

Academic Advisement Report

For **MATHBS MATHBS (*COMPSCI)** prepared on **04/28/2021**
Requested by **Laurie Varecka**

Graduation Requirements

Academic level	Required GPA	Actual GPA	GPA Status	Requirement Term
Undergraduate Career	2.000		Not Satisfied	Fall 2021
Mathematics Major (BS)	2.000		Not Satisfied	Fall 2021
Computer Science Emphasis				Fall 2021
Unit Requirements	Required Units	Total Units *	In Progress Units	Unit Status
Units Required for this Degree	120.00	0.00	0.000	Not Satisfied
Upper Division Units	42.00	0.00	0.000	Not Satisfied
Units in Residence	30.00	0.00	0.000	Not Satisfied
Upper Division Units in Residence	18.00	0.00	0.000	Not Satisfied

*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

(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.

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

Courses Available

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

Undergraduate General Education and Foundation Requirements

(R532)

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

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

(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

Courses Available

ENGL 1EIB, 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 - Second Semester Proficiency

(R521)

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

(R521/L10)

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

Not from: FREN 325, 391, 393, 396H, 399, 399H, 414, 425, 432, 433, 434, 442, 443, 448, 453, GRK 412, 422, HIST 465D, ITAL 330A, 330B, 330C, 330D, 393, 393H 399, 399H, 410, 431, 496A, 498H, LAT 411, 413, 414, 415, 421, 425, 426, PORT 325A, 430, 440, 449, RSSS 305, 405A, 405B, SPAN 204C, 303, 305, 340, 343, 350, 360, 371A 371B 375, 381, 382, 397W, 399, 400, 401, 402, 403, 406A, 410, 411, 412, 414, 423A, 423B, 433, 435, 436, 437, 438, 441, 442, 445, 446, 447, 448, 452, 453, 455A, 457, 458, 459, 465A, 465C, 465D, 465E, 471, 472, 473, 482, TTE 414.

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

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, JUS 103B, 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

(R522)

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

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, HWRS 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, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HPS 150C1, ITAL 150C1, JOUR 150C1, LAS 150B2, LING 150C1, MAS 150C1, MENA 150C1, NSC 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, PPEL 150C1, RNR 150C1, SOC 150C1, SOC 150C2, TLS 150C1, PHIL 150A2

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

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, POL 160A1, RELI 160A1, CLAS 160B1, DNC 160B1, ENGL 160B1, HIST 160B1, HIST 160B2, ITAL 160B1, POL 160B1, ARC 160C1, DNC 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 160D2, CLAS 160D3, ENGL 160D1, ENGL 160D2, ENTO 160D1, GER 160D1, GER 160D2, HIST 160D1, HNRS 160D1, HNRS 160D2, HNRS 160D3, HNRS 160D4, ITAL 160D1, MUS 160D1, MUS 160D2, PAH 160D1, PAH 160D2, PAH 160D3, PAH 160D4, PAH 160D5, PHIL 160D1, PHIL 160D2, PHIL 160D3, POL 160D1, RELI 160D1, RELI 160D2, RELI 160D3, RELI 160D4, RELI 160D5, RELI 160D6, RNR 160D1, RSSS 160D1, SPAN 160D1, TAR 160D1

General Education Tier II

(R528)

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

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 282, 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 178A, DNC 178B, DNC 178C, DNC 179A, DNC 200, DNC 276A, ENGL 201, ENGL 209, ENGL 210, ENGL 300, ENGV 300, FA 200, FTV 352, FTV 375, HNRS 203H, HNRS 216, HNRS 218, HNRS 220, HNRS 222, HUMS 200, 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 335, MUS 337, MUS 344, MUS 360, RELI 227, RELI 240, 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, 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, FA 200, FREN 245, FREN 249, FREN 280,

