

COSC 625 Topics for Finals FALL 2010

From the Buttazzo textbook:

Chapter 1	1-12, 14-18	Definitions
Chapter 2	21-26, 28-31, 32-33, 36	Definitions (including “slack”), constraints
Chapter 3	45- 51, 74, 76-78, 92,107-108	Periodic task scheduling (esp RM, EDF)
Chapter 4	111-115, 118-120, 148	Fixed priority servers
Chapter 7	191-200	Priority inversion, PIP

Other:

Arduino: all the parts necessary for programming the projects:

- ISR
- pins
- setup()
- loop()
- read and write I/O pins
- timer

tinyexec: intimate understanding of how it works

semaphores: what they are and how they work

DFA: state transition diagrams
Task state diagram
DFA → code, code → DFA

Interrupts and interrupt service routines
The machine cycle (fetch - execute)