Program Change Request

Date Submitted: 11/07/18 3:34 pm

Viewing: BA/MS-MATH/MATH-FTR : Mathematics - 5-Year Bachelor of Arts/Master of Science in Mathematics

Last approved: 03/21/18 9:59 am
Last edit: 11/09/18 10:02 am
Changes proposed by: donnalh

<table>
<thead>
<tr>
<th>Catalog Pages Using this Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics - 5-Year Bachelor of Arts/Master of Science in Mathematics</td>
</tr>
</tbody>
</table>

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donna Hoffman</td>
<td><a href="mailto:donnalh@tamu.edu">donnalh@tamu.edu</a></td>
<td>979-862-4306</td>
</tr>
</tbody>
</table>

Academic level: Undergraduate-Graduate  
Effective Term: 2019-2020  
Department: Mathematics  
Department 2: Mathematics  
College: Science  
College 2: Science  
Program type: Combination  
Degree designation: BA/MS - Bachelor of Arts/Master of Science  
With a major in: Mathematics/Mathematics (MATH/MATH)  
Associated Program: Not Applicable  
With a concentration in: Fast Track (FTR)  
Catalog Program Title: Mathematics - 5-Year Bachelor of Arts/Master of Science in Mathematics  
CIP and Fund code: 27010100

Rationale for Proposal

1. To comply with new course numbers established by the Chemistry Department.
2. To comply with new course numbers established by the Physics Department.
3. To comply with new course number established by the Academic Success Center.
4. To comply with new course numbers established by the Physics Department.
5. To be in compliance with the new Core Curriculum requirement for Cultural Discourse.
6. *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, and OCNG 251/OCNG 252, PHYS 208 have been approved by Undergraduate Studies Committee as eligible to satisfy the Freshman Science requirement. Adding ATMO 201/ATMO 202, GEOL 101/GEOL 102 and OCNG 251/OCNG 252, PHYS 208 as an option for 4 credits will allow students more flexibility in their degree plans. The course content of CHEM 119 MATH 220 and CHEM 107/CHEM 117 GECE 222/ECEN 222 is too similar to allow credit for both courses.
7. There is no longer other courses equivalent to CHEM 102/CHEM 112, so the Limitation is no longer needed.
8. 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 in our degree programs.

https://nextcatalog.tamu.edu/courseleaf/approve/?role=Faculty%20Senate
Catalog Program Requirements

Plan of Study Grid

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

Minor elective 4
- Semester Credit Hours
- 3

**Third Year**

**Fall**
- **MATH 409** Advanced Calculus I
- **PHYS 218** Mechanics
- **PHYS 206** Newtonian Mechanics for Engineering and Science and Physics of Motion Laboratory for the Sciences

Minor elective 4
- Elective hours 5
- Semester Credit Hours
- 3
- 3
- 3

**Spring**

Select one from:
- **MATH 415** Modern Algebra I
- **MATH 423** Linear Algebra II
- **MATH 433** Applied Algebra

Select one from:
- **CSCE 210-CSCE 470**
- **ISEN 320-ISEN 430**
- **MATH 403-MATH 499**
- **STAT 404-STAT 482**

Minor electives 4
- Elective hours 5
- Semester Credit Hours
- 3
- 3
- 13

**Fourth Year**

**Fall**

Select from:
- **MATH 603-MATH 628**
- **MATH 630-MATH 639**
- **MATH 641-MATH 644**
- **MATH 647-MATH 684**

Select one of the following:
- Creative arts
- Social and behavioral sciences

Minor elective 4
- Elective hours 5
- Semester Credit Hours
- 3
- 3
- 15

**Spring**

Select one from:
- **MATH 325** The Mathematics of Interest
- **MATH 403-MATH 499**

Select one of the following:
- Creative arts
- Social and behavioral sciences

Minor elective 4
- Elective hours 5
- Semester Credit Hours
- 3
- 3
- 15

**Fifth Year**

**Fall**

Graduate Degree 9
- Semester Credit Hours
- 36

Semester Credit Hours
- 36

Total Semester Credit Hours
- 36

1. **MATH 170** is highly recommended for math majors co-enrolled in **MATH 150, MATH 151, MATH 152, MATH 171** or **MATH 172**.
2. 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, ATM0 201/ATMO 202, BIOL 111, BIOL 112, CHEM 119, CHEM 120, CHEM 107/CHEM 117, GEOL 101/GEOL 102, GCNG 251/GCNG 252, PHYS 207/PHYS 227**.
3. Select three 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 and cultural diversity** and three 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, 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 - 303; URPN 200; WFS 101).

