Summary of the course

The course objectives are to understand the importance of well-designed experiments, and to learn how to analyze the data from the designed experiments.

The topics of this course will include:

1) Analysis of variance (Chapters 7 & 8)
2) Multiple comparisons (Chapter 9)
3) Design concepts for experiments and studies (Chapter 14)
4) Analysis of variance for standard designs (Chapter 15), and if time permits for some fixed-, random, and mixed-effect models (Chapter 17), and for cross over designs (Chapter 18)
5) Analysis of covariance (Chapter 16).

The statistical package used to implement the concepts learned in this course is SAS.

Textbooks and printed resources


Prerequisites

CSC324 for undergraduate students
CSC423 for graduate students

Grading

The 4 homework/programming assignments will be worth 30% of the course grade. There will be a midterm exam given on Thursday, February 12th, that will be worth 30% of the course grade; the midterm is closed book, but you are allowed to bring a single page of notes (front and back) and a calculator. The final exam will be given on Thursday, March 18th, and it is worth 40% of the course grade; the final exam is closed book as well, but you are allowed to
bring two pages of notes (front and back) and a calculator. Make-up exams will not be given. If there is an extreme emergency and you must miss an exam, you must notify me in advance and provide documented evidence of the emergency.

The final grade will be assigned according to the following scale:
A , 95 - 100%
A-, 90 - 94%
B+, 85 - 89%
B , 80 - 84%
B-, 75 - 79%
C+, 70 - 74%
C , 65 - 69%
C-, 60 - 64%
D+, 55 - 59%
D , 50 – 54%
F , <50%

Class policies

There will be 4 assignments, which have to be submitted at the beginning of class of their due date. Late assignments will be accepted up to one lecture later than the assigned due date with a 15% penalty - this penalty will be assessed in full to assignments turned in from the end of class on the day that the assignment is due up until the beginning of next lecture. No assignments will be accepted beyond the beginning of class one lecture beyond the due date. All assignments must be either typed or written in non-erasable ink. If your assignment is hand-written make sure your handwriting is legible. If I can’t read what you have written, you will receive a zero for the corresponding assignment.

You can submit the assignment in hard copy or through the distance learning web site; grades will be returned through the distance learning web site as well. If submitting a hard copy, always include at the top of the page your last name, class number and section, and assignment number. Please staple all pages together.

Attendance is not mandatory. However, students are responsible for anything that transpires during a class. Lecture notes are available and they cover the material required for this class; you should be aware that the material discussed in class may be covered in more detail than the lecture notes. Also, problems may be discussed in class that are not posted.

My office hours are as follows: Thursday: 4:30 - 5:30pm, 9:00 - 9:30pm.

Regarding email communication: I will reply to email messages by one business day after the day I receive and read them; therefore questions that are only received by me on an
assignment’s due date (or late the night before) are not guaranteed replies before the assignment is due. Please plan accordingly and begin the assignments early enough to ask questions and receive answers. Also, please do not email me your programs unless I specifically request it.

**Students in the distance learning section** of the course are expected to take the midterm exam and the final exam at the same time as the on-campus section of the course. If there is not sufficient space in the regular classroom to accommodate all students, another location will be provided for distance learning students. Distance learning students who do not reside in the Chicago area must make arrangements to have their exams proctored at a testing site, and information about arranging the exam will be posted to the announcements during the 4th week of the quarter. Distance learning students are subject to the same assignment deadlines as the students in the regular section of the course.

Course Web site

The course home-page will serve as the central information repository for the course. A link to the Web page for this course is found on the CTI Course Online page. To log onto the CTI COL page visit [http://dlweb.cti.depaul.edu/](http://dlweb.cti.depaul.edu/). Assignments, lecture notes, study guides for exams, and other course materials will be available only through the COL site. There is also a discussion forum available on the site that you are encouraged to use.

**School policies:**

**Online Instructor Evaluation**

Course and instructor evaluations are critical for maintaining and improving course quality. To make evaluations as meaningful as possible, we need 100% student participation. Therefore, participation in the School’s web-based academic administration initiative during the eighth and ninth week of this course is a requirement of this course. Failure to participate in this process will result in a grade of incomplete for the course. This incomplete will be automatically removed within seven weeks after the end of the course and replaced by the grade you would have received if you had fulfilled this requirement.

**Email**

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at [http://campusconnect.depaul.edu/](http://campusconnect.depaul.edu/) is correct.

**Academic Integrity Policy**

This course will be subject to the faculty council rules on the academic integrity policy [(30k DOC)](http://campusconnect.depaul.edu/).

**Plagiarism**
The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

Incomplete

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the School of Computer Science, Telecommunications and Information Systems. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.