Math 507/407
Course Information and Policies

Prerequisite: MATH 317; or MATH 207 and experience writing proofs.

Course website:
https://orion.math.iastate.edu/lhogben/math507.html and CyBox

Text:
Lecture notes and other supplementary material that will be posted in CyBox.
Each student should also have some undergraduate linear algebra text.

Professor: Leslie Hogben
E-mail: hogben@aimath.org, hogben@iastate.edu
ISU email is read at least once each business day and should be used for all confidential matters including assignments (note that I have another ISU email, ilas@iastate.edu that should never be used for this class- it is read only by an assistant for ILAS business). AIM email serves as my personal email and is usually read more frequently; it is good for making appointments, etc. You can also send a message to AIM asking me to check ISU email.

Website: http://orion.math.iastate.edu/lhogben/homepage.html
Telephone: 294-8168 (messages may not be received; e-mail or in person is better)
Office: 488 Carver
Office Hours: M 8-8:50 A, W 8:00-8:50A, and by appointment (beginning Aug. 27 and ending Dec. 7)

Teaching Assistant (TA): Carolyn Reinhart
E-mail: Rein196@iastate.edu
Website: https://math.iastate.edu/directory/carolyn-reinhart/
Office: 489 Carver
Office Hours: Th 9-11A, F 11A-noon (beginning Aug. 27 and ending Dec. 7)

Lectures: MWF 10-10:50A in 128 Carver

Content: See separate syllabus, which will be updated as needed.

507 vs. 407: Lectures are the same. 407 homework assignments are a subset of 507 homework problems; 407 problems de-emphasize the more theoretical aspects. Only 1 project is required for 407 versus 2 projects for 507. Note: Students who have already earned credit for math 510 or 562 will have some alternate 507 homework problems.
Electronics: All audible ringers of cell phones, pagers, etc. must be turned off during class. Any electronic recording (video, photo, etc.) of lectures is prohibited unless written permission is obtained in advance.

Assessment:  
507 grades will be based on a 100-point scale, while 407 grades will be based on a 90-point scale; each will be converted to a percentage at the end of the course
  - 6 graded homework assignments (10 points each for both 407 and 507). Please write clearly, submit 407 and 507 problems separately, and staple each.
  - 2 projects (20 points each) for 507; 1 project (30 points) for 407
    o 1st project (both 407 and 507) is written and involves implementation of linear algebra algorithms in the computer software Sage. Instruction in the use of Sage will be provided.
    o 2nd project (507 only) is a presentation* of a topic of your choice related to the content of 507 (preferably research) in class during Dead Week or Final Exam Week. In addition to the oral presentation, the written materials for your presentation are submitted.  * Undergraduates enrolled in 507 will do a written project only.

Grading:  
Your grade will not be worse than that obtained from the standard 90, 80, 70, 60 scale applied to the above total, and may be better. There is no curve in the traditional sense, in that you are not competing against each other, but against an objective standard – the goal is to have everyone succeed.

Due dates:  
Graded homework and projects have two due dates. The first date is the date it is actually due. The second date is the last date it will be accepted. Due dates are announced on the website.

Dead Week  
The 6th homework assignment is due (first date) before Dead Week but the last date accepted (second date) will be in Dead Week. Each student in 507 makes a presentation (the second project) during Dead Week; during this week the in-class activity is listening to presentations by 507 students, and all students are expected to attend class unless excused by the instructor for an ISU excuse (e.g., illness).

Late homework/projects policy  
All assignments are given at least a week in advance and should be completed by the (first) due date. Late work (after second date) will not be accepted without a documented approved excuse that covers the entire period between the due date and last date accepted (second date). Assignments may be submitted electronically in advance (we send e-receipts if you do not get one inquire- do not assume it was received).
**Collaboration and outside resources:**
You are encouraged to work together, ask Leslie or Carolyn questions, use the texts (lecture notes or additional reference by Zhang) using whatever method helps you learn, except that the following restrictions apply to graded work:

- You should not use outside of class sources (books, internet, people not involved in this course) for any graded work.
- You may discuss graded homework assignments with other students enrolled in this class and/or with Leslie and/or Carolyn, but should not take any notes from these discussions. You must write up your own work and we should not be able to determine with whom you discussed it when we read it. For problems assigned to 407 see Carolyn. For problems assigned to 507 see Leslie.
- Your project(s) should be solely your own work, using no outside sources or other people, except for consultation with Leslie and/or Carolyn.

This class adheres to Mathematics Department and University policies. See [https://dept.math.iastate.edu/syllabus-and-class-policies/](https://dept.math.iastate.edu/syllabus-and-class-policies/)
Disability accommodation policies, academic misconduct polices, etc. are discussed there.

*Any change to these policies will be announced in class, by e-mail, and on the website.*