

# University of Pretoria Yearbook 2016

## Computer networks 332 (COS 332)

**Qualification** Undergraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 18.00

**Programmes** [BIS Multimedia](#)

[BIT Information Technology](#)

[BSc Information Technology Information and Knowledge Systems](#)

[BSc\(Computer Science\) Computer Science](#)

**Prerequisites** COS 216

**Contact time** 2 lectures per week, 1 practical per week

**Language of tuition** English

**Academic organisation** Computer Science

**Period of presentation** Semester 1

### Module content

The objective of this module is to acquaint the student with the terminology of communication systems and to establish a thorough understanding of exactly how data is transferred in such communication networks, as well as applications that can be found in such environments. The study material includes: concepts and terminology, the hierarchy of protocols according to the OSI and TCP/IP models, protocols on the data level, physical level and network level as well as higher level protocols. The practical component of the module involves programming TCP/IP sockets using a high level language. The emphasis throughout is on the technical aspects underlying the operation of networks, rather than the application of networks.

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