![THE UNIVERSITY OF ARIZONA]

Academic Advisement Report
For **MATHBA MATHBA (*COMSCI)** prepared on **02/27/2025**
Requested by **Laurie Varecka**

Graduation Requirements

Academic level	Required GPA	Actual GPA	GPA Status	Requirement Term
Undergraduate Career	2.000		**Not Satisfied**	Fall 2025
Mathematics Major (BA)	2.000		**Not Satisfied**	Fall 2025
Computer Science Emphasis				Fall 2025
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 Unit Status include In Progress Units. In Progress Units are comprised of all ungraded coursework, including future enrollments, and courses with incomplete grades. Credit from repeated courses is excluded from the In Progress and Total Units. Credit from developmental courses (e.g. 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) is a candidate for multiple bachelor¿s degrees. Students must earn a minimum of 18 unique units of University Credit per degree, in addition to meeting all requirements for each 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.

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.

General Education Entry Course *(RG18614)*
Not Satisfied: General Education Entry Course

Introduction to General Education course *(R16657/L10)*
Not Satisfied: Introduces students admitted to the university as First-Year students to General Education, reflecting on learning, and developing an ePortfolio. (1 unit)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

UNIV 101

General Education Foundation Mathematics *(RG1434)*
Not Satisfied: General Education Foundation Mathematics

GE Substantial Math Strand *(R17065)*
Not Satisfied: Complete 1 course.

GE Substantial Math Strand *(R17065/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

General Education Foundation Composition & Second Language *(RG507)*
Not Satisfied: Undergraduate General Education Foundation Composition & Second Language

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 - 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 of 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

   Courses Available

   AIS 204B, ARB 402, ARB 405, ARB 406, ARB 407, ARB 408, 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, GER 303, GER 311, 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, JUS 303A, JUS 303B, KOR 202, 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, MENA 303A, MENA 303B, PHIL 412, PORT 350, PORT 425, PRS 402, PRS 403, PRS 404, PRS 407, PRS 408, 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, TURK 407, TURK 408

OR Option 2: Arabic Language   *(R519/L20)*
   Not Satisfied: Complete ARB 401, Intermediate Arabic, plus one additional course from ARB 424B, 427B, 439B, 484B.

   · **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, 484B.

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

   Courses Available

   ARB 424B, ARB 427B, ARB 439B, ARB 484B

General Education Core Requirements   *(RG18630)*

Not Satisfied: General Education Core Requirements

GE Exploring Perspectives (R16656)

Not Satisfied: Choose one course from each category.

Artist Courses (R16656/L10)

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 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 245, AFAS 373, ARC 160C1, ARC 303, ARH 312, ARH 315, ARH 316B, ARH 320, ARH 322, ARH 323, ART 150B2, ART 242, ART 358, DNC 100, DNC 101, DNC 144A, DNC 152C, DNC 178A, DNC 179A, EAS 240, ENGL 201, ENGL 209, ENGL 210, ENGL 215, ENGL 245, ENGL 248B, FREN 245, FREN 373, FTV 306, FTV 352, HNRS 216, HNRS 222, HNRS 252, ISTA 301, ISTA 401, ITAL 330B, JPN 245, LAS 322, LAS 323, LAS 337, MAS 337, MUS 101A, MUS 106, MUS 109, MUS 160D1, MUS 327, MUS 328, MUS 335, MUS 337, MUS 360, PAH 150A1, RELI 240, SPAN 160C1, TAR 100, TAR 103, TAR 303, TFTV 160D1

Humanist Courses (R16656/L50)