7. This 6 hours will be applied towards both BA and MS degrees in Mathematics.
8. Three hours must be social and behavioral sciences and three hours must be creative arts.
9. The overall program hours (156 hours) includes 36 hours for a non-thesis option or 32 hours for a thesis option (up to six of which are MATH 691). Up to six hours of graduate courses may double count. MATH 601 is prohibited for all graduate degree plans. Except for the MS teaching track, no distance class may be used on the degree plan nor may MATH 696 appear. For the MS teaching track, students must take four distance courses: MATH 629, MATH 645, MATH 646 and MATH 696. All five tracks require at least 24 credit hours of mathematics of which at most six may be undergraduate. Depending on the MS track, courses outside of mathematics may be required or optional. For additional information, reference https://www.math.tamu.edu/graduate/masters and select the track of interest.

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 or 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 220 to MATH 300 in Second Year Fall Semester, the statement, “Maximum of 3 hours of MATH 300 or CSCE 222/ECEN 222 may be used in this degree program” in the Undergraduate Catalog page listing ICD courses. To change Rule B. of Cultural Discourse in Howdy Degree Evaluation.

1. To change the course number of CHEM 101/111 to CHEM 119 and CHEM 102/112 to CHEM 120 in Footnote 2. and in Rule B. and Rule C. of Life and Physical Sciences in Howdy Degree Evaluation.
2. To change the course number of PHYS 208 to PHYS207/PHYS227 in Footnote 2. and in Rule B. and Rule C. of Life and Physical Sciences in Howdy Degree Evaluation.
3. To change the course number of STLC 102 to ASCC 102 in Footnote 5. and in Rule A. of General Electives in Howdy Degree Evaluation.
4. To change the course number of PHYS 218 to PHYS206/PHYS226 in Third Year Fall Semester and in Rule A. of Life and Physical Sciences in Howdy Degree Evaluation.
5. To change the wording in Footnote 5. to reflect the new requirement of 3 hrs of Cultural Discourse and add link to the Catalog page listing ICD courses. To change Rule A. of International Cultural Diversity to 3 hrs and add Rule B. of Cultural Discourse for 3 hrs in Howdy Degree Evaluation.
6. To add the statement, “Maximum of 4 hours of CHEM 119, CHEM 107/Chem 117 may be used in this degree program” to the Undergraduate Catalog and update the corresponding Limitation in Howdy Degree Evaluation.
7. To remove the Limitation, “Maximum of 4 hours of CHEM 102, 112 may be used in this degree program” in Howdy Degree Evaluation.
8. To change MATH 220 to MATH 300 in Second Year Fall Semester, the statement, “Maximum of 3 hours of MATH 300 or CSCE 222/ECEN 222 may be used in this degree program” in the Departmental GPR Requirements in the Undergraduate Catalog. To change MATH 220 to MATH 300 in Rule B. of Major Coursework and the corresponding Limitation in Howdy Degree Evaluation. 3.21.18 - Update to table format.

Required Proposal Forms

ba_math_5yr.pdf
BA-MATH-EPR.pdf
012218PresidentApprovalMemo.pdf
ba_math_5yr.pdf

Information for Degree Evaluation

This is NOT an official evaluation.

Print Instructions

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 50% of courses required for the degree plan can be taken as Distance Education Courses for non-distance degree programs.

Limitation Maximum of 3 hours of MATH 229 or CSCE/ECEN 222 may be used in this degree program.

Limitation Maximum of 4 hours of CHEN 119, CHEM 107/CHEN 117 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 112 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 417, 437 or CSCE 442 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 411 or STAT 414 may be used in this degree program.

Limitation Only one of the following will satisfy the requirements for a degree: GENE 301, GENE 302, GENE 315 and GENE 320.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 131, MATH 142, MATH 147, MATH 151 and MATH 171.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 140, MATH 141 and MATH 166.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 148, MATH 152 and MATH 172.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 221, MATH 251 and MATH 253.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 304, MATH 309, MATH 311 and MATH 323.

Limitation Only one of the following will satisfy the requirements for a degree: STAT 301, STAT 302 or STAT 303.

