UNIVERSITY STUDIES - BS, MATHEMATICS FOR BUSINESS CONCENTRATION

The Bachelor of Science in University Studies, Mathematics for Business area of concentration consists of courses that are designed to give students who are both interested in business and mathematically inclined a way to combine both interests.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Foundations of Mathematics ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>The Mathematics of Interest</td>
<td>3</td>
</tr>
<tr>
<td>MATH 425</td>
<td>The Mathematics of Contingent Claims</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Engineering Mathematics III ¹</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 22 or Several Variable Calculus</td>
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<td></td>
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<tr>
<td>MATH 304</td>
<td>Linear Algebra ¹</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 323 or Linear Algebra</td>
<td></td>
<td></td>
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<tr>
<td>MATH 442</td>
<td>Mathematical Modeling</td>
<td>3</td>
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<tr>
<td>or STAT 401 or Introduction to Linear Models</td>
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<td></td>
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</tbody>
</table>

University and College Requirements

ENGL 104 Communication 3

Select one of the following:

- COMM 203 Public Speaking
- COMM 205 Communication for Technical Professions
- COMM 243 Argumentation and Debate

Mathematics

- MATH 151 Engineering Mathematics I ¹ 4
  or MATH 171 or Analytic Geometry and Calculus
- MATH 152 Engineering Mathematics II ¹ 4
  or MATH 17 or Calculus

Life and physical sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences) 9

Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ³ 3

Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ³ 3

Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ³ 3

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 6

POLS 206 American National Government ² 3
POLS 207 State and Local Government ² 3

Minor 1 15-18
Minor 2 15-18

General Electives ³ 16-22

Total Semester Credit Hours 120

¹ Must make a grade of 'C' or better.
² Completion of four semesters of upper-level ROTC may be substituted for three hours of the requirement.
³ Electives may be selected from any 100-499 course not used elsewhere, (except ALED 125; ASTR 109/PHYS 109, ASTR 119/PHYS 119; BMEN 101; BUSN 100; ISEN 101; KINE 199; LAND 101; MATH 102-166 (http://catalog.tamu.edu/undergraduate/course-descriptions/math), 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 (http://catalog.tamu.edu/undergraduate/course-descriptions/stat); STLC 102; URPN 200; WFSC 101).

Select 3 hours from any 200-499 level course.

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.