

Academic Advisement Report

UGRD.USCNC.MATHBA.APPD

Undergraduate Career

College of Science Program

Mathematics Major (BA)

Applied Emphasis

Requirement Term: Fall 2019

MAIN Campus at TUCSON Location

This emphasis is for students who intend to enter the job market upon graduation, but may also be appropriate for students who plan to go on to graduate school in a field of science or engineering. Applied emphasis coursework focuses on skills like mathematical modeling rather than proof writing, to prepare students to use mathematics in a variety of settings.

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 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.

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)

A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona. Consult with your academic advisor if you plan to use transfer credits to fulfill your degree requirements.

Correspondence and/or Exam Credit Limit

(R2075/L10)

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

· **Units:** 0.00 completed

Non Degree Seeking Limit

(R838/L10)

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

(R1227/L10)

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

(R3297/L15)

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

(R3297/L25)

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

(RG1434)

Not Satisfied: Foundation Mathematics

GE Substantial Math Strand

(R2612)

Not Satisfied: Complete 1 course.

GE Substantial Math Strand

(R2612/L10)

Not Satisfied: Complete 1 course.

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

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

Undergraduate General Education and Foundation Requirements (RG507)

Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition (R532)

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 (R532/L10)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

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

OR Option 2: Foundation Composition - 2 Course Sequence (R532/L20)

Not Satisfied: Complete 2 courses. Complete ENGL 101/107 AND ENGL 102/108

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

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

OR Option 3: Honors Composition (R532/L40)

Not Satisfied: Complete 1 course with a C or better.

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | ENGL | 109H | | | | | | |

Courses Available

ENGL 109H

Foundation Second Language - Fourth Semester Proficiency

(R519)

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 for pass/fail.

Demonstrate fourth semester proficiency in a second language by completing one of the following:

1. Complete a Fourth Semester Language Course with a grade of C or higher.
2. Complete Arabic 401 and 1 course with a grade of C or higher from Arabic 424B, 427B or 430B.
3. Pass a language proficiency examination at the fourth semester level

Option 1: Fourth Semester Language Course

(R519/L10)

Not Satisfied: Complete 1 course with a grade of C or better.

Not from: FREN 325, 373, 375, 393, 399, 399H, 414, 448, 453, HIST 465D, ITAL 330A, 330B, 330C, 330D, 399, 399H, SPAN 397W, 406A, 414, 423A, 423B, 465C, 465D, TTE 414.

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

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

AIS 204B, ARB 402, CHN 202, CHN 301, CHN 302, CHN 415, CHN 417, CHN 422, CHN 423, CRL 202, CRL 202-SA, CRL 301, CRL 301-SA, CRL 302, CRL 397A, CRL 497A, FREN 202, FREN 212, FREN 301, FREN 302, FREN 320, FREN 410, FREN 420, GER 202, GER 211, GER 301, GRK 202, GRK 204, GRK 212, GRK 402, GRK 412, GRK 424, ITAL 202, ITAL 202Z, ITAL 301, ITAL 302, ITAL 310, ITAL 320, JPN 202, JPN 301, JPN 302, JPN 405, JPN 421, JPN 422, JUS 203B, LAS 330, LAS 381, LAS 425, LAS 481, LAS 482, LAT 202, LAT 212, LAT 400, LAT 401, LAT 405, LING 204B, MAS 381, MAS 481, MAS 482, MENA 203B, PHIL 412, PORT 350, PORT 425, PRS 402, PRS 403, PRS 404, RSSS 202, RSSS 301, RSSS 302, RSSS 308, SERP 431B, SPAN 202, SPAN 203, SPAN 206, SPAN 251, SPAN 253, SPAN 323, SPAN 325, SPAN 330, SPAN 333, SPAN 381, SPAN 399, SPAN 425, SPAN 450, SPAN 481, SPAN 482, TURK 402, TURK 403, TURK 404

OR Option 2: Arabic Language

(R519/L20)

Not Satisfied: Complete ARB 401, Intermediate Arabic, plus one additional course from ARB 424B, 427B, 439B.

