Academic Advisement Report
UGRD.USCNC.STATDSBA
Undergraduate Career
College of Science Program
Statistics and Data Science Major (BA)
Requirement Term: Fall 2023

MAIN Campus at TUCSON Location

Big data is changing the world. Offered through the Department of Mathematics, this degree prepares you to take part in the data revolution. Students earning a Bachelor of Science or Bachelor of Arts in Statistics and Data Science will have a solid foundation in mathematics. Yet they focus on the capture, maintenance, processing, analysis and communication of data through immersion in courses in probability, statistics, data science and computer programming. Undergraduates also must complete a minor outside the Department of Mathematics. The B.A. and B.S. allow students to pursue graduate degrees or careers in analytics, risk assessment, finance, and other math- and science-related fields.

LEARNING OUTCOMES
- Apply methods and concepts from their coursework to analyze data based scientific problems
- Be able to define mathematical and statistical terms precisely
- Critically evaluate and extend statistical models drawn from current scientific literature
- Effectively communicate their results
- Produce effective analyses from data using a variety of computational, mathematical, and statistical approaches
- Recognize when arguments, especially formal statistical procedures and data visualization, are valid, and identify logical flaws

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 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
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
Upper Division Units in Residence

**Not Satisfied:** A minimum of 18 units of upper division credit in residence at the University of Arizona (excluding correspondence credit and credit by exam) is required.

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

Correspondence and/or Exam Credit Limit

**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

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

**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

**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.

General Education Entry Course

**Not Satisfied:** General Education Entry Course

- **Introduction to General Education course**
**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

### Courses Available

**UNIV 101**

**General Education Foundation Mathematics**

Not Satisfied: General Education Foundation Mathematics

**GE Substantial Math Strand**

Not Satisfied: Complete 1 course.

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

### Courses Available

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

**General Education Foundation Composition & Second Language**

Overall Requirement Not Satisfied: Undergraduate General Education Foundation Composition & Second Language

**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
### Courses Available

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**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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**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**

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


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


OR Option 2: Arabic Language

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

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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, 484B.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

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

General Education Core Requirements

Overall Requirement Not Satisfied: General Education Core Requirements

GE Exploring Perspectives

Overall Requirement Not Satisfied: Choose one course from each category.

Artic Courses

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

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Courses Available

AFAS 218, AFAS 245, AFAS 373, ARC 160C1, ARC 303, ARH 320, ARH 322, 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 284, FREN 373, FTV 352, HNRS 216, HNRS 222, ISTA 401, ITAL 330B, JPN 245, LAS 322, LAS 337, MAS 337, MUS 101A, MUS 108, MUS 328, MUS 337, MUS 360, PAH 150A1, RELI 240, SPAN 160C1, TAR 100, TAR 303

Humanist Courses

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

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Courses Available


Natural Scientist Courses

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

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Courses Available

AGTM 170A1, ANTH 160D2, ANTH 170C1, ANTH 261, ASTR 170B1, ASTR 206, ATMO 170A1, BE 170A1, BE 170A2, CHEM 151, CHEM 152, CHEM 161, CHEM 162, ECOL 170C1, ECOL 170C2, ENV 170A1, ESO 210, GC 170A, GEOG 230, GEOS 170A1, GEOS 212, GEOS 218, GEOS 220, HRWS 170A1, MGE 220, NSC 170C1, NSC 375, PHYS 141, PHYS 161H, PLS 170C1, PLS 170C2, PLS 307, PTYS 206, RNR 170C1

Social Scientist Courses

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 317, ANTH 339, AREC 210, AREC 217, CLAS 160D3, ECON 200, EDP 150B1, EDP 200, ENGL 160D1, ENGL 322, FIN 150C1, FITS 204, FREN 150B1, GEOG 150C1, GEOG 222, GEOG 250, GEOG 367, GER 150A1, GER 244, GWS 252, GWS 448, GWS 459, HDFS 200, HED 350, HIST 150C1, HIST 150C2, HIST 150C3, HIST 252, HIST 307, HNRS 219, HPS 200, HUMS 376, ITAL 150B1, ITAL 150C1, ITAL 160B1, ITAL 160D1, LAS 150B1, LAS 150B2, LAS 204, LAS 230, LAS 280, LAS 312, LAS 317, LAW 389, LING 320, LING 322, MAS 150B2, MAS 150C1, MAS 317, MAS 365, PA 241, PA 312, POL 202, POL 312, POL 314, PSY 101, PSY 150A1, PSY 200, SERP 200, SOC 150B1, SOC 150C2, SOC 222, SOC 241, SOC 260, SOC 324, SOC 325, SOC 367, SOC 448, SOC 459, SPAN 200, TLS 150B1, TLS 150C1, TLS 310, TLS 331

GE Building Connections

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

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

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Courses Available


GE 32 unit check

Not Satisfied: Students must complete 32 units in General Education coursework while satisfying the requirements.

Check for 32 units of GE

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
### General Education Portfolio

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

**General Education Portfolio - Exit Course**

- **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

### Courses Available

**UNIV 301**

### 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 full 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 Computing Requirements

**Overall Requirement Not Satisfied:** Will appear fully satisfied when student satisfies a Python Programming Course and a Data Management/SQL Course.

### Python Programming Course

**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, CSC 120, CSC 250, ISTA 130**

**Statistics and Data Science Data Management/SQL Course.**

*Not Satisfied:* Will appear fully satisfied when student has satisfied 1 approved Data Management/SQL 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**

- **ISTA 322**

**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

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Courses Available

MATH 215, MATH 310, MATH 313

Core Courses

Not Satisfied: Complete 6 courses. Credit allowed for only one course: DATA 363 or MATH 363.

- Courses: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available

DATA 363, DATA 375, DATA 467, DATA 498A, MATH 363, MATH 464, MATH 466

Major Elective

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

DATA 367, DATA 396T, DATA 412, DATA 462, DATA 468, DATA 496T, DATA 498H, MATH 412, MATH 462, MATH 468, SIE 440

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.