<table>
<thead>
<tr>
<th>Program</th>
<th>BA MATH 5YR</th>
<th>Catalog Term:</th>
<th>Fall 2018 - College Station</th>
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<tbody>
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<td>Evaluation Term:</td>
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<td>Overall GPA:</td>
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Other Course Information

Transfer: 0.000 0

This is NOT an official evaluation.

Area Major Coursework (31,000 credits) - Not Met

Met Condition Rule Subject Attribute Low Hit Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source

No A. MATH 221 4hrs

Detail Requirements

No AND B. MATH 220 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, 423, 433.

No AND G. MATH/ENGR Elect 3hrs
Select from CSCE 210-470; ISEN 320-433; MATH 403-499;
STAT 407-415.

No AND H. Undergraduate MATH Elect 3hrs
Select from MATH 325, 403-499.
Students seeking secondary certification must take MATH 403
and 407.

No AND I. Graduate MATH Elect 6hrs
Select from MATH 603-620; 630-639, 641-644, 647-684.
This 6 hours will satisfy the requirements for both BA and MS
degrees in Mathematics.

Total Credits and GPA 0.000 00

unofficial evaluation

Area Supporting Coursework (7.000 credits) - Not Met

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<tr>
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Total Credits and GPA 0.000 00

unofficial evaluation

Area Communication (6.000 credits) - Not Met

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<tr>
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<td>ENGL 103 or ENGL 104</td>
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Total Credits and GPA 0.000 00

unofficial evaluation

Area Mathematics (8.000 credits) - Not Met

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<tr>
<td>No</td>
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<td>MATH 171</td>
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</table>

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
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
No A. Language, Philosophy & Culture
Select 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
No A. Creative Arts Requirement 3hrs
Select any course from any course with the Creative Arts attribute [KCA].
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
No A. Social Science Rqmt 3hrs
Select any course from any course with the Social and Behavioral Science attribute [KSO].
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
No A. American History Rqmt 6hrs
Select any course from any course with the [KHIS] attribute.
No AND B. Political Science Rqmt 6hrs
Take POLS 206 and POLS 207.
Total Credits and GPA 0.000 .00

unofficial evaluation

### Area General Electives (35.000 credits) - Not Met

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<th>Attribute</th>
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<tr>
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Select any 100-499 course not used elsewhere, (except ALED 125; ASTR 105/119; BMEN 101; BUSN 100; ISEN 101; KNME 199; LAND 10; MATH 102-148, 151-186, 304, 309, 311, 367, 368, 375, 376; PHYS 103/119, 201, 202, 205; PSYC 301; STAT 201, 301-303; SHCE 499; URPN 200; WFS 101).  

**unofficial evaluation**

### Area Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
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<tbody>
<tr>
<td>No</td>
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**unofficial evaluation**

### Area CLSC BA Required Minor - Not Met

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<th>Low</th>
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<th>Required Credits</th>
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<tr>
<td>No</td>
<td>A. Required Minor</td>
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Minor requirement not needed if minor requirement is waived by the Dean's Office.

**unofficial evaluation**

### Area University Writing Requirement - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Required Credits</th>
<th>Required Courses</th>
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<tr>
<td>No</td>
<td>A. Writing Requirement</td>
<td></td>
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</table>

Two courses required.  
Only sections of MATH 100-489; EDNG 372; STAT 407; or UGST 491 may count as the Writing attribute [WRT] may be used to satisfy this requirement.

**unofficial evaluation**

### Area Int'l & Cult Diversity - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Required Credits</th>
<th>Required Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity</td>
<td>3 hrs</td>
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</table>

Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the HUMNT attribute).  

B. Cultural Discourse 3 hrs

**unofficial evaluation**
<table>
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<tr>
<th>Area</th>
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<th>Met</th>
<th>Condition</th>
<th>Rule</th>
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<th>Low High</th>
<th>Required</th>
<th>Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>GPA</th>
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<tr>
<td><strong>Foreign Language - Not Met</strong></td>
<td>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.</td>
<td>No</td>
<td>A.</td>
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<td><strong>Residence Requirement - Not Met</strong></td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
<td>No</td>
<td>AND</td>
<td>B.</td>
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<tr>
<td><strong>GPR-Major - Not Met</strong></td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
<td>No</td>
<td>A.</td>
<td></td>
<td></td>
<td>Include the following courses: CSCE 203-470; ISEN 320-489; MATH 151-499 (except MATH 165, 170), MATH 603-628, 630-639, 641-644, 647-684, STAT 211-212, 407-415.</td>
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