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 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 150B1, AFAS 160A1, AFAS 160D1, AFAS 200, AIS 212, ALC 309, APAS 250, ARH 201, ARH 203, ARH 312, ARH 315, ARH 316B, ARH 318A, ARH 329, ART 329, CLAS 160D2, CLAS 260, CLAS 329, CLAS 335, EAS 160A1, EAS 160A3, EAS 250, ENGL 160A1, ENGL 160D2, ENGL 228, ENGL 265, ENGL 266, ENGL 280, ENGL 300, ENGL 375, FREN 280, FREN 300, FREN 375, FTV 325, FTV 375, GEOG 205, GER 160D1, GER 160D2, GER 246, GER 273, GER 325, GER 371, HIST 102, HIST 160A1, HIST 160A2, HIST 160B1, HIST 160C1, HIST 187, HIST 203, HIST 207, HIST 277A, HIST 277B, HIST 316, HNRS 209B, HUMS 150B1, ITAL 250A, ITAL 250B, ITAL 250C, ITAL 300, ITAL 330D, JUS 301, MAS 265, MENA 160A1, MENA 277A, MENA 277B, MENA 334, PAH 150A2, PAH 150A3, PAH 160D2, PAH 160D4, PAH 200, PAH 220, PAH 221, PAH 320, PAH 330, PAH 332, PHIL 150B1, PHIL 160D1, PHIL 160D2, PHIL 210, PHIL 213, PHIL 220, PHIL 246, PHIL 260, PHIL 262, POL 203, RELI 160A1, RELI 160D4, RELI 160D7, RELI 212, RELI 277A, RELI 280, RELI 325, RELI 334, RSSS 150B1, RSSS 150B2, RSSS 160C2, RSSS 310, RSSS 315, RSSS 325, RSSS 340, RSSS 345

Natural Scientist Courses (R16656/L90)

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 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

AGTM 170A1, AME 170B1, ANTH 160D2, ANTH 170C1, ANTH 261, ASTR 170B1, ASTR 170B2, ASTR 206, BE 170A1, BE 170A2, BIOS 216, CHEE 204, CHEM 151, CHEM 152, CHEM 161, CHEM 162, ECOL 170C1, ECOL 170C2, ECOL 170C3, EHS 100, ENTO 170C2, ENVS 170A1, ESOC 210, GC 170A1, GEOG 170A1, GEOG 230, GEOS 170A1, GEOS 212, GEOS 218, GEOS 220, HDFS 101, HNRS 219, HWRS 170A1, MSE 220, NSC 170C1, NSC 170C2, NSC 375, PHYS 141, PHYS 161H, PLS 170C1, PLS 170C2, PLS 307, PTYS 170B2, PTYS 206, RNR 170C1

Social Scientist Courses *(R16656/L130)*

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 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

AED 150A1, AED 408, AFAS 260, AFAS 280, AFAS 376, ANTH 150A1, ANTH 150B1, ANTH 160A1, ANTH 280, ANTH 316, ANTH 317, ANTH 339, AREC 210, AREC 217, CLAS 160D3, ECON 200, EDP 150B1, EDP 200, EDP 310, ENGL 160D1, ENGL 322, EVS 250, FIN 150C1, FITS 204, FREN 150B1, FREN 150C1, GEOG 150B2, GEOG 210, GEOG 222, GEOG 250, GEOG 367, GER 150A1, GER 244, GWS 252, GWS 316, GWS 448, GWS 459, HDFS 150B1, HDFS 200, HED 331, HED 350, HIST 150C1, HIST 150C2, HIST 150C3, HIST 252, HIST 307, HPS 178, HPS 200, HRTS 250, HUMS 376, ITAL 150B1, ITAL 150C1, ITAL 160B1, ITAL 160D1, LAS 150B1, LAS 150B2, LAS 204, LAS 230, LAS 280, LAS 312, LAS 316, LAS 317, LAW 389, LING 320, LING 322, MAS 150B2, MAS 150C1, MAS 317, MAS 365, MIS 150B1, PA 241, PA 312, PAH 150A2, PAH 150B1, PHP 150C, PHP 308, POL 202, POL 204, POL 312, PORT 280, PPEL 210, PSY 101, PSY 150A1, PSY 200, RELI 316, SERP 200, SERP 416, SOC 150B1, SOC 150C2, SOC 222, SOC 241, SOC 260, SOC 324, SOC 325, SOC 355, SOC 367, SOC 432, SOC 448, SOC 459, SPAN 280, SRL 150B1, TLS 150C1, TLS 331

GE Building Connections *(R16658)*

Not Satisfied: Building Connections brings together knowledge and modes of thinking from two or more disciplines and/or perspectives. Choose three courses (9 units minimum).

