This syllabus is subject to change; the final version will be made available for enrolled students at the start of the session or semester.

**Course Website.** I will post announcements, homework problems, lecture notes, and other course information in ICON [http://icon.uiowa.edu](http://icon.uiowa.edu).

**Course Description and Objectives.**
This is a course in mathematical statistics intended for upper-level undergraduate students in the mathematical sciences as well as for graduate students in all disciplines. The goal is to give students a solid foundation in the theory and methods of statistical inference. Main topics include convergence in distribution and convergence in probability, point estimation, confidence intervals, and testing of statistical hypotheses.

**Prerequisites.** STAT4100.

**Textbook.** Introduction to Mathematical Statistics (7th ed.) Hogg, McKean and Craig, (Prentice Hall). We will cover chapters 4-8.

**Grading.** Your semester grade will consist of the following components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Quiz on STAT 4100</td>
<td>10%</td>
<td>Jan 23</td>
</tr>
<tr>
<td>Midterm Exam 1</td>
<td>20%</td>
<td>Feb 22 (temporarily)</td>
</tr>
<tr>
<td>Midterm Exam 2</td>
<td>20%</td>
<td>Apr 5 (temporarily)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>TBD</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td></td>
</tr>
</tbody>
</table>

As a rough guide, A,A-= 90%−100%, B+,B,B-= 80%−90%, C+,C,C-= 70%−80%, D+,D,D-= 60%−70%. The lowest homework will be dropped.

**Homework.** Homework is weekly and due every Wednesday. No late homework is accepted. To avoid grading penalty, place a [box] around each final numerical answer, show all important steps in your reasoning, and homework must be neat and stapled.
**Quizzes and Exams.** The first quiz is on the knowledge of STAT 4100. All the midterms and the final exam will be closed-book. The final exam will be comprehensive. Any cell phone is prohibited in the exams. You may need a calculator in the exams.

Students must take exams as scheduled except in cases of officially university-approved absence such as class conflict with official exam time, illness, religious observance, and NCAA athletic competition. Makeup exams are not available for other reasons, including student org field trips, club competitions, job interviews, and personal events. In the case of university-approved absence, the final exam score substitutes for the missing midterm exam score.

**“Incomplete” Grades** A grade of “Incomplete” will only be given under extraordinarily extenuating circumstances that prevent the student from completing the course requirements. Having a failing grade in the course is not an extraordinarily extenuating circumstance.

**Dept. of Statistics and Actuarial Science** 241 SH, [http://www.stat.uiowa.edu](http://www.stat.uiowa.edu)
Prof. Lang, DEO, 335-0712, joseph-lang@uiowa.edu

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**College of Liberal Arts and Sciences: Policies and Procedures**

**Administrative Home.** The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Student Academic Handbook.

**Electronic Communication.** University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences. (Operations Manual, III.15.2. Scroll down to k.11.)

**Accommodations for Disabilities.** A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor during the first week to make particular arrangements. See [www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/) for more information.

**Academic Fraud.** Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Academic Fraud section of the Student Academic Handbook.

**CLAS Final Examination Policies.** Final exams may be offered only during finals week. No exams of any kind are allowed during the last week of classes. Students should not ask their
instructor to reschedule a final exam since the College does not permit rescheduling of a final exam once the semester has begun. Questions should be addressed to the Associate Dean for Undergraduate Programs and Curriculum.

**Making a Suggestion or a Complaint.** Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

**Understanding Sexual Harassment.** Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

**Reacting Safely to Severe Weather.** In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Public Safety web site.