CS586 High Octane Java -- Bryan Higgs

Spring 2004

Syllabus

Office Hours: M, T, W, 2pm – 5pm
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Brief Course Description:
This course presents advanced Java features, focusing primarily on server-side Java technologies. It starts with a thorough grounding in Exceptions, Input/Output and Streams, and Threads, and then moves on to cover topics that include Serialization, Reflection, Networking, JDBC (Java Database Connectivity), and Java Beans. The course assignments are an integral part of the learning process; students will write non-trivial programs that use these Java features.

Required Text:

Course Objectives:
To familiarize each student with advanced Java features, and to provide significant practice in using them.

Classroom Policies:
Students are expected to attend and participate in all classes. Attendance is taken at the beginning of each class. Notice to the instructor in advance of any anticipated absence is expected whenever possible. It is the student's responsibility to make up any material missed as a result of any absence.

Course Requirements and Grading Policies:
Students will be evaluated based on significant programming assignments and a final examination. All tests/examinations are open book.

Assignments: 90%      Final- 10%

Teaching Strategies:
Lecture format, built around the textbook and course web site with numerous examples chosen to illustrate the concepts. Questions and discussion are strongly encouraged.

Material Covered:

- Java Exceptions
- Input/Output, Files and Streams
- Serialization
- Reflection
- Threads
- Swing and Threads
- Networking
- Remote Objects (optional)
- JDBC
- Java Beans