

Statistics Majors:

Please carefully read this entire email as it contains important information regarding Fall 2022 enrollment. As always, if you have questions feel free to reach out to your advisor. If you have significant issues preventing you from enrolling into courses at your enrollment time, please contact your advisor ASAP.

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1. LINKS

- Statistics major page: <https://stat.wisc.edu/undergraduate-statistics-major/>
- Guide pages (2021 curriculum)
 - BA: <https://guide.wisc.edu/undergraduate/letters-science/statistics/statistics-ba/#requirementstext>
 - BS: <https://guide.wisc.edu/undergraduate/letters-science/statistics/statistics-bs/#requirementstext>
- STAT course enrollment FAQ: <https://stat.wisc.edu/courses-and-enrollment/>
- MATH course questions: <https://math.wisc.edu/undergraduate/placement/>
- How to run a DARS report: <https://registrar.wisc.edu/dars-student/>
- Dates and deadlines: <https://registrar.wisc.edu/dates/>
- Enrollment holds: <https://kb.wisc.edu/helpdesk/page.php?id=4139>
- Apply to graduate: <https://registrar.wisc.edu/applyforgraduation/>

2. IMPORTANT DATES AND DEADLINES (<https://registrar.wisc.edu/dates/>)

- March 7 – Fall 2022 Schedule of Classes available via the course search and enroll application
- April 4th – Fall 2022 enrollment appointments released
- April 13th – Fall 2022 enrollment begins (seniors, then other years after)

3. ADVISING

During the Fall 2022 term Statistics major advising is available from Carmela Diosana & Sara Rodock (<https://stat.wisc.edu/undergraduate-statistics-major/>) via phone or Zoom. Please note that there will be no individual advising appointments with Carmela from April 18-22. Students are strongly recommended to schedule advising appointments for before or after that time or send emails to advising@stat.wisc.edu.

4. 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 to see how to remove the holds. 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>.

5. STATISTICS MAJOR COURSE PRIORITY ACCESS

Please note that the majority of courses for the Statistics major that are taught by Statistics have a priority access hold until April 25th. This is to help ensure that declared Statistics major get first access. It is very important that you enroll for courses as close to your enrollment appointment time as possible, given the number of students we cannot guarantee that seats will be available after April 25th. We will do our best to accommodate as many students from the wait list. For this reason we ask that you not over-enroll in more Stat major courses than you need. Doing so does result in your peers not gaining access to courses they need for graduation.

Students not yet declared in Statistics who intend to be should follow the declaration steps outlined on our webpage (<https://stat.wisc.edu/undergraduate-statistics-major/>)

6. CLASS ATTENDANCE POLICY:

It is expected that every student will be present at all classes. Be careful to make sure you are not enrolling in courses that meet at the same time.

<https://kb.wisc.edu/ls/page.php?id=24628>

7. STAT ELECTIVES COURSES

In Fall 2022 we plan to offer the following Statistics major electives taught by the Statistics department. Please note that if you attempt to enroll in lecture sections other than the ones listed below you will not have permission as these sections are held for student in other Statistics programs.

If you are a student who declared before Fall 2019, please send any elective course questions to your assigned advisor or advising@stat.wisc.edu.

- STAT 349 Introduction to Times Series (Lecture 001): Autocorrelation; stationarity and non-stationarity; heteroscedasticity; dynamic models; auto-regressive and moving average models; identification and fitting; forecasting; seasonal adjustment; applications for financial time series, social sciences and environmental studies. Enroll Info: None
Requisites: STAT 333, 340, graduate/professional standing, or declared in Statistics VISP
- STAT 421 Applied Categorical Data Analysis (Lecture 001): 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. Enroll Info: None
Requisites: STAT 333, 340, graduate/professional standing, or declared in Statistics VISP
- STAT 433 Data Science with R (Lecture 001): 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. Enroll Info: None

Requisites (STAT 333 or 340) and (MATH 320, 340, 341, or 375), graduate/professional standing, or declared in Statistics VISP

- STAT 443 Classification and Regression Trees (Lecture 001): Introduction to algorithms and applications of classification and regression trees. Recursive partitioning, pruning, and cross-validation estimation of prediction error. Class priors and misclassification costs. Univariate and linear splits. Linear and kernel discriminant analysis and nearest-neighbor classification. Unbiased variable selection and importance scoring of variables. Least-squares, quantile, Poisson, logistic, and proportional hazards regression tree models. Tree ensembles. Subgroup identification of differential treatment effects. Multiple and longitudinal response variables. Missing values and multiple missing value codes. Comparisons with neural networks, support vector machines, and other methods. Bootstrap calibration and post-selection inference. Applications to business, social science, engineering, biology, medicine, and other fields. Enroll Info: None
Requisites: STAT 333, 340, graduate/professional standing, or declared in Statistics VISP
- STAT 451 Introduction to Machine Learning and Statistical Pattern Classification (Lecture 001 & 003):
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. Enroll Info: None
Requisites: MATH 320, 321, 340, 341, graduate/professional standing, or member of the Statistics Visiting International Scholars program.

There are other courses that are taught by other departments that are crosslisted and count towards the electives requirement such as: STAT 475 and 632. You can refer to the list in The Guide:

<https://guide.wisc.edu/undergraduate/letters-science/statistics/statistics-bs/#requirementstext>

8. STAT 340 AND 333

We have noticed a number of students enrolling in both STAT 340 Introduction to Data Modeling II and STAT 333 Applied Regression. Please note that these are considered to be equivalent courses and **only one** or the other will count towards your Statistics major, **not both**. If you have already completed STAT 340 or 333 please **do not** take the other course.

9. SPECIAL INFORMATION FOR F-1 AND J-1 STUDENTS

Please stay updated on guidance from ISS at <https://iss.wisc.edu/>.

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

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.

10. PLANNING TO GRADUATE SPRING 2022?

1. Login to My UW-Madison (<https://my.wisc.edu/>).
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.

Graduation related links:

- Office of the Registrar's Apply for Graduation page: <https://registrar.wisc.edu/applyforgraduation/>
- Office of the Registrar's diploma information page: <https://registrar.wisc.edu/diploma/>
- Applying to graduate in the student center: <https://kb.wisc.edu/helpdesk/page.php?id=4128>
- What appears on your transcript: <https://kb.wisc.edu/registrar/page.php?id=96537>
- Commencement: <https://commencement.wisc.edu/>