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | ARB | 401 | | | | | | |

Courses Available

ARB 401

AND Option 2: Additional Arabic Courses

(R519/L30)

Not Satisfied: Complete one additional course with a grade of C or better from ARB 424B, 427B, 439B.

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

ARB 405, ARB 406, ARB 407, ARB 408, ARB 424B, ARB 427B, ARB 439B, ARB 484B, JUS 303A, JUS 303B, MENA 303A, MENA 303B, TURK 407, TURK 408

General Education Tier I
(R522)

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

Tier I Individuals & Societies/150s
(R522/L10)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

(***) (###), AFAS 150B1, ANTH 150B1, ART 150B1, ART 150B2, EAS 150B1, EDP 150B1, ENGL 150B1, 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, PA 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, GER 150A1, HWRS 150A1, LING 150A1, MIS 150A1, PAH 150A1, PAH 150A2, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, AREC 150C1, AREC 150C2, AREC 150C3, ECON 150C1, FIN 150C1, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HPS 150C1, JOUR 150C1, LAS 150B2, MAS 150C1, MENA 150C1, NSC 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, RNR 150C1, SOC 150C1, SOC 150C2, TLS 150C1

Tier I Natural Sciences/170s
(R522/L20)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

Physical Sciences, ASTR 170A1, ATMO 170A1, BE 170A1, BE 170A2, CHEE 170A1, CHEM 170A1, ENVS 170A1, GC 170A1, GEN 170A1, GEOG 170A1, GEOS 170A1, HNRS 170A1, HWRS 170A1, MSE 170A1, MSE 170A2, PHYS 170A1, PTYS 170A1, AME 170B1, ASTR 170B1, ASTR 170B2, PTYS 170B2, ANTH 170C1, ANTH 170C2, ECOL 170C1, ECOL 170C2, ECOL 170C3, ENTO 170C1, ENTO 170C2, GEOS 170C1, HNRS 170C1, MCB 170C1, NSC 170C1, NSC 170C2, NSCS 170C1, PLS 170C1, PLS 170C2, PLS 170C3, RNR 170C1

Tier I Traditions & Cultures/160s
(R522/L30)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

(***) (###), AFAS 160A1, AFAS 160A2, AIS 160A1, ANTH 160A1, ANTH 160A2, ART 160A1, EAS 160A1, EAS 160A2, EAS 160A3, EAS 160A4, EAS 160A5, ENGL 160A1, ENGL 160A2, FREN 160A1, GER 160A1, HIST 160A1, HIST 160A2, MAS 160A1, MENA 160A1, MENA 160A2, MENA 160A3, POL 160A1, RELI 160A1, CLAS 160B1, DNC 160B1, ENGL 160B1, HIST 160B1, HIST 160B2, ITAL 160B1, POL 160B1, ARC 160C1, DNC 160C1, ENGL 160C1, GER 160C1, GWS 160C1, HIST 160C1, POL 160C1, RSSS 160C1, RSSS 160C2, SPAN 160C1, ACBS 160D1, AFAS 160D1, ANTH 160D2, ANTH 160D3, ARC 160D1, ART 160D1, ART 160D2, ART 160D3, CLAS 160D1, CLAS 160D2, CLAS 160D3, ENGL 160D1, ENGL 160D2, ENTO 160D1, GER 160D1, HNRS 160D1, HNRS 160D2, HNRS 160D3, HNRS 160D4, JUS 160D1, MUS 160D1, PAH 160D1, PAH 160D2, PHIL 160D1, PHIL 160D2, PHIL 160D3, POL 160D1, RELI 160D1, RELI 160D2, RELI 160D3, RELI 160D4, RNR 160D1, RSSS 160D1, SPAN 160D1, TAR 160D1

General Education Tier II
(R528)

