

Syllabus for CSC374 Computer Systems I

Winter 2015

Glenn Lancaster

Overview

Application programs rely on an underlying operating system for execution. System programs are applications that rely on the operating system further by treating it as an application programmer interface. Many operating system functions are available to application programmers and are referred to as "system calls". These system calls include creating and managing processes and concurrency control. This course introduces these topics and implements three significant system application projects.

Instructor Information

- Instructor Dr. Glenn Lancaster
- Loop Office 705, CDM Building 243 South Wabash Ave
- Email glancast@cs.depaul.edu
- Instructor's Homepage

<http://condor.depaul.edu/glancast>

- Classroom 1217 Lewis; TTh 10:10 - 11:40
- Course's Homepage

<http://condor.depaul.edu/glancast/374class/.rdmeframe.html>
(for lectures slides, assignments, reading schedules, examples, resources)

- Video Recordings, Quizzes, Grades Homepage

<http://d2l.depaul.edu>
(for grades and video recordings)

- Office Hours : http://my.cdm.depaul.edu/people/facultyInfo_mycti.asp?id=561

Prerequisites

If you are not sure that you have satisfied the prerequisites, speak to the instructor before the second lecture.

Prerequisite Courses

Computer Systems I (CSC373)

Prerequisite Skills

Integrated Development Environment (IDE) support is unavailable for many tools, so you should be familiar with use of the command line, such as one of:

- Command Prompt (or Powershell) on Windows
- a shell on Linux or OS X such as bash or zsh

Textbooks

There are two textbooks. The first is essential and the course will follow the text closely.

The second text is a compact, but complete reference to the features of the C programming language that will be necessary for all three course labs.

- Computer Systems: A Programmer's Perspective, 2nd edition, by Bryant & O'Hallaron

Prentice Hall/Pearson, 2011. ISBN: 978-0136108047

- The C Programming Language, 2nd edition by Kernighan & Ritchie.

Prentice Hall/Pearson, 1988. ISBN: 978-0131103627

Assessment

The course grade will be based on:

Quizzes	8%
Lab1	15%
Lab2	15%
Lab3	10%
Midterm Exam	22%
Final Exam	30%

The quizzes and exams are multiple choice.

The final exam will test the material covered during the whole term.

Policies I

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L or COLWeb, and sent via email.

Attendance

- Students are expected to either attend class or watch the online recording within 72 hours of its publication online.
- Online Learning students must ensure that they can take the exams within the window specified on COL before the drop date. Please register for the exam as soon as possible.
- Reading the lecture notes is not a substitute for attending or viewing the recorded lectures and reading the assigned textbook selections.

Homework

1. Labs assignments are challenging. Each assignment will have a due date intended to keep you on schedule and a hard due date. Lab assignments are not accepted for credit after the hard due date.
2. Lab assignments are expected to be developed incrementally using git, the distributed version control system. This will be clear from multiple commits.
3. Submitted work must be worked on individually unless otherwise specified. For the lab assignments, you may either work alone or form a group of 2 with the instructor's permission. You must not use or look at anyone else's solution, and you must clearly acknowledge any code that you obtain from other sources (such as books, magazines, or the Internet). If you are in any doubt, contact the instructor well before the submission date for advice. You may use as much code as you like (without acknowledgement) from the examples discussed in class or the assigned textbook for the class. Plagiarism will result in penalties up to and including failing the course.
4. For most lectures an online quiz (through d2l) consisting of 3 or 4 questions will be assigned. Three attempts are allowed for each set of quizzes with the highest score kept as the quiz grade.

Expectations

1. Students are expected to keep up with the reading assignments.
2. Students should experiment on their own with the textbook and lecture examples. Similarly, students should explore the textbook practice problems and material not covered in class.
3. Students are expected to complete the online quiz questions within 3 days of attending or viewing the associated lecture.

Policies II

Retro-Active Withdrawal

CDM understands certain extenuating circumstances can hinder one's ability for academic success and completion of course work. Please see [http://www.cdm.depaul.edu/Current Students/Pages/Enrollment-Policies.aspx](http://www.cdm.depaul.edu/Current%20Students/Pages/Enrollment-Policies.aspx) for additional information.

Academic Integrity and Plagiarism

This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. If you have any questions be sure to consult with your professor.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incompletes can be found at: <http://cdm.depaul.edu/enrollment>.

Incomplete Grades

An incomplete grade is defined in the Student Handbook as follows (note that the policy in the undergraduate student handbook applies to both undergraduate and graduate students): A temporary grade indicating that the student has a satisfactory record in work completed, but for unusual or unforeseeable circumstances not encountered by other students in the class and acceptable to the instructor is prevented from completing the course requirements by the end of the term. Please see [http://www.cdm.depaul.edu/Current Students/Pages/Grading-Policies.aspx](http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx) for additional information.

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: <mailto:csd@depaul.edu>

Dean of Students' Office

The Dean of Students' Office (DOS) helps students navigate the college experience, particularly during difficulty situations such as personal, financial, medical, and/or family crises. For a list of support services and advocacy information, please visit <http://studentaffairs.depaul.edu/dos/>.

Online Course Evaluations

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. 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.