addition to other University Core Curriculum courses, or if a course in this category satisfies an area of the Core, it can be used to meet both requirements. Students desiring teacher certification should consult the requirements for certification before registering for electives.

Remaining electives may be selected from any 100-499 course not used elsewhere, (except [ALED 125](#); [ASCC 102](#); [ASTR 109/PHYS 109](#), [ASTR 119/PHYS 119](#); [BMEN 101](#); [BUSN 100](#); [ISEN 101](#); [KINE 199](#); [LAND 101](#); [MATH 102 - 148](#), [MATH 151 - 166](#), [MATH 304](#), [MATH 309](#), [MATH 311](#), [MATH 367](#), [MATH 368](#), [MATH 375](#), [MATH 376](#); [PHYS 109/ASTR 109](#), [PHYS 119/ASTR 119](#), [PHYS 201](#), [PHYS 202](#), [PHYS 205](#); [PSYC 301](#); [STAT 201](#), [STAT 301](#), [STAT 302](#), [STAT 303](#); [URPN 200](#); [WFSC 101](#)).

6 Nine of the 12 hours of math elective courses are to be from any 400- or 600-level MATH, excluding [MATH 401](#) and [MATH 601](#). The last three hours can be from any 400- or 600-level MATH (excluding [MATH 401](#) or [MATH 601](#)), [STAT 404 - STAT 482](#), [CSCE 210 - CSCE 470](#) (excluding [CSCE 222/ECEN 222](#), [CSCE 285](#), [CSCE 289](#), [CSCE 291](#)), or [ISEN 320 - ISEN 430](#), excluding any 485 course in any department without permission of a departmental advisor. Students seeking secondary certification must take [MATH 403](#), [MATH 467](#), and either [MATH 415](#) or [MATH 433](#). Students who plan to attend graduate school are encouraged to take [MATH 416](#), [MATH 447](#) and at least one 600-level course.

7 Three hours must be [social and behavioral sciences](#) and three hours must be [creative arts](#).

Maximum of 4 hours of [MATH 147](#), [MATH 151](#), or [MATH 171](#) may be used in this degree program.

Maximum of 4 hours of [MATH 148](#), [MATH 152](#), or [MATH 172](#) may be used in this degree program.

Maximum of 3 hours of [MATH 300](#), [MATH 220](#) or [CSCE 222/ECEN 222](#) may be used in this degree program.

Maximum of 3 hours of [MATH 411](#) or [STAT 414](#) may be used in this degree program.

Maximum of 3 hours of [MATH 417](#), [MATH 437](#), or [CSCE 442](#) may be used in this degree program.

Maximum of 4 hours of [CHEM 119](#), [CHEM 107/CHEM 117](#) may be used in this degree program.

If a grade of D or F is earned in any of the following courses, [MATH 151/MATH 171](#), [MATH 152/MATH 172](#), [MATH 221/MATH 251/MATH 253](#), [MATH 300](#), [MATH 220](#), [MATH 323](#) or [MATH 308](#), this course must be immediately retaken and a grade of C or better earned. The department will allow at most two Ds in upper-level (325-499) courses. If a third D is earned, one of the three courses in which a D was earned must be retaken and a grade of C or better earned.

Additional information	Description of changes:
Required Proposal Forms	<p>ba_math_17c.pdf BA MATH.pdf 012218PresidentApprovalMemo.pdf ba_math.pdf</p>
Reviewer Comments	Terra Bissett (t.bissett) (12/10/18 11:19 am): UCC approved December 2018.

- Must make a grade of 'C' or better.
- No AND B. MATH ~~220~~³²⁰ 3hrs
Must make a grade of 'C' or better.
- No AND C. MATH 323 3hrs
Must make a grade of 'C' or better.
- No AND D. MATH 308 3hrs
Must make a grade of 'C' or better.
- No AND E. MATH 409 3hrs
- No AND F. Algebra 3hrs
Select from MATH 415, 422, 433
Students seeking secondary certification must take Math 415 or Math 433.
- No AND G. MATH/ENGR Elect 3hrs
Select from CSCE 210-470 (except CSCE 222, 285, 289, 291); ISEN 320-430; MATH 403-499; STAT 402-482.
- No AND H. MATH Elect 9hrs
Select from MATH 325, 403-499.
Students seeking secondary certification must take MATH 403 and 467.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Supporting Coursework (7.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	STAT 211												
No	AND	B.	Computer Science Rqmt	4hrs											
Select from CSCE 110, 111, 121, 206.															

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Communication (6.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	ENGL 103 or ENGL 104	3hrs											
No	AND	B.	Communication Rqmt	3hrs											
Select from COMM 203, 205 or 243.															

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Mathematics (8.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	MATH 171	4hrs											
Must make a grade of 'C' or better.															
No	AND	B.	MATH 172	4hrs											
Must make a grade of 'C' or better.															

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Life and Physical Sciences (12.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No A. PHYS 206/226 4 hrs

No AND

B. Science Rqmt 4 hrs

Select from ASTR 111; BIOL 111, BIOL 112; CHEM 119, 120, 107/ 117; PHYS 207/227.

No AND

C. Science Rqmt II 4hrs

Select from ASTR 111; ATMO 201/202; BIOL 111, 112; CHEM 119, 120, 107/117; GEOL 101/102; OCNG 251/252; PHYS 207/227.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Language, Philosophy & Culture (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Language, Philosophy & Culture
Select from any 200-499 course with the [KLPC] attribute.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Creative Arts (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Creative Arts Requirement 3 hrs
Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Sciences (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Social Science Rqmt 3 hrs
Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000 .00

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Area : Citizenship (12.000 credits) - Not Met

Description Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. American History Rqmt 6 hrs
Select from any course with the [KHIS] attribute.

No AND B. Political Science Rqmt 6 hrs
Take POLS 206 and POLS 207.

Total Credits and GPA 0.000 .00

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Area General Electives (35.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No	A.		General Electives 35hrs													
			Select any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; BMEN 101; BUSN 100; ISEN 101; KINE 199; LAND 101; MATH 102-148, 151-166, 304, 309, 311, 367, 368, 375, 376; PHYS 109/119, 201, 202, 205; PSYC 301; STAT 201, 301-303; STLE 102 ; URPN 200; WFSC 101).													
														Total Credits and GPA	0.000	.00

ASEC102;

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Area : Work Not Applied - Met

Description See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No	A.		Courses not applied													
														Total Credits and GPA	0.000	.00

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Area CLSC BA Required Minor - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No	A.		Required Minor													
														Minor requirement not needed if minor requirement is waived by the Dean's Office.		
														Total Credits and GPA	0.000	.00

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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 MATH 100-499; RDNG 372; STAT 407; or UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.		
														Total Credits and GPA	0.000	.00

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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 ³ hr													
														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
														B. Cultural Discourse 3 hrs		

Cultural Discourse

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Area Foreign Language - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Foreign Language Rqmt

Complete one of the following:
 1. Two years of the same foreign language in High School.
 2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000 .00

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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								
No	AND		B.	Residence 300-499			24hrs								

Total Credits and GPA 0.000 .00

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Area : GPR-Major - Not Met

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

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No			A.	Major GPR			39+hrs								
				Includes MATH 151-499; STAT 211-212; CSCE 203-470; STAT 404-482; ISEN 320-489.											

Total Credits and GPA 0.000 .00

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