UCDAVIS
DEPARTMENT of STATISTICS

STATISTICS.UCDAVIS.EDU

4118 MATHEMATICAL SCIENCES BUILDING

OUTLINE

- Academic Advising @ UC Davis
- Summer Roadmap
- Non-Major Requirements
- Major Programs & Tracks
- Scheduling and Sample Plans
- Fall Expectations & Getting Involved

ACADEMIC ADVISING

UC Davis has a decentralized advising structure. You have different advisors for different things (e.g. Financial Aid Office, Internship and Career Center, etc.). In terms of academic advising, you also have two different types of advisors.

COLLEGE ADVISING

COLLEGE OF LETTERS AND SCIENCE

Statistics is a major within the College of Letters and Science. Your advisors in the College of Letters and Science Office of the Dean can provide advice on your non-major requirements, academic difficulty, and more. They do not provide advice related to your major.

MAJOR ADVISING

DEPARTMENT OF STATISTICS

Advisors in the Department of Statistics can provide information specific to your major. They can help with academic planning, understanding policies and requirements, getting involved in department programs, etc.

If you don't know where to go, that is okay! Your advisors will refer you to the appropriate office/resource. We are all here to help you make the most of your time at UC Davis and share important resources, organizations, opportunities, etc.

STATISTICS ADVISING

Jeff Katz **Kim McMullen**

STAFF ADVISORS

Assists students with general academic planning, clarifying department requirements and policies, approving forms and petitions, and providing referrals to campus resources.

Professor Ethan Anderes

FACULTY ADVISOR

Offers advice on the major program, course selection, post-graduation opportunities and research/independent study. They also approve electives and major modifications, and evaluate transfer course articulations.

Junhee, Cindy, Kevin, Jose

PEER ADVISORS

Offer a peer perspective on course selection, research, internships, change of major and minor information, and navigating campus resources.

Meet with any of your advisors by making an appointment or attending their drop-in hours. Details can be found at statistics.ucdavis.edu/undergrad/advising.

SUMMER ROADMAP

01 **AGGIE 101**
All incoming transfer students are expected to complete Aggie 101. This online program will get you acquainted with how UC Davis is structured, what resources we have to offer, and help you understand your non-major requirements.

02 **AGGIE ADVISING**
Part 1: Complete Aggie Advising Canvas Modules.

Part 2: Make an appointment with your Major Advisor.

03 **REGISTRATION**
Transfer students will be assigned a registration period beginning on **August 15th**. You will register using Schedule Builder. This is your first opportunity to register for classes.

04 **Statistics Department Transfer Student Prep Modules**
Instructors in the Department of Statistics have put together Modules to help prepare new students for their fall quarter Statistics courses. The modules will review core concepts in statistics and probability, essential mathematical tools, and it will introduce computing techniques in programming and data analysis. Reviewing the prep modules is optional, but strongly encouraged. You will be given access to the modules in July.

05 **Aggie Orientation**
Aggie Orientation will be held **September 20th-23rd**. You can find out more at orientation.ucdavis.edu/aggie-orientation

NON-MAJOR REQUIREMENTS

In addition to your major requirements, you have university, general education, and college requirements. You will learn more about these and other scholarship and residency requirements in Aggie 101 and the Aggie Advising Canvas Modules, but below is a brief outline.

- **University Requirements**
  - 180 Unit Requirement
  - American History and Institutions Requirement
    - may have already been satisfied by previous high school or college coursework.
- **General Education Requirements (Satisfied by IGETC)**
  - Courses in Topical Breadth (52 units) and Core Literacies (35 units)
  - Find out more at ge.ucdavis.edu/requirements.
- **College Requirements (for students in the College of Letters and Science Only)**
  - 64 Upper Division Unit Requirement
  - College English Composition Requirement (Lower Division & Upper Division)
  - Foreign Language Requirement-AB Degrees ONLY (Satisfied by IGETC)
  - Natural Science and Math Requirement-BS Degrees ONLY (Satisfied by IGETC)

OUR MAJORS

The Department of Statistics houses two undergraduate major programs: **Statistics and Data Science**. In addition to the undergraduate program, the Department of Statistics offers MS and PhD programs in Statistics and houses a Graduate Group in Biostatistics.

MAJORS

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STATISTICS OVERVIEW

The Statistics major has both a Bachelor of Science (BS) and a Bachelor of Arts (AB). The BS has five different major emphases called tracks. The tracks are Applied Statistics Track, Computational Statistics Track, General Statistics Track, Machine Learning Track, and the Statistical Data Science Track.

MAJORS

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DATA SCIENCE OVERVIEW

Data Science is a new major at UC Davis that began in Fall 2022. Data Science is a BS degree and it has one track: the Foundations Track.

