Academic Advisement Report  
UGRD.USCNC.MATHBS.ECONBUS
Undergraduate Career  
College of Science Program  
Mathematics Major (BS)  
Economics and Business Option  
Requirement Term: Fall 2010

**Undergraduate Graduation Requirements** *(RG511)*

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 his/her 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) is completing more than one baccalaureate degree.

The following requirements must be met for graduation.

**Units Required and Cumulative GPA** *(R2903/L10)*

120 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

**Upper Division Units** *(R538/L40)*

Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- **Units**: 42.00 required, 0.00 completed, 42.00 needed

**Units in Residence** *(R538/L60)*

Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- **Units**: 30.00 required, 0.00 completed, 30.00 needed

**Final Units in Residence** *(R538/L70)*

Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

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

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### Correspondence and/or Exam Credit Limit

**Satisfied:** A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

### 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 must be subtracted from the units required towards the degree and graduation requirements.

### Community College Limit

**Not Satisfied:** A maximum of 64 units of community college course work may apply toward graduation. A minimum of 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.

- **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.

Success Course 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:** GE Substantial Math Strand

GE Substantial Math Strand

- **Not Satisfied:** Complete 1 course from MATH 124, 125, 129, 223 TO 499.


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

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**Courses Available**

MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 250A, MATH 254, MATH 254-CC

**Undergraduate General Education and Foundation Requirements**

**Overall Requirement Not Satisfied:** Undergraduate General Education and Foundation Requirements

**Foundation Composition**

**Not Satisfied:** Complete 1 of the following options:
1. First and Second Semester Composition OR
2. Honors Composition

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:** First Semester Composition

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

ENGL 101, ENGL 103H, ENGL 107

**AND Option 1:** Second Semester Composition

**Not Satisfied:** AND Complete 1 course

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

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**Courses Available**

ENGL 102, ENGL 104H, ENGL 108

**OR Option 2:** Honors Composition

**Not Satisfied:** OR 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** (RS21)

**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.

Demonstrate second semester proficiency in a second language by completing a second semester or higher language course or by passing a language proficiency examination at the second semester level or higher.

**Second Semester Language Course** (RS21/L10)

**Not Satisfied:** Complete 1 course.


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

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**Courses Available**

AIS 104B, AIS 307A, ARB 102, CHN 102, CHN 102-CC, CHN 102-SA, CRL 102, CRL 197A, FREN 102, FREN 102-CC, FREN 102-SA, FREN 112, GER 102, GER 102-CC, GRK 102, GRK 102-SA, GRK 104, ITAL 102, ITAL 102-CC, ITAL 102Z, ITAL 102Z-SA, JPN 102, LAT 102, LAT 102-SA, LING 104B, LING 307A, PORT 102, PRS 102, RSSS 101B, RSSS 101B-SA, SERP 370B, SPAN 102, SPAN 102-CC, SPAN 103, TURK 102

**General Education Tier I** (RS22)

**Overall Requirement Not Satisfied:** Complete 2 courses in each of the following areas.

**Tier I Individuals & Societies** (RS22/L10)

**Not Satisfied:** Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103).

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

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**Courses Available**

INDV 101, INDV 101-SA, INDV 102, INDV 102-SA, INDV 103, INDV 103-CC, INDV 103-SA, (***) (###)

**Tier I Traditions & Cultures** (RS22/L30)

**Not Satisfied:** Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104).

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

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Courses Available

TRAD 101, TRAD 101-CC, TRAD 102, TRAD 102-CC, TRAD 103, TRAD 103-SA, TRAD 104, TRAD 104-SA, (***) (###)

General Education Tier II

Overall Requirement Not Satisfied: Complete 1 course from each of the following areas.

Tier II Arts

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available


Tier II Humanities

Not Satisfied: 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.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available


Tier II Individual & Societies

Not Satisfied: Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.
 Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


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.

Diversity Emphasis Course

Not Satisfied: General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

INDV 101 will only fulfill this area if topic taken is “Race, Ethnicity, and the American Dream”.

