

Organization of Programming Languages

CS 230/Zelle

Winter 2018

Instructor:

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Class Meetings: MWF 10:45, SC 345

Office Hours: M–F: 9:30 and (almost) whenever you find me there.

Course Objectives:

This course will cover the fundamental topics in programming language specification, design and implementation. A student successfully completing this class will:

1. Understand the conceptual tools and criteria used to describe and evaluate programming languages.
2. Understand the underlying issues and tradeoffs in language design and implementation, especially the run-time mechanisms necessary to support common features of modern programming languages.
3. Be able to critically evaluate language design choices in an organized and effective manner and determine the appropriateness of a language for particular programming needs.
4. Gain significant programming experience in at least one unconventional (non-imperative) programming language.

Text: *Modern Programming Languages 2nd Ed*, Adam Brooks Webber (Franklin, Beedle & Associates 2011)

Course Outline:

We will be covering the text, chapters 1-23.

Credit Hour Policy:

This class is 1 course credit. You may expect to spend at least two hours of time outside of class, completing reading, homework, programming assignments, for every hour you spend in class.

Evaluation:

Exams:

Hour Exam 1: 20% (2/9)
Hour Exam 2: 20% (3/16)
Final Exam: 20% (4/17)

Other:

Projects and HW: 20%
Case Study Paper: 20%

Grading Scale:

Grades are assigned based on the (weighted) percentage of total points.

Score	Grade
90–100	A
80–89.5	B
70–79.5	C
60–69.5	D
< 60	oops

I may move the exact boundaries, but they will not be raised. Anyone with 90% of total points will receive some flavor of “A.”

Class Format:

The class will be a mixture of discussion and problem solving. We will be covering a chapter of the text each class day. You are expected to come to class having studied the day’s chapter and be ready to discuss it and work problems in class. Occasional homework problem and project assignments will also be given.

Attendance:

Regular attendance is expected. Although not part of the grade *per se*, excessive absences will definitely affect a student’s performance in the class. Office hours are not tutoring sessions for late risers.

Honesty:

You are reminded of your obligation to the Wartburg Honor Code. Absolutely no cheating will be tolerated. Of course, discussion of ideas is healthy and essential for education. Feel free to discuss approaches to assignments and to help fellow students with problems in their programs. Be sure, however, that the assignments you turn in represent your own work. There is an important difference between shared ideas and wholesale copying.

Late Work:

Keeping up with projects is critical to successfully completing the class. Late work will receive only summary grading, and can earn a maximum of 75% of the original assignment value.

Late Exams:

Late exams will be given only under exceptional circumstances. Except for confirmed medical emergency, arrangements must be made prior to the actual exam date.

Students Needing Accommodations:

Qualified students with disabilities are protected from unlawful discrimination by Section 504 of the Rehabilitation Act of 1973 (Section 504) and Title II of the Americans with Disabilities Act of 1990 (ADA), as amended. Students requesting academic accommodations due to disabilities must arrange for such accommodations by contacting Derek Solheim, Pathways Center Director. He can be reached at the Pathways Center, (319) 352-8425, or by e-mail derek.solheim@wartburg.edu. Presenting documentation of a disability early is helpful and often necessary to secure needed materials in a timely way. Accommodations should be requested PRIOR to affected assignment due dates. Accommodations will not be provided retroactively.

Sexual Misconduct and Discrimination:

Wartburg College is committed to providing a learning, working, and living environment free from all forms of sexual misconduct including, but not limited to, sex-based harassment, non-consensual sex acts, sexual exploitation, relationship violence, and stalking. Wartburg College considers sex discrimination in all forms to be a serious offense and it will not be tolerated.

The Wartburg College's Title IX, Sexual Misconduct and Discrimination Policy, following national guidance from the Office of Civil Rights, requires that faculty follow Wartburg's policy as a "mandatory reporter" of any personal disclosure of sexual harassment, sexual misconduct, and/or violence related experiences or incidents shared with the faculty member in person, via email, and/or in classroom settings. These disclosures include but are not limited to reports of personal relationship abuse, relational/domestic violence, and stalking. While faculty are often able to help students locate appropriate channels of assistance on campus, disclosure by the student to the faculty member requires that the faculty member inform appropriate Wartburg personnel to help ensure that the student's safety and welfare is being addressed, even if the student requests that the disclosure not be shared. For confidential counseling support and assistance on campus, please contact:

- Wartburg College Counseling Services, 319-352-8596
- Wartburg College Campus Pastors, 319-352-8217

For private, but not confidential, resources on campus, please contact:

- John Myers, Director of Campus Security, 319-352-8372
- Jamie Hollaway, Title IX Coordinator, 319-352-8418
- Cassie Hales, Director of Residential Life, 319-352-8260
- Dr. Dan Kittle, VP of Student Life, 319-352-8745
- Campus Security officers and residence hall directors

General Caveat:

The policies presented here should be taken as general guidelines and are subject to change at the discretion of the instructor with due notice and consideration. "If any point in dispute is not covered by the Rules, the decision shall be made in accordance with equity."(Rule1-4 of the USGA Rules of Golf).