

Principles of Programming Languages

**CMSC 331 section 0101
Fall 2008**

Overview

- Details
- Goals
- Approach
- Expectations
- Infrastructure
- Help
- Academic Standards
- Questions

Details

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Goals

- Cover basic concepts underlying programming languages (syntax, semantics, families, ...)
- Study Scheme as an example of a functional programming language
- Study Python as an example of a modern scripting language
- Implement an interpreter for Scheme in Python
- Touch on other languages and concepts along the way

Approach

- No textbook!
 - Assigned papers to read and online exercises
- Learn by doing: frequent homework (55%)
 - 7-10 assignments
- Exams: midterm (15%), final (25%)
- Discussions in class and online (5%)
- Use OIT's computers or, better yet, your own

Expectations

- Do the assignments
 - On your own
- Hand them in on time
 - It's better to hand it in late than not at all
- Ask questions
 - And/or share thoughts
- Don't be afraid to seek help
- Take pride in your code

Infrastructure

- Blackboard
- Website
- Papers and tutorials to read
- If you are using your own computer you'll probably want to download and install
 - PLC Scheme
 - Python

Need Help?

- We are here to help you learn
- Recommended procedure
 - Think
 - Check the online discussion forum
 - Ask Google
 - Ask the TA (email, office hours)
 - Ask the instructor (email, office hours)

Academic Integrity

All members of the UMBC community are expected to make a commitment to academic honesty in their own actions and with others. Academic misconduct could result in disciplinary action that may include suspension or dismissal. Here are examples of academic misconduct that are not tolerated at UMBC.

- **Cheating:** Knowingly using or attempting to use unauthorized material, information, or study aids in any academic exercise
- **Fabrication:** Intentional and unauthorized falsification or invention of any information or citation in an academic exercise
- **Facilitating Academic Dishonesty:** Intentionally or knowingly helping or attempting to help another commit an act of academic dishonesty
- **Plagiarism:** Knowingly representing the words or ideas of another as one's own in any academic exercise, including works of art and computer-generated information/images

Questions

- These are some questions for us to think about throughout the course
- At best they have subjective answers

Questions

- How important is programming to CS?
- How important is the PL choice to programming?
- What's the best PL? How many should I know?
- Why are new PLs constantly being invented?
Why should I learn any of them?
- How will we program quantum computers?
- How long does it take to master a PL?
- What PLs should I know to get the best jobs?