**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 251</td>
<td>Engineering Mathematics III $^1$</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 221 or Several Variable Calculus</td>
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<tr>
<td>MATH 300</td>
<td>Foundations of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 304</td>
<td>Linear Algebra $^1$</td>
<td>3</td>
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<tr>
<td>or MATH 323 or Linear Algebra</td>
<td></td>
<td></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>MATH 442</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 408 or Introduction to Linear Models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
<td>3</td>
</tr>
</tbody>
</table>

### University and College Requirements

- **ENGL 103** Introduction to Rhetoric and Composition
  - or ENGL 105 Composition and Rhetoric
  - or ENGL 106 Composition and Rhetoric

- **POLS 206** American National Government $^2$

- **POLS 207** State and Local Government $^2$

- **Communication**
  - Select one of the following:
    - COMM 203 Public Speaking
    - COMM 205 Communication for Technical Professions
    - COMM 243 Argumentation and Debate

### Mathematics

- Select one of the following:
  - **MATH 147** Calculus I for Biological Sciences $^1$
  - **MATH 151** Engineering Mathematics I $^1$
  - **MATH 171** Analytic Geometry and Calculus $^1$

- Select one of the following:
  - **MATH 148** Calculus II for Biological Sciences $^1$
  - **MATH 152** Engineering Mathematics II $^1$
  - **MATH 172** Calculus $^1$

- **American history**
  - **Creative arts**

- **Life and physical sciences**

- **Language, philosophy and culture**

- **Social and behavioral sciences**

**Minor 1** 15-18
**Minor 2** 15-18
**General Electives** $^4$ 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.
$^3$ Select 3 hours from any 200-499 level course.
$^4$ 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 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. 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; PHYS 202; PHYS 205; PSYC 301; STAT 201; STAT 301 - 303; WFSC 101.

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 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.