

# CSCI 565 -- Tentative Syllabus

## Fall 2005

(The instructors reserve the right to adjust this syllabus when necessary.)

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### Title:

Programming Languages -- CSCI 565 -- Class Number 2728

### Text Book:

Advanced Programming Language Design -- Raphael Finkel -- Addison-Wesley

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### Reference Books:

- Introduction to the Theory of Programming Languages -- Bertrand Meyer
- The Study of Programming Languages -- Ryan Stansifer
- The Anatomy of Programming Languages -- Fischer and Grodzinsky
- Concepts of Programming Languages -- Sebesta
- Programming Languages -- Concepts and Constructs -- Sethi
- Foundations of Programming Languages -- Roosta
- Additional reading material will be assigned during the class.

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### Administrative Details:

- **Instructor:** Dr. Rajeev Raje [rraje@cs.iupui.edu](mailto:rraje@cs.iupui.edu)
- **Class Timings:** MW 4.00 pm -- 5.15 pm
- **Room:** SL 206
- **Office:** SL 280 H
- **Office Hours:** MW 3.00 pm -- 4.00 pm
- **Class Page:** <http://www.cs.iupui.edu/~rraje/html/565.html>
- **Telephone:** 317-274-5174

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**Class Mailing List:** CS565 [cs565@cs.iupui.edu](mailto:cs565@cs.iupui.edu) To enroll in the class mailing list, please send a mail to [majordomo@cs.iupui.edu](mailto:majordomo@cs.iupui.edu) with *subscribe cs565* as the message.

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### Course Description:

- Introduction and History
- Syntax and Semantics
- Control Structures
- Types
- Logic Programming

- Functional Programming and Lambda calculus
  - Concurrent and Distributed Programming
  - Dataflow
  - Object-oriented Programming
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### Grading Information:

- First Test: 20% -- September 19, 2005
  - Second Test: 25% -- October 19, 2005
  - Project: 20% -- December 7, 2005
  - Final: 35% -- December 19, 2005
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### Notes:

- Assignments will be handed out periodically during the semester. These are not to be turned in and will not have any weight in deciding the grade. However, students are encouraged to solve all the problems in the assignments. Solutions to each assignment set will be posted after the due date.
- The final test will be comprehensive and will act as the **qualifying examination** for the PhD students.