FREN 282, FREN 283, FREN 284, FREN 314, FREN 373, FREN 374, FREN 375, FTV 325, GER 233, 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 272, HIST 277A, HIST 277B, HIST 278, HIST 307, HIST 316, HIST 372A, HIST 372B, HNRS 200, HNRS 208H, HNRS 209, HNRS 210, HNRS 212, HNRS 302, HUMS 200, ITAL 230, ITAL 240, ITAL 250A, ITAL 250B, ITAL 250C, ITAL 250D, ITAL 330B, JPN 220, JPN 272, JPN 311, JUS 301, JUS 325, JUS 372A, JUS 372B, JUS 376, KOR 251, LAS 310, LAS 335, LAT 201, LAT 202, LAW 360, MENA 277A, MENA 277B, MENA 342, MENA 372A, MENA 372B, PA 321, PAH 200, PAH 201, PAH 220, PAH 221, PAH 230, PAH 231, PAH 260, PAH 331, 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 255, RELI 277A, RELI 280, RELI 300, RELI 303, 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 212, RSSS 280, RSSS 304, RSSS 310, RSSS 311, RSSS 325, RSSS 335, 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 316, ANTH 317, ANTH 320, ANTH 323, ANTH 325, ANTH 330, ANTH 339, ANTH 346, ANTH 347, ANTH 358, ANTH 373, ANTH 380, ANTV 307, APCV 301, ARE 201, AREC 210, AREC 365, CHS 202, CLAS 240, CLAS 305, CLAS 306, CLAS 323, CLAS 362, EAS 202, EAS 280, ECON 200, ECON 205, EDL 200, EDP 200, ENGL 347, ENVS 310, ESOC 210, FCM 201, FCSC 302, FOOD 360, FREN 230, FREN 231, 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 316, GWS 323, GWS 328, GWS 362, HED 350, HIST 246, HIST 306, HIST 362A, HIST 362B, HIST 370A, HIST 370B, HNRS 204H, HNRS 205H, HNRS 206H, HNRS 217, HNRS 221, HPS 300, HPS 387, HPS 444, HUMS 205, HUMS 376, ISTA 263, ITAL 231, ITAL 330D, JOUR 305, JOUR 360, JPN 362A, JPN 362B, JUS 370A, JUS 370B, KOR 245, KOR 352, LAR 350, LAS 204, LAS 230, LAS 251, LAS 280, LAS 310, LAS 312, LAS 316, 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, NAFS 365, NSC 255, PA 205, PA 250, PA 312, PA 323, PAH 240, PAH 310, PAH 320, PAH 330, 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 209, POL 250, POL 312, POL 345, PORT 280, PPEL 205, PPEL 210, PSY 200, PSY 216, PSY 240, PSY 277, RCSC 204, RELI 233, RELI 235, RELI 301, RELI 302, RELI 305, RELI 306, RELI 316, RELI 323, RELI 326, RELI 330, RELI 334, RELI 360, RELI 370A, RELI 370B, RNR 200, RNR 256, RSSS 275, RSSS 305, RSSS 306, RSSS 315, RSSS 320, RSSS 328, SERP 200, SLHS 255, 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, TLS 353, (***) (###)

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

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 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 201, 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 341, CHN 345, CHN 419, CHN 420, CHN 429, CHN 468, CHN 482, CHN 483, CHS 202, CLAS 150C1, CLAS 323, CLAS 362, DNC 177C, DNC 177D, DNC 178A, DNC 178B, DNC 178C, DNC 179A, 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 402, EAS 484, EAS 496C, ENGL 150B2, ENGL 160A1, ENGL 160A2, ENGL 228, ENGL 229, ENGL 230, ENGL 245, ENGL 342, ENGL 377, ENGL 429, ENVS 310, FCM 201, FREN 150B1, FREN 150C1, FREN 160A1, FREN 230, FREN 231, 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 307, HIST 370A, HIST 370B, HIST 372A, HIST 372B, HIST 482, HNRS 160D4, HNRS 204H, HPS 387, HPS 444, HUMS 150B1, HUMS 205, HUMS 376, HUSV 310, ITAL 150B1, ITAL 150C1, ITAL 231, ITAL 330B, ITAL 330D, JOUR 360, JPN 220, JPN 245, JPN 272, JPN 304, JPN 308, JPN 310, JPN 311, JPN 314, JPN 402, JPN 411, JPN 412, JPN 440, JPN 441, JPN 446A, JPN 446B, JPN 450, JPN 485, JPN 486, JPN 489, JPN 495B, JPN 496A, JPN 496C, JUS 325, JUS 370A, JUS 370B, JUS 372A, JUS 372B, JUS 376, KOR 245, LAS 251, LAS 310, LAS 312, LAS 335, LAS 337, LAS 345, 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 337, MAS 365, MAS 467, MENA 160A1, MENA 160A2, MENA 251, MENA 277A, MENA 311E, MENA 330, MENA 334, MENA 372A, MENA 372B, MENA 375, MENA 441, MIS 150B1, MNE 201, MUS 109, MUS 231, MUS 334, MUS 335, MUS 337, MUS 344, NESV 375, PA 312, PAH 160D1, PAH 160D2, PAH 220, PAH 221, PAH 260, PAH 310, PHIL 222, PHIL 223, PHIL 325, PHIL 330, PLG 211, POL 160A1, POL 312, POL 330, POL 335, POL 345, POL 441, POL 464, POL 468, POL 476, PSY 216, RELI 130, RELI 160A1, RELI 160D4, RELI 160D5, RELI 160D6, RELI 210, RELI 212, RELI 220, RELI 230, RELI 235, RELI 240, RELI 277A, RELI 301, RELI 302, RELI 303, RELI 308, RELI 314, RELI 323, RELI 324, RELI 330, 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 402, RELI 483, RELI 484, RELI 485, RELI 486, RELI 489, RSSS 150B2, RSSS 212, RSSS 305, RSSS 315, RSSS 320, RSSS 328, RSSS 350, SOC 202, SOC 220, SOC 222, SOC 260, SOC 280, SOC 324, SOC 325, SOC 355, SOC 357, 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.

