## Graduation Requirements

<table>
<thead>
<tr>
<th>Academic level</th>
<th>Required GPA</th>
<th>Actual GPA</th>
<th>GPA Status</th>
<th>Requirement Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Career</td>
<td>2.000</td>
<td></td>
<td>Not Satisfied</td>
<td>Fall 2021</td>
</tr>
<tr>
<td>Mathematics Major (BS)</td>
<td>2.000</td>
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<tr>
<td>Economics and Business Emphasis</td>
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<td>Fall 2021</td>
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<table>
<thead>
<tr>
<th>Unit Requirements</th>
<th>Required Units</th>
<th>Total Units *</th>
<th>In Progress Units</th>
<th>Unit Status</th>
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<tbody>
<tr>
<td>Units Required for this Degree</td>
<td>120.00</td>
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<td>Upper Division Units</td>
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<td>Units in Residence</td>
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<tr>
<td>Upper Division Units in Residence</td>
<td>18.00</td>
<td>0.00</td>
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<td>Not Satisfied</td>
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</table>

*Total Units and Requirement Status include In Progress Units. In Progress Units are comprised of all ungraded coursework, including future enrollments. Credit from repeated courses is excluded from the In Progress and Total Units unless the student has filed a Grade Replacement Opportunity (GRO) request. If a GRO request has been filed the GRO units will be excluded when the course is graded. Credit from developmental courses (e.g. MATH/SAS 100AX) is only temporarily included in the In Progress and Total Units and will also be excluded when graded. Note: Credit for a course can only be given once, unless otherwise specified in the course catalog.

Credit Type – EN=Enrollment at UA, IP=In Progress, TR=Transfer Credit, TE=Test Credit

### Undergraduate Graduation Requirements

All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

**Curriculum:**
1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

**Required Units:**
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes their academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) Candidates for a second bachelor's degree at The University of Arizona with a different award date than the first must earn no fewer than 30 units of University Credit in addition to the units required for the first degree, and must meet all requirements for the second degree.

**Correspondence and/or Exam Credit Limit**
(P everyone credit may apply toward graduation.

- Units: 0.00 completed

**Non Degree Seeking Limit**
A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements.
Units exceeding this limit (shown below) must be subtracted from the units required towards the degree and graduation requirements.
Non-Community College Units

Not Satisfied: Non-Community College Units: While there is no limit to the total number of units of course work that may be transferred from an accredited community college to The University of Arizona, no more than 64 units from a 2-year institution may be applied toward the requirements for a bachelor's degree. Therefore, to reach the required 120 units for a bachelor's degree, a minimum of 56 units must be completed from 1) coursework at a 4-year institution, 2) approved credit by examination (refer to UA Catalog for approved examinations and scores), or 3) any combination thereof.

- Units: 56.00 required, 0.00 completed, 56.00 needed

Success Course Limit

Satisfied: No more than 3 units will apply toward a student's graduation requirements.
All Success courses taken can be seen below. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

PE Activity Course Limit

Satisfied: No more than 3 units will apply toward a student's graduation requirements.
All PE activity courses taken can be seen below. PE Activity units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

Foundation Mathematics

Not Satisfied: Foundation Mathematics

GE Substantial Math Strand

Not Satisfied: Complete 1 course.

GE Substantial Math Strand

Not Satisfied: Complete 1 course.

- Units: 2.67 required, 0.00 completed, 2.67 needed

Courses Available

MATH 122B, MATH 125, MATH 129, MATH 215, MATH 223, MATH 254, MATH 313

Undergraduate General Education and Foundation Requirements

Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Complete 1 of the following 4 Foundation Composition options:
1. 3 Course Foundation Composition Sequence
2. 2 Course Foundation Composition Sequence
3. Honors Composition with grade of C or higher
4. Honors Composition with a grade of D and Second Semester Composition.
Please note: Students who earn a grade of D in Honors Composition may choose to repeat the course in order to earn a higher grade to satisfy the requirement. Please consult with your major advisor.

