Tutorial 1

ELEC3506/9506 – Communication Networks

- 1. List the layers of the OSI model and the TCP/IP protocol suite (the Internet Model)
- 2. How do the layers of the OSI correlate to the layers of the TCP/IP protocol suite?
- 3. Which layers of the TCP/IP protocol suite are the network support layers and which layers are the user support layers?
- 4. What is data encapsulation (with respect to Questions 1-3)?
- 5. What are the responsibilities of the Data Link layer?
- 6. What is the difference between Network layer and Transport layer delivery?
- 7. If the Data link layer can detect errors between hops, why do you think we need another mechanism at the Transport layer?
- 8. What are the responsibilities of the Network layer?
- 9. What are the responsibilities of the Transport layer?
- 10. What is the difference between a port address, a logical address and a physical address?
- 11. Name some services provided by the Application layer
- 12. What are the advantages of combining Session, Presentation and Application layers of the OSI model to a single layer in the TCP/IP protocol suite?