BS in Mathematics

(RG172)

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

(R1192)

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

(R1192/L2)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

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

AND Option 1: Chemistry II

(R1192/L5)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

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

OR Option 2: Geosciences

(R1192/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
	GEOS	251						

Courses Available

GEOS 251

AND Option 2: Geosciences

(R1192/L15)

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

Courses Available

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

OR Option 3: Biology

(R1192/L20)

Not Satisfied: OR Complete 8 units

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

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

OR Option 4: Physiology

(R1192/L27)

Not Satisfied: Complete 2 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	PSIO	201						
	PSIO	202						

Courses Available

PSIO 201, PSIO 202

OR Option 5: Introductory Mechanics

(R1192/L40)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

PHYS 141, PHYS 161H

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

(R1192/L50)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

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

Mathematics Application Courses

(R1217)

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

(R1217/L10)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

AREC 304, AREC 464, AREC 479, ASTR 250, ATMO 430, ATMO 436A, ATMO 469A, ATMO 469B, BAT 201, BE 201, BE 284, BE 428, BE 481A, BE 481B, BIOC 462A, BIOC 462B, BIOC 466, BME 214, BME 481B, CE 214, CHEE 201, CHEE 202, CHEE 297, CHEE 481A, CHEE 481B, CHEM 161, CHEM 162, CHEM 325, CHEM 404A, CHEM 480A, CHEM 480B, CHEM 481, CSC 345, CSC 422, CSC 433, CSC 436, CSC 437, CSC 444, CSC 445, CSC 453, CSC 460, CSC 477, CSC 483, CSCV 345, ECE 201R, ECE 404, ECOL 302, ECOL 419, ECOL 447, ECOL 496N, ECON 332, ECON 361, ENGR 211C, ENGR 211E, ENGR 211P, ENGR 265, ENVS 420, ENVS 470, ENVS 479, GEOG 463, GEOS 322, GEOS 356, GEOS 419, GEOS 432, GEOS 434A, GEOS 440, GEOS 469, GEOS 479, HWRS 349A, HWRS 421, HWRS 431, HWRS 460A, HWRS 479, ISTA 421, ISTA 450, MATH 493, MCB 303, MCB 480, MSE 222, MSE 345, MSE 404, MSE 415, OPTI 201R, OPTI 404, OPTI 495B, PHYS 140, PHYS 143, PHYS 240, PHYS 241, PHYS 261H, PSIO 303, PSIO 305, PSIO 472, PTYS 407, RCSC 216, RNR 479, SIE 250, SIE 265, WFSC 444, WFSC 445, WSM 460A, PHYS 142, PHYS 162H, PHYS 141, PHYS 161H

Mathematics Supporting Computer Science

(R15810)

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

Computer Science

(R15810/L10)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

CSC 110, CSC 120, CSC 250, ISTA 130

Math Major Core Requirements

(R1173)

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

Calculus I

(R1173/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

Courses Available

MATH 122B, MATH 125

Core Courses

(R1173/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

Courses Available

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

Emphasis in Computer Science Mathematics

(RG847)

Not Satisfied: Will appear fully satisfied when student satisfies Computer Science Emphasis course requirements, Graduation Requirements, and declares a minor in Computer Science.

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

Computer Science Emphasis Options

(R16647)

Not Satisfied: Will appear fully satisfied when student satisfies Option 1, 2, OR 3.

Option 1. Abstract Algebra

(R16647/L20)

Not Satisfied: Complete MATH 415A and MATH 415B

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	MATH	415A						
	MATH	415B						

Courses Available

MATH 415A, MATH 415B

OR Option 2. Probability and Statistics

(R16647/L25)

Not Satisfied: OR Complete MATH 464 and MATH 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

(R16647/L30)

Not Satisfied: OR Complete MATH 475A and one course from the list below

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

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

Courses Available

MATH 475A

AND Option 3: Courses to Pair With Numerical Analysis

(R16647/L40)

Not Satisfied: Complete MATH 475A one course from MATH 422, 424, 454, 456, 464, 475B, 485

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

MATH 422, MATH 424, MATH 454, MATH 456, MATH 464, MATH 475B, MATH 485

Computer Science Emphasis Requirements

(R1175)

Not Satisfied: Will appear fully satisfied when student satisfies two of the electives, and one advisor approved course.

Electives

(R1175/L40)

Not Satisfied: Complete 2 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

CSC 473, MATH 413, MATH 443, MATH 445, MATH 446, MATH 447

Additional Course

(R1175/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

Courses Available

CSC 401A, CSC 401B, CSC 473, DATA 468, MATH 401A, MATH 401B, MATH 402, MATH 413, MATH 415A, MATH 443, MATH 445, MATH 446, MATH 447, MATH 464, MATH 468, MATH 475A, MATH 485, PHIL 401A, PHIL 401B

Major 400-level Upper Division

(R1175/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

Computer Science Math Emphasis Graduation Requirements

(R1177)

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

(R1177/L3)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Major GPA

(R1177/L10)

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

· **GPA:** 2.000 required, 0.000 completed

Major Units

(R1177/L15)

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

· **Units:** 34.00 required, 0.00 completed, 34.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Major Residency

(R1177/L20)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Major Upper Division

(R1177/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

Minor Required

(R15593)

Not Satisfied: A minor is required for this major.

- You must complete 1 of the following:
- Computer Science Minor
 - Computer Science Major
 - Computer Science Major (Secondary)