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

Tier II Arts
(R528/L10)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

AFAS 218, AFAS 318, AFAS 371, ANTH 318, ARC 304, ARC 325, ARE 130, ARH 201, ARH 202, ARH 203, ARH 312, ARH 314, ARH 315, ARH 316A, ARH 316B, ARH 319, ARH 320, ARH 321, ARH 322, ARH 324, ARH 325, ARH 329, ART 203, ART 242, ART 329, ART 358, CLAS 310, CLAS 329, DNC 100, DNC 101, DNC 112A, DNC 112B, DNC 112C, DNC 143, DNC 144A, DNC 144B, DNC 144C, DNC 152A, DNC 152B, DNC 152C, DNC 175, DNC 176A, DNC 176B, DNC 177C, DNC 177D, DNC 200, DNC 276A, ENGL 201, ENGL 209, ENGL 210, ENGL 300, ENGV 300, FTV 252, FTV 352, FTV 375, HNRS 203H, HNRS 216, HNRS 218, HNRS 220, HNRS 222, ISTA 301, JPN 245, LAS 322, LAS 337, MAS 337, MUS 100, MUS 101A, MUS 107, MUS 108, MUS 109, MUS 206, MUS 231, MUS 328, MUS 334, MUS 337, MUS 344, MUS 360, RELI 227, RELI 345, TAR 100, TAR 103, TAR 303, (***) (###)

Tier II Humanities
(R528/L20)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | | | | | | | | |

Courses Available

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 335, AFAS 342, AFAS 365, AFAS 373, AFAS 374, AFAS 377, AFAS 381, AIS 212, AIS 381, ANTH 222, ANTH 300, ANTH 349, ARC 220, ARC 303, ARH 300, ARH 329, ART 329, CHN 241, CHN 245, CHN 345, CLAS 220, CLAS 221, CLAS 222, CLAS 260, CLAS 300, CLAS 329, CLAS 335, CLAS 342, CLAS 346, CLAS 349, CLAS 351, 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 331, ENGL 342, ENGL 375, ENGL 377, ENGV 360, FREN 245, FREN 249, FREN 280, FREN 282, FREN 283, FREN 284, FREN 314, FREN 373, FREN 374, FREN 375, FTV 325, GER 242, GER 246, GER 272, GER 273, GER 276, GER 278, GER 312, GER 320, GER 325, GER 371, GER 373, GER 375, GER 376, GER 379, GER 380, GWS 200, GWS 317, GWS 330, GWS 342, GWS 373, HIST 224, HIST 247, HIST 277A, HIST 277B, HIST 278, HIST 372A, HIST 372B, HNRS 200, HNRS 208H, HNRS 209, HNRS 212, ITAL 230, ITAL 240, ITAL 250A, ITAL 250B, ITAL 250C, ITAL 250D, ITAL 330B, JPN 220, JPN 311, JUS 301, JUS 325, JUS 372A, JUS 372B, JUS 376, KOR 251, LAS 310, LAS 335, LAT 201, LAT 202, MENA 277A, MENA 277B, MENA 342, MENA 372A, MENA 372B, PA 321, PAH 200, PAH 220, PAH 221, PHIL 210, PHIL 213, PHIL 220, PHIL 222, PHIL 260, PHIL 261, PHIL 262, PHIL 321, PHIL 325, PHIL 330, PRS 342, RELI 203, RELI 210, RELI 211, RELI 212, RELI 220, RELI 220A, RELI 220B, RELI 230, RELI 241, RELI 250, RELI 255, RELI 277A, RELI 280, RELI 300, RELI 304, RELI 325, RELI 335, RELI 342, RELI 350, RELI 358, RELI 359, RELI 363, RELI 367, RELI 372A, RELI 372B, RELI 379, RELI 381, RELI 385, RSSS 210, RSSS 304, RSSS 310, RSSS 311, RSSS 325, RSSS 340, RSSS 345, RSSS 350, SPAN 210, SPAN 220, (***) (###)