STATISTICS MAJOR TRACKS

APPLIED

Emphasizes statistical applications. AB or BS options.

FEATURES
- core statistics courses
- statistics electives
- electives in area of emphasis

UNITS
AB: 65-71
BS: 75-83

GENERAL

Emphasizes statistical theory.

FEATURES
- core statistics courses
- advanced math courses
- statistics electives

UNITS
82-84

STATISTICAL DATA SCIENCE

Emphasizes data handling skills.

FEATURES
- core courses
- specialized data science courses
- electives in Stats, Math, and Computer Science

UNITS
79

MACHINE LEARNING

Emphasizes statistical learning methods.

FEATURES
- core courses
- specialized machine learning courses
- electives in Stats, Math, and ECS

UNITS
79

COMPUTATIONAL

Emphasizes computing.

FEATURES
- core statistics and computer science courses
- electives in Stats, Math, and Computer Science

UNITS
79-80

Additional details can be found on the Statistics Website.

DATA SCIENCE MAJOR DETAILS

FOUNDATIONS TRACK

Combines applied and theoretical foundations in Data Science.

FEATURES

- specialized interdisciplinary data science classes.
- core course work in ECS, MAT and STA
- electives

UNITS

91

ADDITIONAL INFORMATION

Data Science is a new major at UC Davis that launched last year. It is a collaboration between the College of Letters and Science and the College of Engineering.

Since this major consists of many new classes including preparatory coursework, it is expected that transfer students will not have completed a majority of the preparatory major requirements prior to transferring. This means that your timeline will be impacted. We expect this program to be a minimum of 2 years and 2 quarters or a 3 year program.

When you have an appointment with Jeff or Kim, you can discuss your expected timeline and if alternative areas of study would better suit your goals and timeline.

Additional details can be found on the Statistics Website.

SAMPLE SCHEDULES

MAJOR CHECKLISTS AND SAMPLE PLANS

- The **Major Checklist** includes requirement checklists and sample schedules for the Data Science major and each of the Statistics major tracks.
  - The sample schedules for Statistics assume you have completed all of the preparatory subject matter and only include your major requirements. The sample plan for Data Science assumes you have completed part of the preparatory requirements.

INDIVIDUALIZED SAMPLE PLANS & AGGIE ADVISING

- If you have started the Aggie Advising Canvas Modules, you will have been recommended to complete an Aggie Advising Checklist. If you are having trouble with your self-check, don't worry about it! When you meet with your advisor for an appointment, they will have reviewed your transfer coursework and they will also email you individualized sample plans before your appointment.
- During your Aggie Advising appointment you will discuss the individualized plans and create a schedule for Fall quarter and beyond.
  - During your appointment we will be using an online advising tool called OASIS (Online Advising Student Information System). This is a great tool for creating academic plans, checking transfer coursework, and more! You can access it now at OASIS.ucdavis.edu.

SUMMER CLASS INFO

SUMMER 2023 CLASSES

Transfer students can take classes Summer 2023 at UC Davis if they would like to. If you are considering taking Summer classes, please be sure to meet with Jeff or Kim to discuss which classes would benefit you the most.

Summer at UC Davis consists of two sessions. **Summer Session I is Jun 26 - Aug 4** and **Summers Session II is Aug 7 - Sep 15.**

Statistics Majors
Preparatory major coursework in MAT, ECS, and STA are all offered in Summer. If you have not completed all of your preparatory major coursework, making more progress in your preparatory coursework may be helpful depending on your ideal timeline. We don't recommend taking upper division major coursework this Summer.

Data Science Majors
As with Statistics, preparatory coursework in MAT and ECS will be offered in Summer. The intro STA classes Data Science majors take are not offered in Summer.

SCHEDULING FALL

TYPICAL SCHEDULE

1. **MAJOR COURSE**

2. **MAJOR COURSE**

3. **NON-MAJOR COURSE**

4. **SEMINAR**

TOTAL UNITS: 12-15

ONLINE RESOURCE LINKS

- **Schedule Builder**
  - sisweb.ucdavis.edu
- **First Year Seminars**
  - fys.ucdavis.edu
- **First Year Aggie Connections**
  - aggieconnect.ucdavis.edu

GENERAL RECOMMENDATIONS

- Do not take more than two major courses in Fall (or in the future if possible).

- Balance your schedule by taking 1-2 non-major courses.

- Take advantage of First-Year Seminars and First-Year Aggie Connections.

- You need at least 12 units to be considered a full-time student.

- Make sure you meet with your advisor before August 15th so you know what specific classes you should register for.