Building Connections Courses *(R16658/L10)*

Not Satisfied: Complete 3 courses, 9 units total. Transfer students with quarter system credits may satisfy requirements with 3 courses and 8.01 units.

· **Units:** 8.01 required, 0.00 completed, 8.01 needed
· **Courses:** 3.00 required, 0.00 completed, 3.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

ACBS 160D1, AED 150C1, AED 210, AFAS 208, AFAS 249, AFAS 335, AFAS 371, AFAS 374, AIS 210, AIS 346, ANTH 150C1, ANTH 201, ANTH 330, ANTH 346, APAS 205, APAS 260, APAS 350, APCV 303, ARC 160D1, ARC 220, ARE 201, AREC 150C3, AREC 365, ART 150B1, ART 160D2, ART 160D3, ART 360, ASTR 170A1, ASTR 212, ASTR 214, ASTR 333, BSM 201, CE 301, CHN 376A, CHS 202, CLAS 150C1, CLAS 160B1, CLAS 160D3, CLAS 240, CLAS 305, CLAS 315, CLAS 346, EAS 150B1, EAS 201, EAS 270, EAS 359, ECON 150C2, ECON 205, ENGL 150B2, ENGL 160A2, ENGL 307, ENGL 308, ENGL 347, ENGR 422, ENTO 160D1, ENVS 210, ENVS 310, ESOC 150B1, EVS 150C1, FREN 160A1, FREN 230, FREN 231, FREN 249, FREN 374, GEOG 150C1, GEOG 210, GEOG 256, GEOS 214, GEOS 222, GER 114, GER 150B1, GER 160A1, GER 160D1, GER 160D2, GER 379, GWS 150B1, GWS 150B2, GWS 150B4,

GWS 160C1, GWS 200, GWS 240, GWS 242, GWS 260, GWS 317, GWS 321, HDFS 150B1, HED 242, HED 397C, HIST 150C4, HIST 160B2, HIST 160D1, HIST 208, HIST 211, HIST 246, HIST 247, HIST 255, HIST 270, HIST 362A, HIST 376A, HIST 377, HNRS 150B2, HNRS 150C1, HNRS 160D4, HNRS 170A1, HNRS 203H, HNRS 208H, HNRS 212, HNRS 218, HNRS 295G, HNRS 302, HNRS 314, HPS 150C1, HPS 300, HPS 387, HRTS 200, HRTS 300, HRTS 305, HSD 401, HUMS 205, IDS 120, ISTA 263, ITAL 160D1, ITAL 230, ITAL 231, ITAL 240, ITAL 250D, JOUR 150C1, JOUR 305, JPN 220, JPN 312, JPN 362A, JUS 160D1, JUS 321, JUS 332, JUS 377, JUS 384, LAR 150B1, LAR 350, LAS 335, LAW 360, LING 114, LING 150A1, LING 150C1, LING 210, LING 211, LING 330, MENA 160A2, MENA 330, MENA 342, MENA 377, MIS 150B1, MNE 201, MNE 422, MUS 231, MUS 334, MUS 335, NAFS 365, NSC 150C1, NSC 310, NSC 353, NSC 365, PA 205, PA 323, PAH 150B1, PAH 150B5, PAH 160D1, PAH 160D3, PAH 160D5, PAH 201, PAH 230, PAH 231, PAH 240, PAH 260, PAH 310, PAH 320, PAH 331, PAH 350, PAH 372, PFFP 150B2, PHIL 150C1, PHIL 205, PHIL 211, PHIL 305, PHIL 323, PHIL 348, PHP 205, PLG 202, PLG 211, PLG 256, POL 209, POL 377, PPEL 150C1, PPEL 205, PPEL 323, PRS 342, PSY 240, PTYS 170A1, PTYS 212, PTYS 214, RCSC 150B1, RCSC 250, RELI 150B1, RELI 160D5, RELI 160D6, RELI 203, RELI 211, RELI 220, RELI 227, RELI 235, RELI 305, RELI 321, RELI 332, RELI 335, RELI 350, RELI 359, RELI 363, RELI 367, RELI 379, RNR 150C1, RNR 160D1, RNR 240, RNR 256, RSSS 114, RSSS 160D1, RSSS 212, RSSS 280, RSSS 305, RSSS 306, RSSS 320, RSSS 335, SBS 320, SGPP 384, SOC 150B2, SOC 202, SOC 320, SPAN 150B1, SPAN 160D1, SPAN 210, SRL 353, TLS 200, TLS 240, TLS 331, WFSC 223

