

Spring 2010

# CEG 433-01: Operating Systems

Sarah Gothard

*Wright State University - Main Campus*

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## Syllabus

### Course Information

Course title: Operating Systems

Course number: CEG 433

Course discipline: Computer Engineering

Course description: Overview of operating systems internals. File-system usage and design, process usage and control, virtual memory, multi-user systems, access control. Course projects use C++ language.

4 Credit Hours. Three hours lecture, two hours lab.

Course date: Monday, March 29, 2010 through Friday, June 11, 2010

Location: Medical Sciences 145

Meeting day(s): Mondays, Wednesdays

Meeting time(s): 4:10 p.m. - 5:25 p.m.

Prerequisite(s):

- Undergraduate level CEG 320 (Minimum Grade of D)
- Undergraduate level CS 400 (Minimum Grade of D)

### Instructor Information

Name: Dr. Sarah Gothard

Email: sarah.gothard@wright.edu

Office location: Russ Engineering Center 437

Office hours: 10:00 a.m. - 1:15 p.m MW  
2:45 p.m - 3:45 p.m MW  
12:30 p.m. - 1:45 p.m. TR

Phone: 937-321-5167 (during office hours or emergencies only)

Biography: Dr. Gothard received her Ph.D. in Computer Science from Clemson University in 2007.

Dr. Gothard taught the following lecture courses at Clemson University from 2002 to 2008: Computer Science I and II, Algorithms and Data Structures, and Tools and Techniques for Software Development. Courses were taught with various formats as part of her research, including the use of computer graphics in C, C++, and Java.

Dr. Gothard began teaching at WSU Spring 2009 and has taught CS 240 (Computer Programming I), CS 241 (Computer Programming II), CS 242 (Computer Programming III), CS 400 (Data Structures and Algorithms), CEG 233 (Linux and Windows), and CEG 433 (Operating Systems)

### Textbooks

Required reading: *Operating Systems*, Avi Silberschatz, Peter Baer Galvin, and Greg Gagne, John Wiley & Sons, Inc. or Addison-Wesley, 2000 or later

## Course Requirements

Introduction: There will be four (4) programming assignments, a midterm exam, a final exam, and possibly a couple homework assignments. If no homework is assigned, then the homework points will be included in the programming assignment points.

Requirements: **Language**

C++ in Unix

### Points

- Programming assignments: 40%
- Homework: 10%
- Midterm Exam: 25%
- Final Exam: 25%

### Grading

A: 90-100  
B: 80-89  
C: 70-79  
D: 60-69  
F: 0-59

## Policies

Introduction: **Deadlines**

- Work is due at the specified deadline. Late work will not be accepted. If submitting the assignment appears to fail, email a copy of the assignment to me before the deadline.
- If a project is only partially completed, you should submit what you have before the deadline.

### Missing Grades

- If something is wrong with your grade on WebCT, it is your responsibility to notify me within a couple weeks of posting.
- If you miss an exam and have good reason, inform me before I cover the solution in the next class.
- If you have an emergency causing you not to complete an assignment, submit what you have and contact me about the situation.

### Instructor Late

If the instructor is late for class, students are expected to wait for 15 minutes after the class period starts before leaving.

Additional  
information:

## Academic Integrity

### General

- Be honest at all times.
- Act fairly towards others. For example, do not seek an unfair advantage over others by cheating with or by looking at other individual's work during examinations or laboratory assignments.
- Passing other people's work off as your own is unethical in any setting. In an academic setting, it is a breach of the university's policies.
- *All* cases of plagiarism, cheating, or academic dishonesty will be reported to the Community Standards and Student Conduct Office. Penalties will be handled on a case by case basis, ranging from a zero on the assignment for all involved students to a failing grade in the course for all involved students.
- Those who are complicit in academic misconduct will receive the same penalties as the primary offenders.

### What Is Allowed

- Students are allowed to discuss the general requirements of lab assignments to make certain that they understand the problem and its goal.
- A student is allowed to ask another student (who has submitted the assignment) for help with a syntax error or other minor problem that does not require extensive exploration of the solution. (Students are never to show other students their solutions until after the submission deadline is passed.)
- Students may receive direction from their TA's, the CS help room, the textbook, the provided materials, and the instructor without documenting that the help took place.
- Any outside help should be documented in the comments for the assignment. This will allow the instructor to comment on and correct the degree of collaboration if necessary. Unacknowledged collaboration will be considered a violation of course policy.

### What Is Not Allowed

- Students who have not submitted their assignments may not look at other students' programs.
- Students who have looked at other students' code may not re-submit unless they first consult the instructor.
- Students may not look at any other solutions to any assignments that can still be turned in.
- Students may not use code from other classes or other quarters without first consulting the instructor.
- Doing the lab work on an operating system other than the OS explicitly named constitutes cheating.

### Special Team Rules

- If a project is to be done as a team, **you may not discuss the project with anyone else in the class other than your project partners.**