Tier II Individual & Societies

(R528/L30)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | | | | | | | | |

Courses Available

AED 210, AED 408, AFAS 220, AFAS 223, AFAS 260, AFAS 280, AFAS 304A, AFAS 304B, AFAS 305, AFAS 306, AFAS 310, AFAS 340, AFAS 345, AFAS 376, AFAS 378, AFAS 444, AGTM 380, AIS 200, AIS 210, AIS 220, AIS 346, AIS 347, ALC 309, ANTH 202, ANTH 203, ANTH 204, ANTH 220, ANTH 280, ANTH 307, ANTH 314, ANTH 317, ANTH 320, ANTH 325, ANTH 330, ANTH 339, ANTH 346, ANTH 347, ANTH 358, ANTH 373, ANTH 380, ANTV 307, AREC 210, CHS 202, CLAS 240, CLAS 305, CLAS 306, CLAS 342, CLAS 362, EAS 202, EAS 280, ECON 200, ECON 205, EDL 200, EDP 200, ENV5 310, ESOC 210, ETCV 301, FCSC 302, FREN 230, FSHD 200, FSHD 347, GEOG 205, GEOG 210, GEOG 250, GEOG 251, GEOG 252, GEOG 256, GEOG 270, GEOG 350, GEOG 367, GEOG 380, GER 244, GER 274, GER 327, GPSV 365, GWS 240, GWS 260, GWS 306, GWS 323, GWS 328, GWS 362, HED 350, HIST 246, HIST 306, HIST 370A, HIST 370B, HNRS 204H, HNRS 205H, HNRS 206H, HNRS 217, HNRS 221, HPS 300, HPS 387, HPS 444, HUMS 376, ISTA 263, ITAL 330D, JOUR 305, JOUR 360, JUS 370A, JUS 370B, KOR 245, KOR 352, LAR 350, LAS 204, LAS 230, LAS 251, LAS 280, LAS 310, LAS 312, LAS 317, LAS 345, LAW 389, LING 210, LING 211, LING 330, MAS 265, MAS 317, MAS 365, MCB 310, MENA 251, MENA 330, MENA 334, NESV 334, NSC 255, NURS 310, PA 205, PA 250, PA 312, PA 323, PAH 310, PAH 320, PAH 350, PAH 372, PHIL 205, PHIL 211, PHIL 214, PHIL 223, PHIL 233, PHIL 241, PHIL 246, PHIL 250, PHIL 264, PHIL 323, PHIL 326, PHIL 345, PHIL 346, PHIL 347, PHIL 348, PHPM 310, PLG 202, PLG 211, PLG 256, POL 201, POL 202, POL 203, POL 204, POL 250, POL 312, POL 345, PORT 280, PPEL 205, PPEL 210, PSY 200, PSY 216, PSY 240, PSY 241, PSY 277, PSY 345, PSY 346, PSY 347, PSY 348, RCSC 204, RELI 233, RELI 235, RELI 305, RELI 306, RELI 323, RELI 326, RELI 334, RELI 360, RELI 370A, RELI 370B, RELV 334, RNR 200, RNR 256, RSSS 275, RSSS 315, RSSS 328, SERP 200, SLHS 255, SLHS 310, SOC 202, SOC 220, SOC 260, SOC 280, SOC 320, SOC 355, SOC 357, SOC 367, SPAN 211, SPAN 220, SPAN 280, TLS 200, TLS 204, TLS 239, TLS 240, (***) (###)

Tier II Natural Sciences

(R528/L40)

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 (NATS) 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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | | | | | | | | |

Courses Available

ACBS 310, ANTH 257A, ANTH 257B, ANTH 258, ANTH 261, ANTH 324, ANTH 327, ANTH 364, ANTV 364, ASTR 201, ASTR 202, ASTR 203, ASTR 204, ASTR 206, ASTR 208, ASTR 214, ATMO 325, ATMO 336, BE 270, CHEM 257A, ECOL 206, ECOL 220, ECOL 223, ECOL 230, ECOL 280, ECOL 310, ENGR 225, ENGR 257A, ENGR 257B, ENGR 258, ENTO 310, ENVS 210, GEOG 220, GEOG 230, GEOG 240, GEOS 210, GEOS 212, GEOS 214, GEOS 216, GEOS 218, GEOS 220, GEOS 222, HNRS 202H, HNRS 219, HWRS 201, HWRS 202, HWRS 203, HWRS 204, MCB 239, MCB 261, MIC 204, MIC 310, MSE 225, MSE 257A, MSE 257B, MSE 258, NSC 310, NSC 353, NSC 375, OPTI 200, PHIL 305, PHIV 305, PTYS 200, PTYS 206, PTYS 212, PTYS 214, SCI 203, SLHS 261, SLHS 263, SLHS 267, SLHS 270, SLHS 362, TLS 201, (***) (###)

