CS 331 Spring 2019 > Syllabus

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COURSE: CS 331 Programming Languages. 3 credits.

Time & place: 2:15–3:15 pm MWF, 535 Duckering.

Prerequisites: CS 311.

INSTRUCTOR: Glenn G. Chappell, Dept. of Computer Science.

Office: 539 Duckering.

Office hours: 1–2 pm MWF, 3:30–5 pm TTh on spring 2019 class days,

or by appointment.

Office phone: [474-]5736. E-mail is preferred to phone calls.

E-mail: ggchappell@alaska.edu

Paper mailbox: Inside the Computer Science Department office, 527 Duckering.

TEXT: There is no required text.

Readings will be provided by the instructor.

WEB PAGE: http://www.cs.uaf.edu/~chappell/class/2019_spr/cs331

Blackboard will be used only for homework submission and online quizzes.

Course Topics & Goals

CS 331 is a survey of the field of computer programming languages. We will look at how programming languages are specified and how such specifications are used. We will examine programming language features, comparing and contrasting their appearance in various programming languages. We will take a close look at some programming languages that differ significantly from those covered in most CS courses.

After taking this class, students should:

- Understand the concepts of syntax and semantics, and how syntax can be specified.
- Understand, and have experience implementing, basic lexical analysis, parsing, and interpretation.
- Understand the various kinds of programming languages and the primary ways in which they differ.
- Understand standard programming language features and the forms these take in different programming languages.
- Be familiar with the impact (local, global, etc.) that choice of programming language has on programmers and users.
- Have a basic programming proficiency in multiple significantly different programming languages.

Important Dates

Also see the Semester Plan, on the class webpage.

Mon, Jan 21 No class (AK Civil Rights Day)

Fri, Mar 8 In-class Midterm Exam Mon, Mar 11-Fri, Mar 15 No class (Spring Break)

Fri, Mar 29 Last day to withdraw ("W" on transcript)

Mon, Apr 29 Last regular class meeting

Thu, May 2 Final Exam 1–3 pm in the classroom

Procedures

Class meetings—Lecture-discussion format.

Quizzes—Online quizzes will be given every week or two. These are to be completed outside of class. Quizzes will always be announced in advance. No make-up quizzes will be given.

Homework—Homework will be assigned every week or two, and will consist of both programming and answering questions. Homework turned in late will generally be penalized. Homework submitted more than two weeks after the assignment due date will generally not be graded.

To do the homework, students must obtain access to recent versions of the following programming languages: Lua (version 5.1 or later), Haskell (get *The Haskell Platform*), Forth (GNU version: *Gforth*), Scheme (get *DrRacket*), and Prolog (GNU version: *gprolog*). All of these are available in the Duckering 536 lab.

Exams—Two exams will be given: a Midterm and a comprehensive Final. See *Important Dates*.

Grades

Course grades will be based on points earned, using a 90-80-70-60 scale. The +/- grading system will not be used. Point totals will be as follows.

Assignments (total)	290 pts
Quizzes (total)	35 pts*
Midterm Exam	75 pts
Final Exam	100 pts
TOTAL	500 pts

^{*}At the end of the semester, the total points possible on quizzes may differ from this; quiz scores will be scaled accordingly, so that the total is as stated above.

Policies

Students are expected to be at every class meeting on time, and are responsible for all class content, whether present or not. If absence is necessary, work (other than quizzes) may be made up only if the instructor is notified as soon as possible; in particular, absences due to scheduled events must be arranged ahead of time.

Students who fail to attend the first class meeting after registering for the class, or who miss four consecutive class meetings, may be dropped/withdrawn without warning, unless prior arrangements are made with the instructor.

Academic dishonesty will not be tolerated, and will be dealt with according to UA procedures.

Students pay the CS lab fee. Payment allows access to the CS labs.

UAF academic policies: http://catalog.uaf.edu/academics-regulations CS Department policies: http://www.cs.uaf.edu/departmental-policies