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# University of Pretoria Yearbook 2016

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## Computer networks 332 (COS 332)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	18.00
<b>Programmes</b>	<a href="#">BIS Multimedia</a> <a href="#">BIT Information Technology</a> <a href="#">BSc Information Technology Information and Knowledge Systems</a> <a href="#">BSc(Computer Science) Computer Science</a>
<b>Prerequisites</b>	COS 216
<b>Contact time</b>	2 lectures per week, 1 practical per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Computer Science
<b>Period of presentation</b>	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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