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
Overall Requirement Not Satisfied: Complete Introductory Chemistry or Natural Sciences.
Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

Mathematics Introductory Chemistry
Overall Requirement Not Satisfied: Complete the Chemistry sequence OR select 1 of the Natural Science sequences. Courses used to fulfill this requirement may also be used to fulfill other requirements

Option 1: Introductory Chemistry
Not Satisfied: Complete CHEM 103A and 104A
- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available
CHEM 103A, CHEM 103A-CC, CHEM 104A

OR Option 2: Introductory Chemistry
Not Satisfied: OR Complete Chem 151
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
CHEM 151, (***) (###)

OR Option 3: Introductory Chemistry
Not Satisfied: OR Complete CHEM 105A and 106A

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Courses Available
CHEM 151, (***) (###)
· **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CHEM 105A, CHEM 106A

**AND Option 1:** Introductory Chemistry II

**Not Satisfied:** AND Complete CHEM 103B and 104B

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

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**Courses Available**

CHEM 103B, CHEM 103B-CC, CHEM 104B

**OR Option 2:** Introductory Chemistry II

**Not Satisfied:** OR Complete CHEM 152

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

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**Courses Available**

CHEM 152, (***) (###)

**OR Option 3:** Introductory Chemistry II

**Not Satisfied:** OR Complete CHEM 105B and 106B

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

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**Courses Available**

CHEM 105B, CHEM 106B

**OR Mathematics Natural Sciences**

**Not Satisfied:** Complete the above Chemistry sequence OR select 1 of the following sequences of laboratory science courses.
Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Option 1: Geosciences**

*Not Satisfied:* Complete 1 course

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

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**Courses Available**

GEOS 251

AND **Option 1: Geosciences**

*Not Satisfied:* Complete 1 course

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

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**Courses Available**

GEOS 302, GEOS 304

OR **Option 2: Biology**

*Not Satisfied:* OR Complete 4 units

- **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**


AND **Option 2: Biology**

*Not Satisfied:* Complete 4 units

- **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**
OR Option 3: Introductory Physics with Calculus I

**Not Satisfied:** Complete 2 courses

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

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**Courses Available**

PHYS 131, PHYS 131-CC, PHYS 181

AND Option 3: Introductory Physics with Calculus I

**Not Satisfied:** Complete 2 courses

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

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**Courses Available**

PHYS 182

OR Option 4: Introductory Mechanics

**Not Satisfied:** OR Complete Physics 141

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

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**Courses Available**

PHYS 141

AND Option 4: Intro Thermodynamics & Optics or Electricity & Magnetism

**Not Satisfied:** AND Complete 1 course from Physics 142 or Physics 241

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

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**Courses Available**

PHYS 142, PHYS 241
OR Option 5: Introduction to Mechanics

**Not Satisfied:** OR Complete 2 courses

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

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**Courses Available**

PHYS 151, PHYS 152

OR Option 6: Honors Physics

**Not Satisfied:** OR Complete 2 courses

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

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**Courses Available**

PHYS 161H, PHYS 162H

Mathematics Application Courses

**Not Satisfied:** Complete at least 6 units of non-math coursework with a prerequisite or corequisite of at least Calculus I (MATH 124 or higher). Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Courses with Calculus Prerequisite.**

**Not Satisfied:** Consult with the advisor to discuss approved courses.

- **Units:** 6.00 required, 0.00 completed, 6.00 needed

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**Courses Available**


**Math Major Requirements**
Overall Requirement Not Satisfied: Math Major Requirements

**Introduction Course**

Not Satisfied: Complete 1 course

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

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**Courses Available**

MATH 124, MATH 125, MATH 125-CC

Option 1: Calculus and Differential Equations 1

Not Satisfied: Complete MATH 129 and MATH 355

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

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**Courses Available**

MATH 129, MATH 129-CC, MATH 355

OR Option 2: Calculus and Differential Equations 2

Not Satisfied: Complete MATH 250A and MATH 250B

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

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**Courses Available**

MATH 250A, MATH 250B

Core Courses

Not Satisfied: Complete 4 courses

- **Courses:** 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
CSC 127A, MATH 215, MATH 223, MATH 223-CC, MATH 323

Option in Economics/Business
Overall Requirement Not Satisfied: Option in Economics/Business
Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

Economics and Business Option Requirements
Overall Requirement Not Satisfied: Economics and Business Option Requirements

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 1
Not Satisfied: Complete 1 course
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
MATH 410, MATH 413

Elective 2
Not Satisfied: Complete 1 course
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
MATH 425B, MATH 466, MATH 468
Advisor Approved Course
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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ECONBUS

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

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**Economics and Business Option Graduation Requirements**

_Overall Requirement Not Satisfied: Economics and Business Option Graduation Requirements_

**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 Residency**

_Not Satisfied:_ A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

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

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**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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**Minor Required**

_Not Satisfied:_ A minor is required for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.