Daily preparation guide
Study the material listed in the preparation section prior to attending class that day. Try to formulate precise questions concerning the parts you don’t understand or the importance of the material.

Thursday, August 18
Introduction:
- Classes begin
- Review of syllabus
- Review of order notation
- Review of logarithmic identities
- Review of sorting algorithms

Tuesday, August 23
Preparation:
- Section 1.1, The Elements of Programming
- Example questions: http://beastie.cs.ua.edu/proglan/1-1.html
- Example prerequisite material questions: http://beastie.cs.ua.edu/concepts/cs/ds/

Thursday, August 25
Prerequisite material

Tuesday, August 30
Prerequisite exam

Thursday, September 1
Preparation:
- Section 1.2, Procedures and the Processes They Generate
- Example questions: http://beastie.cs.ua.edu/proglan/1-2.html

Tuesday, September 6
Preparation:
- Section 1.3, Formulating Abstractions with Higher-Order Procedures
- Example questions: http://beastie.cs.ua.edu/proglan/1-3.html

Thursday, September 8
Preparation:
- Grammars http://beastie.cs.ua.edu/proglan/readings/grammars.html

Friday, September 9
Preliminary assessment of programming assignment #1 due
Tuesday, September 13
Preparation:
• Lexical Analysis, http://beastie.cs.ua.edu/proglan/readings/lexing.html

Thursday, September 15
Preparation:

Friday, September 16
Programming assignment #1 due

Tuesday, September 20
Preparation:
• Section 3.2.1 The Rules for Evaluation
• Section 3.2.2 Applying Simple Procedures
• Section 3.2.3 Frames as the Repository of Local State
• Section 3.2.4 Internal Definitions

Thursday, September 22
Preparation:
• Section 2.1, Data Abstraction
  • Example questions: http://beastie.cs.ua.edu/proglan/2-1.html

Tuesday, September 27
Preparation:
• Section 2.2.1, Sequences
• Section 2.2.2, Hierarchical Structures
  • Example questions: http://beastie.cs.ua.edu/proglan/2-2.html
• Section 2.2.3, Convenentional Interfaces
  • Example questions: http://beastie.cs.ua.edu/proglan/2-2.html

Thursday, September 29
Preparation:
• Section 2.3, Symbolic Data
  • Example questions: http://beastie.cs.ua.edu/proglan/2-3.html

Tuesday, October 4
Preparation:
• Section 2.4, Multiple Representations for Abstract Data

Thursday, October 6
Preparation:
• Section 2.5, Systems with Generic Operations

Tuesday, October 11
Mid-term exam, Chapters 1 and 2, Grammars, Lexing, Recognizing, Parsing
Thursday, October 13
Preparation:

Tuesday, October 18
Preparation:

Thursday, October 20
Preparation:
  • Section 3.1.1 Local State Variables

Friday, October 21
Preliminary assessment of programming assignment #2 due

Tuesday, October 25
Preparation:
  • Section 3.1.2 The Benefits of Introducing Assignment

Thursday, October 27
Preparation:
  • Section 3.1.3 The Costs of Introducing Assignment

Friday, October 28
Programming assignment #2 due

Tuesday, November 1
Preparation:
  • Section 3.3.1 Mutable List Structure
  • Section 3.3.2 Representing Queues
  • Section 3.3.3 Representing Tables

Thursday, November 3
Preparation:
  • Section 3.3.5 Propagation of Constraints

Tuesday, November 8
Preparation:
  • Section 3.4.1 The Nature of Time in Concurrent Systems
  • Section 3.4.2 Mechanisms for Controlling Concurrency

Thursday, November 10
Preparation:
  • Section 3.5.1 Streams Are Delayed Lists
  • Section 3.5.2 Infinite Streams

Tuesday, November 15
Preparation:
Thursday, November 17
Preparation:
• Section 3.5.3 Exploiting the Stream Paradigm

Friday, November 18
Preliminary assessment of programming assignment #3 due

Tuesday, November 22
Preparation:
• 3.5.4 Streams and Delayed Evaluation

Thursday, November 24
Preparation:
• Section 3.5.5 Modularity of Functional Programs and Modularity of Objects

Friday, November 25
Programming assignment #3 due

Tuesday, November 29
Dead week

Thursday, December 1
Dead week, last day of class