TRANSFER STUDENT SEMINAR

Your Aggie Toolkit: Algorithms For Transfer Student Success (STA 198)

For incoming transfer students in Statistics and Data Science only. Get connected with the Department of Statistics and build community with fellow transfer students. Learn about campus programs and resources to assist in your academic journey. We will explore career outcomes, internships, research, and graduate school in the fields of Statistics and Data Science. This course will include guest speakers, engaging activities and fun challenges to jump start your UC Davis experience!

Day & Time: Wednesdays (11-11:50am); Mathematical Sciences Building 1147
Format: This Connection will be hosted in-person, on-campus
This Connection is for credit and exclusively reserved for statistics and data science majors. Register in Schedule Builder during your pass time (**CRN 50608**). Students who register will receive 1 unit in STA 198.

REGISTRATION BASICS

Your first opportunity to Register will begin August 15th. You will register for classes using <u>Schedule Builder</u>.

Upcoming Pre-Registration Workshop
Thursday, August 10th at 5:30pm
Registration Link: <u>https://ucdavis.zoom.us/meeting/register/tJMpcuirrTIpG9S9tVd-hwEfjulg4sBuagVl</u>

Pass 1 vs. Pass 2
- Pass One Registration
    - Your first opportunity to register and waitlist!
    - Allows you to register or waitlist for up to 17 units.
    - Registration in some courses is restricted to certain populations/majors during Pass One.
    - Waitlisting in certain courses is restricted.
- Pass Two Registration
    - You will be assigned a registration appointment time between (August 21-Septembe 1)
    - Another opportunity to register.
    - Allows you to register or waitlist for up to 19 units.
    - First opportunity to register or waitlist for courses with Pass One Registration Restrictions.

Prerequisite Petitions
- If UC Davis does not have your updated records or if the course equivalencies are not articulated correctly, you may be required to submit a Prerequisite Petition in Schedule Builder before you can register for a course. Prerequisites are taken very seriously by our department. Please be sure that your Prerequisite Petitions are thorough and provide documentation.

STA CLASS BASICS

- **Typical Course Structure**
  - Most STA classes have two components to the class: a lecture and a discussion/lab.
  - Lectures typically meet two to three times per week for 50-80 minutes and are led by the course instructor.
  - Discussions/Labs meet once per week for 50 minutes and are led by a graduate student Teaching Assistant (TA).
- **Carnegie Rule**
  - For every hour you spend in class, you will be expected to spend at least 2 hours outside of class studying and completing homework per week. This may also vary depending on your preparedness for the class and aptitude for the subject.
- **Course Drop Deadlines**
  - All courses at UC Davis either have a 10-Day or 20-Day drop deadline. This means that you only have the opportunity to drop that course through the 10th day or 20th day of instruction. Most Statistics courses have 10-Day drop deadlines. Dropping a course after its drop deadline can only be granted for extreme situations by the Letters and Science Office of the Dean. There is not a "W" option like at many community colleges.

WHAT TO EXPECT IN FALL

- **Quarter System vs. Semester System**
  - Many transfer students are coming from institutions on the semester system. Quarters at UC Davis are only 10 weeks! This means that as early as Week 3, you may have midterms. It is extremely important that you start putting in work outside of just attending class and doing homework right away. You are also responsible for seeking additional support if you are confused about a concept. It can be very difficult to catch up if you get behind!
- **Office Hours vs Peer Tutoring**
  - There is some peer tutoring available for specific introductory courses through the UC Davis Tutoring Center. Since most courses do not have peer tutoring resources, students are expected to go to office hours. Both instructors and graduate student TAs hold office hours. Attendance at office hours is vital to your success at UC Davis, especially in upper division coursework. Please keep this in mind as you schedule your courses. In addition to the formal course activities (lecture and discussion), you will need to make time for office hours.
- **Other Study Habit Tips**
  - Be sure to go to class! Even if the instructor records their lecture, watching the recording does not replace attending class in person and actively engaging in the course. Lecture recordings are meant for review only.
  - Form study groups, but know you are responsible for learning the material and solving your own problems. Forming study groups has significant benefits, but be sure to work on practice problems independently and do not rely too heavily on group members for information. You won't be taking exams, attending interviews, etc. as a group.
  - Read the textbook!

GETTING INVOLVED

CLUBS TO JOIN

- **Data Science Club**
- **Moneyball Club**
- **& 800+ More!**

RESEARCH

- **Statistics students work with Statistics faculty as well as with faculty all over campus. Students working with Statistics faculty can get academic credit (STA 199) for their research to replace a major requirement.**

STAYING INFORMED

- **Read the Statistics Newsletter!**
  - You will be automatically enrolled in the Statistics Newsletter. Get updates on department events, internships, and other important announcements.

QUESTIONS?