Statistics SUMMER & FALL ENROLLMENT

**Please read this email as it contains important information on Fall Enrollment!

**Please see the following enrollment resources prior to scheduling an advising appointment:

- Statistics Majors FAQ: https://stat.wisc.edu/undergraduate-studies/faqs-for-statistics-majors/
- Registrar's Office Fall 2021 FAQ: https://registrar.wisc.edu/fall-2021-enrollment/
- Chancellor's Blog – Fall 2021 Plan: https://chancellor.wisc.edu/blog/creating-the-new-normal-returning-to-campus/

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1. **Important Dates**

    Late March – Fall 2021 courses available on Course Search & Enroll

    April 6th – First day of Senior standing for Summer 2021 enrollment

    April 7th – First day of Junior standing Summer 2021 enrollment

    April 8th – First day of Sophomore standing Summer 2021 enrollment

    April 9th – First day of Freshmen standing Summer 2021 enrollment

    April 13th – First day of Senior standing Fall 2021 enrollment

    April 16th – First day of Junior standing Fall 2021 enrollment

    April 21st – First day of Sophomore standing Fall 2021 enrollment

    April 25th– First day of Freshmen standing Fall 2021 enrollment

2. **Summer 2021 Course Offerings**
    The following are the course offerings for Summer 2021 that can count towards the Statistics Major:
    Introductory Courses: STAT 240, 301, 324, and 371
    R Courses: STAT 303 and 304
    Core Courses: STAT 431 and 310

Statistics Elective: STAT 475, 525, and 632

3. **<u>Advising</u>**

Advisors are here to help with Summer & Fall Enrollment! Advisors' schedules fill up quick so please plan accordingly! To schedule an appointment with an advisor, please use STARFISH. If you are unavailable during your advisor's availability, please email your advisor.

Before coming to your appointment, please have reviewed your DARS to have efficient and effective conversations.

Advisors will continue to only be available for phone appointments or video appointments. Emails are always welcomed.

Advisors:

[Laura Juszczyk](#)

[Sara Rodock](#)

For additional information, please visit http://www.stat.wisc.edu/undergrad/undergraduate-advising.

For enrollment questions, please visit https://stat.wisc.edu/courses-and-enrollment/.

4. **<u>Fall 2021 Statistics Elective Courses</u>**

Here are the Statistics Elective course offerings for Fall 2021:

<u>Stat 421: Applied Categorical Data Analysis</u>
Analysis of multidimensional contingency tables, Poisson regression, and logistic regression, with emphasis on practical applications. Use of computer programs for such analyses. Model selection, testing goodness of fit, estimation of parameters, measures of association and methods for detecting sources of significance.
Requisites: Stat 333 or 340

<u>Stat 433: Data Science in R</u>
Perform Data Science as an iterative (back and forth) process of four different types of activities (data collection, data wrangling, data analysis, communication). Traverse through the five requisite stances (scientist, coder, mathematician, methodologist, skeptic). Develop and hone a broad set of computational tools in R (but not the broadest) and a broad set of statistical/machine learning tools (but not the broadest). Focus on doing these with agility to make the coding "transparent" and serve the large goals of the project.
Requisites: (Stat 333 or 340) and (Math 320, 340, 341, or 375)

<u>Stat 451: Introduction to Machine Learning and Statistical Pattern Classification</u>
Introduction to machine learning for pattern classification, regression analysis, clustering, and dimensionality reduction. For each category, fundamental algorithms, as well as selections of contemporary, current state-of-the-art algorithms, are being discussed. The

evaluation of machine learning models using statistical methods is a particular focus of this course. Statistical pattern classification approaches, including maximum likelihood estimation and Bayesian decision theory, are compared and contrasted to algorithmic and nonparametric approaches. While fundamental mathematical concepts underlying machine learning and pattern classification algorithms are being taught, the practical use of machine learning algorithms using open source libraries from the Python programming ecosystem will be of equal focus in this course.
Requisites: Math 320, 321, 340, or 341

Stat 479: Bayesian Data Analysis
This course will introduce undergraduate students to data analysis from the Bayesian perspective, with an emphasis on conceptual foundations and computation using the open-source software R. The specific learning outcomes for the course are demonstrated abilities to carry out an applied Bayesian data analysis; to effectively communicate the results of such an analysis; and to critically evaluate a Bayesian analysis.

Topics include: the subjective basis of probability; Bayes' theorem; posterior inference in conjugate models; subjective and objective prior elicitation; Bayesian hypothesis testing; hierarchical and multi-level models; Markov Chain Monte Carlo (MCMC) methods for sampling from intractable posteriors; and applied modeling in R.

Requisites: Stat 333 OR Stat 340

Stat/Math 475, 525, and 632 will also be offered through the Math Department.

*If Stat 433 and Stat 451 do not appear on your DARS as an elective option, don't worry. If you enroll in one of these courses, your statistics advisor will update your DARS once the semester has started to count the course as one of your statistics electives. These are newer statistics electives which is why they may not appear on some DARS reports automatically.

Due to the limited seating in the Statistics Elective courses (Stat 351, Stat 433, Stat 443, Stat 453, Stat 479 – Statistical Data Visualizations), it is expected that students *will not enroll in more than two* Statistics Elective courses unless approved by a statistics advisor.

5. **Enrollment Holds**

Please check to see if you have any enrollment holds on your record! Enrollment holds will prevent you from enrolling into courses until the hold is released. To check if you have any holds, visit your Student Center (see here for steps). You should check for holds now and periodically between now and your enrollment appointment time.

For more information on enrollment holds, visit https://kb.wisc.edu/helpdesk/page.php?id=4139.

6. F-1/J-1 Visa Students and Fall 2021 Enrollment

Please stay updated on guidance from ISS at https://iss.wisc.edu/students/current-students/health/covid-19-updates/.

Have Visa or I-20 questions? Contact your ISS Advisor through TerraDotta (tutorials at https://iss.wisc.edu/terra-dotta-tutorials/).

a) Reduced Course Load Form Information

If you are a F-1 or J-1 Visa international student and plan to graduate Fall 2021, please read the following important message.

For F-1 or J-1 Visa students, there is an option for you to be enrolled in less than 12 credits in your final semester of study and maintain your visa status. You must complete a Reduced Course Load form in TerraDotta in order to qualify. It is highly recommended you to talk with a statistics advisor and complete this form prior to the last day of spring semester courses, even if you are unsure of how many credits you are going to enroll in. Failure to do so may result in being unable to drop courses before deadlines and not receiving a full refund on courses you drop.

7. Planning to Graduate in Fall 2021?

If you are planning to graduate December 2021, it is highly recommended that you apply for graduation after enrolling into your courses. To apply for graduation, follow these steps:

1. Login to My UW-Madison.
2. Open the Student Center app. If the app is not on your homepage, search for "Student Center". You can add the app to your homepage from the search results screen for easier access in the future.
3. Locate the "**Academic Records**" section on the Student Center.
4. Find and select the **Apply for graduation** on the left-hand side.
5. Click on the **Apply for Graduation** link for the Degree in which you are graduating.
6. Select the term in which you expect to receive your degree. Click the **Continue** button.
7. Select the commencement ceremony in which you plan to attend. Answer the two questions relating to how your name will print in the Commencement Program.
8. Click the **Submit Application** button. You will be brought to a Confirmation page. You should also receive an email stating you have successfully applied.
9. Verify your Name, Address, Degree and Commencement information.

For additional information, please visit https://kb.wisc.edu/helpdesk/page.php?id=4128.

***If you should have issues preventing you to enroll into courses at your enrollment time and your situation is unique, please contact your advisor as soon as possible.