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

Option 1: Foundation Composition - 3 Course Sequence
   **Not Satisfied:** Complete 3 courses. Complete ENGL 106 AND ENGL 101/107 AND ENGL 102/108.
   - **Courses:** 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

ENGL 1EIB, ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, (***) (###), ENGL 102, ENGL 108, ENGL 106

OR Option 2: Foundation Composition - 2 Course Sequence
   **Not Satisfied:** Complete 2 courses. Complete ENGL 101/107 AND ENGL 102/108
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

ENGL 1EIB, ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, (***) (###), ENGL 102, ENGL 108

OR Option 3: Honors Composition
   **Not Satisfied:** Complete 1 course with a C or better.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ENGL 109H

**Foundation Second Language - Second Semester Proficiency**
   **Not Satisfied:** Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must be taken for a grade, not as pass/fail. Third semester or higher courses used to fulfill this requirement may also be used to fulfill other requirements. A grade of C or higher is required in the course that satisfies the second language requirement.

Demonstrate second semester proficiency in a second language by completing a sequence of courses through a second semester or higher level or by passing a language proficiency examination at the second semester level or higher.

**Second Semester Language Course**
**Not Satisfied:** Complete 1 course with a grade of C or better.


- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

AIS 104B, AIS 307B, ARB 102, CHN 102, CRL 102, FREN 102, FREN 112, GER 102, GRK 102, GRK 104, GRK 112, ITAL 102, ITAL 102Z, JPN 102, KOR 102, LAS 305A, LAT 102, LAT 112, LING 104B, LING 307B, MENA 103B, PORT 102, PORT 305A, PORT 325A, PRS 102, RSSS 102, SERP 370B, SPAN 102, SPAN 103, SPAN 205, TURK 102

**General Education Tier I**

**Not Satisfied:** Complete each of the following areas.

**Tier I Individuals & Societies/150s**

**Not Satisfied:** Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

(***) (###), AFAS 150B1, ANTH 150B1, ART 150B1, ART 150B2, EAS 150B1, EDP 150B1, ENGL 150B1, ENGL 150B2, ESOC 150B1, FREN 150B1, FSHD 150B1, FTV 150B1, GEOG 150B1, GEOG 150B2, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, GWS 150B5, HNRS 150B1, HNRS 150B2, HUMS 150B1, ITAL 150B1, LAR 150B1, LAS 150B1, MAS 150B1, MAS 150B2, MIS 150B1, PAH 150B1, PHIL 150B1, POL 150B1, RCSC 150B1, RCSC 150B2, RELI 150B1, RSSS 150B1, RSSS 150B2, SOC 150B1, SOC 150B2, SPAN 150B1, SPAN 150B2, TLS 150B1, AED 150A1, ANTH 150A1, ART 150A1, ENGL 150A1, GER 150A1, HNRS 150A1, HNRS 150A1, LING 150A1, MIS 150A1, PAH 150A1, PAH 150A2, PAH 150A3, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, ANTH 150C1, AREC 150C1, AREC 150C2, AREC 150C3, CLAS 150C1, ECON 150C1, FIN 150C1, FREN 150C1, FREN 150C1, GEOG 150C1, GEOG 150C2, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HNRS 150C1, ITAL 150C1, JOUR 150C1, LAS 150B1, LING 150C1, MAS 150C1, MENA 150C1, MSC 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, PPEL 150C1, RNR 150C1, SOC 150C1, SOC 150C2, TES 150C1, TES 150C2

**Tier I Traditions & Cultures/160s**

**Not Satisfied:** Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

<table>
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<tr>
<th>Term</th>
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</table>
Courses Available


General Education Tier II

Not Satisfied: Complete each of the following areas.

Tier II Arts

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units.

- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available


Tier II Humanities

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units. Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 325, AFAS 342, AFAS 365, AFAS 374, AFAS 377, AFAS 381, AIS 212, AIS 281, ANTH 222, ANTH 249, ANTH 259, ARC 220, ARC 303, ARC 304, ARH 320, ART 329, ART 360, CHN 241, CHN 245, CHN 345, CLAS 220, CLAS 221, CLAS 222, CLAS 260, CLAS 300, CLAS 312, CLAS 329, CLAS 335, CLAS 342, CLAS 346, CLAS 349, CLAS 351, CLAS 352, CLAS 353, CLAS 355, EAS 201, EAS 358, EAS 359, ENGL 220A, ENGL 220B, ENGL 228, ENGL 229, ENGL 230, ENGL 231, ENGL 245, ENGL 248B, ENGL 260, ENGL 264, ENGL 265, ENGL 266, ENGL 267, ENGL 280, ENGL 342, ENGL 360, ENGL 375, ENGL 377, ENGV 360, FREN 245, FREN 249, FREN 280, FREN 282,
Tier II Individual & Societies

**Not Satisfied:** Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units. Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

<table>
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<tr>
<th>Term</th>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
<th>Grade</th>
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</table>

**Diversity Emphasis Course**

**Not Satisfied:** One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies. Courses used to fulfill this requirement may also be used to fulfill other requirements.
Courses used to fulfill this requirement may also be used to fulfill other requirements. Physiology, or Geosciences.

BS students must complete a two-semester sequence in a laboratory science: choose from Chemistry, Physics, Biology, Physiology, or Geosciences.

Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Courses Available**


**Additional Coursework**

Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions. Consult with your advisor to determine if courses listed in this section may be used to fulfill a requirement or sub-requirement in your degree program.

Courses taken for Pass/Fail option can only count as elective credit. They cannot fulfill any General Education, Major, or Minor requirements.

**BS in Mathematics**

**Not Satisfied:** Will appear fully satisfied when student satisfies Mathematics Supporting Laboratory Science Sequence, Mathematics Application Courses, Mathematics Computer Science, Math Major Core Requirements, and selects an emphasis. All emphases require a minimum of 15 units of 400-level coursework in the major.

The Bachelor of Science in Mathematics requires the same Core Mathematics courses as the BA; BS students must satisfy specialized supporting laboratory science and application course requirements instead of general education courses in Natural Science.

Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

**Mathematics Supporting Laboratory Science Sequence**

**Not Satisfied:** Will appear fully satisfied when student has satisfied one of the approved sequences of laboratory science courses.

BS students must complete a two-semester sequence in a laboratory science: choose from Chemistry, Physics, Biology, Physiology, or Geosciences.

Courses used to fulfill this requirement may also be used to fulfill other requirements.
Option 1: Chemistry I

Not Satisfied: Complete 4 units from Chemistry 141 & 143, 151, 161 & 163

- Units: 4.00 required, 0.00 completed, 4.00 needed

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<tr>
<th>Term</th>
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</table>

Courses Available

CHEM 141, CHEM 143, CHEM 151, CHEM 161, CHEM 163, Approved Transfer Course

AND Option 1: Chemistry II

Not Satisfied: Complete 4 units from Chemistry 142 & 144, 152, 162 & 164

- Units: 4.00 required, 0.00 completed, 4.00 needed

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</table>

Courses Available

CHEM 142, CHEM 144, CHEM 152, CHEM 162, CHEM 164, Approved Transfer Course

OR Option 2: Geosciences

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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<tr>
<th>Term</th>
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Courses Available

GEOS 251

AND Option 2: Geosciences

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 255, GEOS 302, GEOS 304, GEOS 308, GEOS 322

OR Option 3: Biology

Not Satisfied: OR Complete 8 units

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· **Units:** 8.00 required, 0.00 completed, 8.00 needed

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**Courses Available**

- MCB 181L, MCB 181R, Approved Transfer Course, MCB 184, ECOL 182L, ECOL 182R

**OR Option 4: Physiology**

- Not Satisfied: Complete 2 courses

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

- PSIO 201, PSIO 202

**OR Option 5: Introductory Mechanics**

- Not Satisfied: OR Complete one course from Physics 141, 161H.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

- PHYS 141, PHYS 161H

**AND Option 5: Intro Thermodynamics & Optics or Electricity & Magnetism**

- Not Satisfied: AND Complete 1 course from Physics 142, 241, 162H, 261H.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

- PHYS 142, PHYS 162H, PHYS 241, PHYS 261H

**Mathematics Application Courses**

- Not Satisfied: Will appear fully satisfied when student has satisfied 6 units of non-math coursework with a prerequisite or corequisite of at least Calculus I (MATH 122B or higher).
Courses used to fulfill this requirement may also be used to fulfill other requirements.

