**CS6504: What is it about?**

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**Goals**

- Introduce research research issues in networking
- Foster the ability to perform independent research

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**Means**

- Traditional textbook model
- Class discussion
- Research Surveys
  - Each week you get 2 papers to survey.
  - A one to two page summary is due the next week.

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**Topics**

- Application Layer: Network applications, protocols, application level framing
- Transport Layer: Service Models, Congestion Control
- Network Layer: Service Models, Routing algorithms, IPv6, Multicast
- Link Layer
- Multimedia Services: Application requirements, traffic models, Quality of Service issues, transport protocols for adaptive and hard real time traffic
- Computer Security

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**Prerequisites**

- CS5516 (Computer Networks)
- Strong programming ability in C
- User-level understanding of the UNIX operating system
- Ability to undertake substantial independent design projects

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**Resources**

- **Required Text:**
- **Recommended Books:**
  - Wright and Stevens, *TCP/IP Illustrated, Vol 1. Addison Wesley*
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