COSC441 Course Outline

Note: This lecture plan is subject to revision.
Shared Memory Concurrent Programming
Introduction and pitfalls [1]
POSIX threads (C, C++) [4]
• the aim here is to present general issues by means of POSIX threads
Specification and verification (CTL, NuSMV) [1]
Message Passing
Unix message queues, sockets, MPI [1]
Erlang [4]
 the aim here is to present the shared-nothing approach and bring out the relationship between concurrency and distribution by means of Erlang
Failure; the CAP theorem. [1]
Review [1]