Diversity Emphasis Course
(R531)

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
(R531/L10)

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

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

AED 408, AFAS 150B1, AFAS 160A1, AFAS 160A2, AFAS 218, AFAS 220, AFAS 222, AFAS 223, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 260, AFAS 302, AFAS 304A, AFAS 304B, AFAS 306, AFAS 310, AFAS 311D, AFAS 314, AFAS 318, AFAS 330, AFAS 335, AFAS 340, AFAS 342, AFAS 345, AFAS 365, AFAS 371, AFAS 373, AFAS 374, AFAS 376, AFAS 377, AFAS 381, AFAS 444, AFAS 467, AFAS 467, AFAS 468, AIS 160A1, AIS 200, AIS 210, AIS 212, AIS 220, AIS 346, AIS 347, AIS 381, AIS 467, ANTH 150A1, ANTH 160A1, ANTH 160A2, ANTH 202, ANTH 203, ANTH 220, ANTH 222, ANTH 307, ANTH 314, ANTH 318, ANTH 320, ANTH 323, ANTH 325, ANTH 330, ANTH 339, ANTH 346, ANTH 347, ANTH 358, ANTH 375, ANTH 402, ANTH 450, ANTH 467, ANTV 307, ANTV 375, ARH 203, ART 160A1, CHN 245, CHN 251, CHN 276, CHN 331, CHN 340, CHN 341, CHN 345, CHN 419, CHN 420, CHN 429, CHN 468, CHN 482, CHN 483, CHS 202, CLAS 323, CLAS 362, DNC 177C, DNC 177D, EAS 130, EAS 160A1, EAS 160A2, EAS 160A3, EAS 160A4, EAS 160A5, EAS 201, EAS 202, EAS 280, EAS 333, EAS 358, EAS 359, EAS 484A, EAS 484B, EAS 496C, ENGL 160A1, ENGL 160A2, ENGL 228, ENGL 229, ENGL 230, ENGL 245, ENGL 331, ENGL 342, ENGL 377, ENGL 429, ENVS 310, FREN 150B1, FREN 160A1, FREN 230, FREN 245, FREN 249, FREN 314, FREN 373, FREN 374, FTV 150B1, FTV 251, GEOG 205, GEOG 210, GEOG 251, GEOG 252, GEOG 311D, GEOG 311E, GER 160A1, GER 274, GER 278, GER 373, GER 376, GWS 150B5, GWS 200, GWS 240, GWS 253, GWS 254, GWS 260, GWS 306, GWS 323, GWS 324, GWS 328, GWS 330, GWS 335, GWS 342, GWS 362, GWS 373, GWS 402, GWS 427, GWS 448, GWS 459, GWS 468, HIST 160A1, HIST 160A2, HIST 253, HIST 254, HIST 272, HIST 276, HIST 277A, HIST 278, HIST 306, HIST 370A, HIST 370B, HIST 372A, HIST 372B, HIST 482, HNRS 160D4, HNRS 204H, HPS 387, HPS 444, HUMS 150B1, HUMS 376, HUSV 310, ITAL 150B1, ITAL 330B, ITAL 330D, JOUR 360, JPN 220, JPN 245, JPN 272, JPN 304, JPN 310, JPN 311, JPN 402, JPN 411, JPN 412, JPN 441, JPN 446A, JPN 446B, JPN 447A, JPN 447B, JPN 485, JPN 486, JPN 489, JPN 495B, JPN 496A, JPN 496C, JUS 325, JUS 370A, JUS 370B, JUS 372A, JUS 372B, JUS 376, LAS 251, LAS 310, LAS 312, LAS 335, LAS 337, LAS 345, LAS 362, LAW 389, LING 210, LING 304, LING 330, LING 402, LING 411, LING 412, LING 419, LING 420, LING 496C, MAS 160A1, MAS 265, MAS 330, MAS 332, MAS 337, MAS 365, MAS 467, MENA 160A1, MENA 160A2, MENA 160A3, MENA 251, MENA 277A, MENA 311E, MENA 330, MENA 334, MENA 372A, MENA 372B, MENA 375, MENA 441, MIS 150B1, MUS 109, MUS 231, MUS 334, MUS 337, MUS 344, NESV 334, NESV 375, PA 312, PAH 160D1, PAH 160D2, PAH 220, PAH 221, PAH 310, PHIL 222, PHIL 223, PHIL 325, PHIL 330, POL 160A1, POL 312, POL 330, POL 332, POL 335, POL 345, POL 441, POL 464, POL 468, POL 476, PSY 216, RELI 130, RELI 160A1, RELI 160D4, RELI 210, RELI 212, RELI 220, RELI 230, RELI 235, RELI 277A, RELI 323, RELI 324, RELI 331, RELI 333, RELI 334, RELI 335, RELI 345, RELI 350, RELI 358, RELI 359, RELI 360, RELI 363, RELI 367, RELI 370A, RELI 370B, RELI 372A, RELI 372B, RELI 381, RELI 483, RELI 484A, RELI 484B, RELI 485, RELI 486, RELI 489, RELV 334, RSSS 150B2, RSSS 315, RSSS 328, RSSS 350, SOC 202, SOC 220, SOC 222, SOC 260, SOC 280, SOC 324, SOC 325, SOC 355, SOC 357, SOC 362, SOC 427, SOC 432, SOC 448, SOC 450, SOC 459, SOC 467, SPAN 150B1, SPAN 150B2, SPAN 210, TAR 303, TLS 150C1

