

# CSC324/CSC423: Data Analysis and Regression

**Session:** Fall  
5:45-9:00, 9/12 – 11/21  
Class: CDM 226  
Office: CDM 837

**Instructor:** Jonathan F. Gemmell  
Email: jonathan.gemmell@gmail.com  
Cell Phone: (312) 810-3167  
Office Hours: M/W: 1:00-2:30pm

**Please email ahead of time**

**Course Description:** Multiple regression and correlation, residual analysis, analysis of variance, and robustness -- These topics will be studied from a data analytic perspective, supported by an investigation of available statistical software.

**Prerequisites:** IT403 or IT 223. Students are expected to understand basic mathematical notation and be familiar with college algebra concepts.

**CSC 324 versus CSC 423:** Undergraduates and graduates have the same schedule and assignments with the exception that undergraduates will have fewer requirements on the project and exams.

**Course Management System:** DePaul University's Desire2Learn system (d2l.depaul.edu).

**News Widget:** The primary form of communication for this class will be the news widget on the D2L. Please make sure you subscribe to the widget and that DePaul has your correct email.

**Forums:** The class forum is the preferred place to ask questions about the class. If you have questions about a quiz question, the exams or lecture notes, please post them there. I read these frequently. All students should subscribe to the forums so that you receive email updates.

**Text book:** Mendenhall and Sincich, Second Course in Regression Analysis, 7th Edition, Prentice Hall/Pearson, 2012. (Please wait to buy the book until after the first class.)

**Software:** The statistical packages used in this course are R and SAS. They are available in all DePaul labs. You can also access SAS remotely by using our CDM terminals (suitable for fast connections). More information about the software will be posted on the course website.

<b>Grades:</b>	Readings:	10%	<b>Final Grades:</b>	A:	90% - 100%
	Exam Preps:	10%		B:	80% - 90%
	Tutorials:	10%		C:	70% - 80%
	Project:	40%		D:	60% - 70%
	Final Exam:	30%		F:	less than 60%

- Pluses and minuses are given for the upper and lower 3% in a letter's range. There is no A+.

- You may not pass the class if you do not receive a passing grade on the final exam and the final report.

**Class Contract:** All students must complete the class contract. It is meant to ensure that you have read the syllabus and understand the requirements for the course.

**Readings:** There are 10 assigned readings throughout the quarter. Generally, readings are due every week before class. Readings are drawn from academic journals to the popular press, from theoretical concepts to practical applications and from interesting recent findings to important historical results.

When grading the paper reviews, I expect complete well thought out arguments and conclusions. Egregious misspellings, sentence fragments or copy/pasted text from the article will result in poor scores. Plagiarism in any form will not be tolerated. I expect each student to work independently.

**Exam Preps:** There are 10 exam preps. Preps may be taken as many as 10 times and only the highest grade is recorded. Preps are taken online through the D2L. They are due at 5:45 on the day of the class in which they will be reviewed. There will never be an extension for the exam preps.

The purpose of the online preps is not to test your knowledge. You may (and are encouraged) to work through the problems with your fellow classmates, seek out the help of tutors, ask questions on the forums or even offer potential solutions on the forums.

The purpose of the exam preps is to prepare you for the exams (which will test your knowledge). The questions are very (VERY!) indicative to what will be on the exam. Thus, when taking a prep, you should endeavor to learn the underlying material and not simply get the right answers in order to rack up points.

**Tutorials:** There are 10 tutorials. The tutorials are meant to give specific examples on data mining in R and experience working with real datasets. As with the exam preps, students are encouraged to work together on the tutorials.

The tutorials may be taken as many as 10 times and only the highest grade is recorded. The tutorials are taken online through the D2L. They are due at 5:45 on the day of the class in which they will be reviewed. There will never be an extension for the tutorials.

**Project:** The class project is a significant part of the class and thus requires a significant amount of effort. Students will work in groups of 3-5 students. Weekly milestones are meant to keep you on pace. The project concludes with a 20-page report and a presentation. Please see the project description on the D2L.

**Exams:** The final exam is given during week 11; please see the calendar. The exam may not be rescheduled except under extreme extenuating circumstances. Exams are closed-book and closed -notes.

**Proctored Exams:** DL students may take the exams 1) in class, 2) on campus in the DL office or 3) with a proctor. DL students must take the exam in the allotted window. Exams may not be rescheduled except under extreme extenuating circumstances. Registration begins on the D2L by using the "Proctored Exam" tab. Please see: <http://www.cdm.depaul.edu/onlinelearning/Pages/FAQ.aspx#exams>

**Attendance:** Attendance is not required. However, students are responsible for all material and announcements presented in class. DL students are expected to watch the lectures online.

**Online Teaching Evaluation:** Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in CampusConnect.

**Academic Integrity Policy:** This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>

**Plagiarism:** The university and school policy on plagiarism can be summarized as follows: Students in this course 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 any 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 College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

**Resources for Students with Disabilities:** Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at:

Student Center, LPC, Suite #370

Phone number: (773)325.1677

Fax: (773)325.3720

TTY: (773)325.7296