

Client Server Programming

- Lecturer – Damian Bourke
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- Brightspace presence:
 - All material and assessments will be posted on Brightspace
 - Self-enrol option is enabled:
 - Key word search in Discovery mode: Damian Bourke, CMPU3006, Client Server Programming, TU856 etc.

Class Structure

- Lectures and Labs:
 - 2 hour classes per week (Thursday, 15:00-17:00)
 - 2 hour lab per week (Thursday, 09:00-11:00)
- All lectures and labs will be online:
 - Lectures will be recorded and posted on Brightspace.
 - Labs will be 'live' and will not be recorded.

Course Tasks

- All assessments delivered online:
 - Continuous Assessment (Assignments):
 - Accounts for 40% of the module mark.
 - Two components:
 - Lab assignment (programming)
 - Class Test (theory)
 - Terminal exam
 - Accounts for 60% of the module mark

Client Server Programming

- Course Book:
 - Data and Computer Communications
 - William Stallings
 - Prentice Hall International Edition
 - Data Communications and Networking
 - Forouzan, Behrouz
 - McGraw-Hill International

Course Topics

- Extending Local Area Networks
- Internetworks
 - Routers and Global Addressing
- Protocols and Architectures
 - ISO OSI reference model

Course Topics

- The Client-server model
- The Transport Layer
 - Operational concepts: Services and protocols, Transport addresses and connections etc.
- The Application Layer
 - Common networked applications

Course Topics

- The Berkeley Sockets API
 - The Socket Abstraction: Socket primitives, Addressing, inter-process communications, Iterative and concurrent applications etc.