From:	"Sara Rodock" via Statistics Major Undergraduates
To:	statmajor@g-groups.wisc.edu
Subject:	Statistics Major - SPRING ENROLLMENT
Date:	Wednesday, October 27, 2021 12:56:41 PM

Statistics Majors:

Please carefully read this entire emails as it contain important information regarding Spring 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/)

- October 25 – Spring 2022 Schedule of Classes available via the course search and enroll application
- November 8 – Spring 2022 enrollment appointments released
- November 15 – Spring 2022 enrollment begins

3. ADVISING

During the Fall 2021 term Statistics major advising is available from Sara Rodock (https://stat.wisc.edu/undergraduate-statistics-major/) via phone or Zoom. Please note that there

will be no individual advising appointments available November 8-15. Students are strongly recommended to schedule advising appointments for before or after that time, attend an upcoming drop-in session, 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 December 1. 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 December 1. Additionally, courses such as STAT 351, 309, 424, 451, and 479 will fill quickly. 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. STAT ELECTIVES AND STAT 479 SPECIAL TOPICS COURSES

In Spring 2022 we plan to offer the following Statistics major electives taught by the Statistics department. Even if you began the major prior to Fall 2019 and these courses don't appear on your list of electives on your DARS we will count these courses (as well as STAT 475, 525, and 632 as long as they aren't also used in your math or applied concentration). 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.

- STAT 351 Introductory Nonparametric Statistics Lec 001
  Distribution free statistical procedures or methods valid under nonrestrictive assumptions: basic tools; counting methods; order statistics, ranks, empirical distribution functions; distribution free tests and associated interval and point estimators; sign test; signed rank tests; rank tests; Mann Whitney Wilcoxon procedures; Kolmogorov Smirnov tests; permutation methods; kernel density estimation; kernel and spline regression estimation; computer techniques and programs; discussion and comparison with parametric methods.
  Enroll Info: None
  Prereqs: STAT 333, 340, graduate/professional standing, or member of the Statistics Visiting International Scholars program
- STAT 451 Introduction to Machine Learning and Statistical Pattern Classification Lec 001
  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
Prereqs: MATH 320, 321, 340, 341, graduate/professional standing, or member of the Statistics Visiting International Scholars program

- STAT 479 Statistical Data Visualization Lec 001
  Techniques for visualization within data science workflows. Topics include data preparation; exploratory data analysis; spatial, tabular, and graph structured data; dimensionality reduction; model visualization and interpretability; interactive manipulation and navigation.
  Prereqs: STAT 240 or 303
- STAT 479 Data Science Computing Project Lec 003
  The development of tools necessary for collecting, managing, and analyzing large data sets. Examples of techniques and programs utilized include Linux, R, distributed computing, text editor(s), git/github, and other related tools. Work in the class will be done in teams to research, develop, write, and make presentations related to a variety of data analysis projects.
  Prereqs: (COMP SCI 200, 220, or 300) and (STAT 240 or 303)
- STAT 479 Evaluating Methodological Errors in Research Lec 005
  The published literature is filled with methodological errors. Some of these errors are small and unlikely to change the broad conclusions of the paper. Some of these errors are much larger and lead us to fundamentally question the conclusions. These errors survive through peer review! The former editor of BMJ (a major medical journal) Richard Smith said "Publication is not the end of the peer review process but a part of it."
  Finding these errors helps to improve science, but it is challenging. If it was easy, then the errors would not survive peer review! We will learn how to critically read and evaluate the use of statistics in published research. We will do this by developing various "statistical reasoning devices" and apply these devices to papers. These are (for example) general questions that you could ask of any paper and help to reflect upon your understanding of what was done and potentially highlight issues within the paper. For example, two deceptively simple questions "what groups does this paper compare?" and "why does this provide evidence for their broad conclusions"? Sometimes the answers to these questions are obvious. However, sometimes when used properly, these questions illuminate fundamental problems in the statistical reasoning of the paper.
  Perhaps you can develop a device for us to use 1) in class and 2) in our research! While critically evaluating published work is itself worthwhile, we also believe that developing these skills will also help you create more convincing evidence in your own work.
  Prereqs: STAT 310, 333, or 340

7. 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.

If you took STAT 240 as your introductory Statistics course and are NOT interested in STAT 340 as your regression course, please email advising@stat.wisc.edu for access to STAT 333. We have added STAT 240 as a possible prerequisite for STAT 333 but this will not take effect until Fall 2022. You must already have completed or be enrolled in STAT 303 to gain permission to enroll in STAT 333.

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

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/).

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.

9. 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/