Additional Coursework (RG521)

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.

BA in Mathematics (RG664)

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Mathematics Supporting 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.

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

Mathematics Supporting Computer Science (R15805)

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

Computer Science (R15805/L10)

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

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

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

CSC 110, ISTA 130

Math Major Core Requirements (R971)

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

Calculus I (R971/L10)

Not Satisfied: Complete 1 course

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

MATH 122B, MATH 125

Core Courses (R971/L50)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

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

Emphasis in Applied Mathematics

(RG17554)

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Applied Emphasis course requirements, Graduation Requirements, and declares a minor.

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

Applied Emphasis Requirements

(R973)

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies the Applied required courses, one of the sequences listed below, and one advisor approved course.

Applied Required Courses

(R973/L15)

Not Satisfied: Complete 2 courses. Students should plan to take MATH 485 in their final Spring semester; MATH 422 should be taken earlier, when possible.

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | MATH | 422 | | | | | | |
| | MATH | 485 | | | | | | |

Courses Available

MATH 422, MATH 485

Option 1: Differential Equations

(R973/L20)

Not Satisfied: Complete Math 454 and 456

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | MATH | 454 | | | | | | |
| | MATH | 456 | | | | | | |

Courses Available

MATH 454, MATH 456

OR Option 2: Probability and Statistics

(R973/L30)

Not Satisfied: OR Complete Math 464 and 466

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | MATH | 464 | | | | | | |
| | MATH | 466 | | | | | | |

Courses Available

MATH 464, MATH 466

OR Option 3: Numerical Analysis

(R973/L40)

Not Satisfied: OR Complete Math 475A and 475B

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
| | MATH | 475A | | | | | | |
| | MATH | 475B | | | | | | |

Courses Available

MATH 475A, MATH 475B

Additional Course

(R973/L50)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Courses Available

DATA 468, MATH 413, MATH 424, MATH 454, MATH 456, MATH 464, MATH 468, MATH 475A, MATH 488

Major 400-level Upper Division

(R973/L60)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
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| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
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Major Upper Division

(R1156/L30)

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

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
|------|---------|-------------|--------------|-------|-------|-------|-------|------|
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Minor Required

(R16193)

Not Satisfied: A minor outside of the Mathematics Department is required for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.