

**CSCI 234**

*Design of Internet Protocols:  
Template*

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**General Format**

- Closed book
- “test book”
  - Questions
  - Space for answers
- Discussion questions

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**Topics**

- Error detection and correction
- Flow control
- Concurrency
- Protocol verification and validation

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### Error Detection and Correction

- Two different methods of dealing with error
  - What are the significant differences
  - What makes the methods appropriate
- Two different methods of error detection
  - What are the significant differences
  - What makes the methods appropriate
- Two different methods of error correction
  - What are the significant differences
  - What makes the methods appropriate

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### Flow Control

- Why is flow control important
- How is it accomplished

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### Concurrency

- Multitasking
  - What is it
  - When should it be used
  - When should it not be used
- Fundamental tools to allow multitasking
  - Sharing of data
- Fundamental tools to control multitasking
  - Synchronization
  - Processing failure recovery

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### Protocol Verification and Validation

- Protocol
  - Objectives
  - Attributes
- Verification
  - Objective
  - Tools and methods
- Validation
  - Objective
  - Tools and methods

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### Sources

- Notes
- Glossary from web page
- References on web page

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