This requirement does not apply to the Mathematics Education Emphasis.

Courses with Calculus Prerequisite

Not Satisfied: Consult with the advisor to discuss approved courses. Up to 3 units of internship credit (MATH 493) may apply to the application course requirement.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available


Mathematics Supporting Computer Science

Satisfied: Will appear fully satisfied when student satisfies Computer Science requirements.

Computer Science

Not Satisfied: Complete 1 course. Consult your advisor for a list of alternative programming courses.

Courses used to fulfill this requirement may also be used to fulfill other requirements.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 110, CSC 120, CSC 250, ISTA 130

Math Major Core Requirements

Not Satisfied: Will appear fully satisfied when student satisfies Calculus I and other Core Courses.

Calculus I

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed
**Courses Available**

MATH 122B, MATH 125

**Core Courses**

*Not Satisfied:* Complete 5 courses. Credit allowed for only one course in each pair: MATH 313 or MATV 313, MATH 323 or MATV 323, MATH 355 or MATV 355. MATV courses are only available to UA South students.

- **Courses:** 5.00 required, 0.00 completed, 5.00 needed

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**Courses Available**

MATH 129, MATH 223, MATH 313, MATH 323, MATH 355, MATV 313, MATV 323, MATV 355

**Emphasis in Economics/Business**

*Not Satisfied:* Will appear fully satisfied when student satisfies Economics Business Emphasis course requirements, Graduation Requirements, and declares an appropriate minor.

Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

**Economics and Business Emphasis Requirements**

*Not Satisfied:* Will appear fully satisfied when student satisfies the two required Economics/Business emphasis courses, two of the electives, and one advisor approved course.

**Economics/Business Required Courses**

*Not Satisfied:* Complete 2 courses

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

MATH 425A, MATH 464

**Elective 2**

*Not Satisfied:* Complete 2 courses.

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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Page 11 of 13
Courses Available

DATA 462, DATA 468, MATH 413, MATH 425B, MATH 462, MATH 466, MATH 468

Advisor Approved Course

Not Satisfied: Complete one 400-level MATH course in consultation with your math faculty advisor. You may choose from the pre-approved list. If you prefer to select another course, you may do so ONLY if approved by your math faculty advisor.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

DATA 462, DATA 468, MATH 413, MATH 422, MATH 425B, MATH 432, MATH 454, MATH 456, MATH 462, MATH 466, MATH 468, MATH 485

Major 400-level Upper Division

Not Satisfied: A minimum of 15 units of 400-level upper-division major coursework must be completed.

- Units: 15.00 required, 0.00 completed, 15.00 needed

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Economics and Business Emphasis Graduation Requirements

Not Satisfied: Will appear fully satisfied when student satisfies Mid Career Writing Assessment, Major GPA, Residency requirement, and Major Upper Division unit requirement.

Mid Career Writing Assessment

Not Satisfied: Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or higher in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B or higher in 2nd semester English Composition.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Major GPA

Satisfied: A minimum 2.0 GPA is required in the major coursework.

- GPA: 2.000 required, 0.000 completed

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Major Units

Not Satisfied: A minimum of 34 units must be completed in the major.

- Units: 34.00 required, 0.00 completed, 34.00 needed
Major Residency

**Not Satisfied:** A minimum of 18 units in the major must be taken at the University of Arizona.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed

Major Upper Division

**Not Satisfied:** A minimum of 18 units of upper-division major coursework must be completed.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed

Minor Required

**Not Satisfied:** A minor is required for this major. Students must complete one of the following minors:

- Economics Minor
- Business Administration Minor
- Entrepreneurship Minor
- Finance Minor
- Marketing Minor
- Personal & Family Financial Planning Minor
- Sports Management Minor
- Thematic Minor
- Personal & Family Financial Planning Major
- Personal & Family Financial Planning 2 Major (Secondary)