

# CS320/520N: Organization of Programming Languages

## Winter 2010

**Class Meetings:** Mon, Tue, Thu, Fri 9:10am–10:00am, ARC 315

**Instructor:** Razvan Bunescu

**Office:** Stocker 337

**Office Hours:** Mon, Thu 10am–12pm, or by email appointment

**Email:** bunescu @ ohio edu

**Class Website:** <http://ace.cs.ohio.edu/~razvan/courses/cs320>

**Prerequisites:**

- CS240B (Introduction to Computer Science)
- CS300 (Discrete Structures)

**Textbook:**

*Concepts of Programming Languages (9th edition)*

by Robert W. Sebesta. Addison-Wesley, 2009

**Recommended Supplementary Text:**

*Compilers: Principles, Techniques, & Tools (2nd edition)*

by Aho, Lam, Sethi, and Ullman. Addison-Wesley, 2007

**Course Description:**

This course introduces the fundamental syntactic and semantic concepts underlying modern programming languages. The imperative, object-oriented, functional and logic programming paradigms will be discussed, with illustrative examples in C/C++, Java, Ada, Scheme, Python and Prolog. Major topics include:

- Context Free Grammars, Lexical Analysis and Syntactic Parsing.
- Bindings, Type Checking and Scopes.
- Expressions, Control Structures and Functions.

**Grading for CS320:**

- 30%: Assignments
- 40%: 2 Midterm Exams
- 30%: Final Exam

**Grading for CS520N:**

- 20%: Assignments
- 10%: Advanced Assignment
- 40%: 2 Midterm Exams
- 30%: Final Exam

**Exam Dates:**

- Midterm:** Friday, Jan 29, in class (tentative)
- Midterm:** Friday, Feb 19, in class (tentative)
- Final:** Thursday, Mar 18, 8:00am–10:00am

**Other Important Dates:**

- Monday, Jan 18: Martin Luther King, Jr. Day holiday, no class.
- Tuesday, Jan 19: Last day to add class.
- Monday, Feb 8: Last day to drop class.
- Friday, Mar 12: Last day of this class.

**Course and Attendance policies:**

Late assignments: All homework assignments are due before the class. No late submissions will be accepted without prior approval.

Attendance: It is in your best interest to attend all the lectures. Some of the material will not be found in the textbook. Extra credit will be awarded for class activity. Also, be sure to check the course website for important announcements on a regular basis.

**Academic Dishonesty Policy:**

All work must be the student's own. All external references used in reports must be properly cited. No credit will be given for duplicate or plagiarized work. Stronger measures, within the guidelines of the Student Handbook, may be taken when conditions warrant. The OU Student Code of Conduct Policy is available online at [http://www.ohio.edu/judiciaries/conduct\\_policy.cfm](http://www.ohio.edu/judiciaries/conduct_policy.cfm).

**Other Policies:**

Be sure to notify the professor of any exam conflicts or other extenuating circumstances in advance. No missed exams will be made up without prior approval.