By merging modern data science approaches with a solid mathematical background and practical training, the Undergraduate Degree in Statistics and Data Science provides a curriculum that allows students to make significant contributions at the forefront of knowledge across the vast array of activities in government, education, and industry that rely on statistical thinking.

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

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

Required Units:
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes his/her academic plan(s); 
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) 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
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
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
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
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
Satisfied: A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.
Non Degree Seeking Limit
A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements.
Units exceeding this limit (shown below) must be subtracted from the units required towards the degree and graduation requirements.

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

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

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

Foundation Mathematics
Not Satisfied: Foundation Mathematics

GE Substantial Math Strand
Not Satisfied: Complete 1 course.

GE Substantial Math Strand
Not Satisfied: Complete 1 course.

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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

Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Complete 1 of the following 4 Foundation Composition options:
1. 3 Course Foundation Composition Sequence
2. 2 course Foundation Composition sequence
3. Honors Composition with grade of C or higher
4. Honors Composition with a grade of D and Second Semester Composition.

Please note: Students who earn a grade of D in Honors Composition may choose to repeat the course in order to earn a higher grade to satisfy the requirement. Please consult with your major advisor.

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

Option 1: Foundation Composition - 3 Course Sequence

· Courses: 3.00 required, 0.00 completed, 3.00 needed

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

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, ENGL 102, ENGL 108

OR Option 3: Honors Composition
Not Satisfied: Complete 1 course with a C or better.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 109H

Foundation Second Language - Fourth Semester Proficiency
Not Satisfied: Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must be taken for a grade, not 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
Courses used to fulfill this requirement may also be used to fulfill other requirements.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

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 300, GER 301, GRK 202, GRK 204, GRK 212, GRK 402, GRK 412, GRK 424, ITAL 202, ITAL 202Z, 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, RSSL 301, RSSL 302, RSSL 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
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

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Courses Available

ARB 401

AND Option 2: Additional Arabic Courses
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

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</table>
Courses Available

General Education Tier I
Overall Requirement Not Satisfied: Complete each of the following areas.

Tier I Individuals & Societies
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

Courses Available

Courses Available

Courses Available

Courses Available

Courses Available

Courses Available

Courses Available

Courses Available
Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available


General Education Tier II

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

Tier II Arts

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

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

Courses Available


Tier II Humanities

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

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


Tier II Individual & Societies

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

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

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Courses Available


Tier II Natural Sciences

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

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### Courses Available

- ABE 270
- ACBS 310
- ANTH 257A
- ANTH 257B
- ANTH 258
- ANTH 261
- ANTH 324
- ANTH 364
- ANTV 364
- ASTR 201
- ASTR 202
- ASTR 203
- ASTR 204
- ASTR 206
- ASTR 208
- ASTR 214
- ATMO 352
- ATMO 353
- CHEM 257A
- CHEM 257B
- CHEM 258
- CHEM 261
- MIC 204
- MIC 310
- MCB 239
- MCB 261
- MCB 265
- MSE 225
- MSE 257A
- MSE 258
- MSE 259
- MSE 261
- NSC 310
- NSC 353
- NSC 375
- OPTI 200
- PHIL 305
- PHIV 305
- PHYS 200
- PTYS 206
- PTYS 212
- PTYS 214
- SCI 203
- SLHS 261
- SLHS 263
- SLHS 267
- SLHS 270
- SLHS 362
- TLS 201
- (***) (###)

### Diversity Emphasis Course

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

### Courses Available

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### Additional Coursework

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

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

**BA in Statistics and Data Science**

*Overall Requirement Not Satisfied:* Will appear fully satisfied when student satisfies Statistics and Data Science Supporting Computer Science, Statistics and Data Science Core Requirements, Statistics and Data Science Graduation Requirements, and select a minor.

**Statistics and Data Science Supporting Computer Science**

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

**Computer Science**

*Not Satisfied:* Complete 1 course. Courses used to fulfill this requirement may be used to fulfill other requirements.

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

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**Courses Available**

CSC 110, ISTA 130

**Statistics and Data Science Core Requirements**

*Overall Requirement Not Satisfied:* Will appear fully satisfied when student satisfies Calculus I, Calculus II & Vector Calculus, Linear Algebra, Core Courses, and Major Elective.

**Calculus I**

*Not Satisfied:* Complete 1 course

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

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**Courses Available**

MATH 122B, MATH 125

**Calculus II & Vector Calculus**

*Not Satisfied:* Complete 2 courses

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

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Courses Available
MATH 129, MATH 223

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

Courses Available
MATH 310, MATH 313

Core Courses
Not Satisfied: Complete 6 courses
- Courses: 6.00 required, 0.00 completed, 6.00 needed

Courses Available
MATH 363, MATH 464, MATH 466

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

Statistics and Data Science Graduation Requirements
Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Mid Career Writing Assessment, Major units, Major GPA, Major Upper Division units, and Major Residency requirement.

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

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

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**Major Units**

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

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

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**Major GPA**

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

- **Units**: 0.00 completed
- **GPA**: 2.000 required, 0.000 completed

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**Major Upper Division**

**Not Satisfied**: A minimum of 21 units of upper-division major coursework must be completed.

- **Units**: 21.00 required, 0.00 completed, 21.00 needed

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**Major Residency**

*Not Satisfied:* A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

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

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**Minor Required**

*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.