GE 32 unit check   (R16786)
Not Satisfied: Students must complete 32 units in General Education coursework while satisfying the requirements.

Check for 32 units of GE   *(R16786/10)*
   Not Satisfied: Students must complete 32 units in General Education coursework while satisfying the requirements.

  · **Units:** 32.00 required, 0.00 completed, 32.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

General Education Portfolio   *(Exit Course) (RG18704)*
Not Satisfied: General Education Portfolio (Exit Course)

General Education Portfolio - Exit Course   *(R16659/L10)*
  Not Satisfied: Students admitted to the university as First-Year students reflect on their General Education experience and complete their ePortfolio in the GE Capstone course. (1 unit)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

    Courses Available

    UNIV 301

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)*

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)

Not Satisfied: Will appear fully satisfied when student satisfies Computer Science requirements.

Computer Science   *(R15805/L10)*
   Not Satisfied: Complete 1 course. One of the following courses is recommended for most students: CSC 110, ISTA 130, ECE 101, or CHEE 205; other options may require additional prerequisites and/or a major or minor declared in another subject.

   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

   Courses Available

   BME 225, CHEE 205, CSC 110, CSC 120, ECE 101, ECE 175, ECE 201, GEOS 280, ISTA 130, MIS 301, NROS 311, PHYS 305

Math Major Core Requirements   (R971)

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

   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
	MATH	129						
	MATH	223						
	MATH	313						

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	MATH	323						
	MATH	355						

Courses Available

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

Emphasis in Computer Science Mathematics *(RG670)*

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 *(R16645)*

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

Option 1: Abstract Algebra *(R16645/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 *(R16645/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 *(R16645/L30)*
  Not Satisfied: OR Complete MATH 475A

· **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   *(R16645/L40)*
  Not Satisfied: Complete MATH 475A and 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 485

Computer Science Emphasis Requirements   *(R981)*
Not Satisfied: Will appear fully satisfied when student satisfies one advanced linear algebra course, and two of the electives.

Advanced Linear Algebra   *(R981/L20)*
  Not Satisfied: Complete one 400-level Linear Algebra course.

· **Units:** 3.00 required, 0.00 completed, 3.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

DATA 412, MATH 412, MATH 413

Electives   *(R981/L50)*
  Not Satisfied: Complete two additional 400-level MATH courses from the list, for a total of five distinct courses in the emphasis.

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

CSC 401A, CSC 401B, CSC 473, DATA 412, DATA 468, MATH 401A, MATH 401B, MATH 402, MATH 412, MATH 413, MATH 415A, MATH 415B, MATH 422, MATH 424, MATH 432, MATH 443, MATH 445, MATH 446, MATH 447, MATH 454, MATH 456, MATH 464, MATH 466, MATH 468, MATH 475A, MATH 485, PHIL 401A, PHIL 401B

Major 400-level Upper Division   *(R981/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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Computer Science Math Emphasis Graduation Requirements (R1154)

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 (R1154/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 (R1154/L10)

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

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

Major Units (R1154/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 (R1154/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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Major Upper Division   *(R1154/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)