List of Undergraduate modules presented by the Department of Information Science

Information Science

Information science 110 (INL 110)
Qualification: Undergraduate
Module content
This module is an introduction to the study field of information science and its various professions. Key concepts that will be discussed include the following: the human as information processor and user; the life-cycle of information in terms of processes, products and role-players; as well as the communication of information. The social-ethical impact of globalisation is included as a key concern, with reference to Africa.
Module credits: 12.00
Programmes:
> BA
> BA Visual Studies
> BIS Information Science
> BIS Multimedia
> BIS Publishing
> BIT Information Systems
> BPolSci Political Studies

Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 120 (INL 120)
Qualification: Undergraduate
Module content
Organisation and representation of information. This module provides the student with an introduction to the basic principles and processes underlying the organisation and representation of information. The process of organising information in documents and on the web, in multimedia formats, by means of document image processing and in databases are dealt with. Themes on the representation of information through the creation of metadata include various general and domain specific metadata schemas such as Dublin Core as a metadata standard for the Web, as well as various other metadata schemas. Practical classes include basic HTML and the design of Web pages incorporating and applying what was covered in theory.
Module credits: 12.00
Programmes
> BA
> BIS Information Science
> BIS Multimedia
> BIT Information Systems
> BPolSci Political Studies

Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: ::Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science 130 (INL 130)
Qualification: Undergraduate
Module content
Personal information management. This module focuses on personal information management within an organisational context. It deals with managing information and knowledge that is peculiar to an individual and which enables him/her to perform his/her job. Topics include: creating an environment in which the individual can manage his/her information and knowledge; the skills needed to be able to manage personal information and knowledge; information overloading which gives rise to personal information and knowledge

management, as well as the manner in which individuals can switch from personal information management to personal knowledge management; personal information and knowledge management as a career.
Module credits: 12.00
Programmes
  BIS Information Science
  BIS Publishing
  BIT Information Systems
  BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 140 (INL 140)
Qualification: Undergraduate
Module content
Information and communication technology. This module offers a brief overview of hardware and software, telecommunications technology, LANs, WANs and intranets, the information highway, the internet and the World Wide Web, computer ethics, ICTs, e-commerce, mobile computing technology and the influence that new trends and developments have on the distribution of information.
Module credits: 12.00
Programmes
  BA Visual Studies
  BIS Information Science
  BIS Multimedia
  BIS Publishing
  BIT Information Systems
  BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science 210 (INL 210)
Qualification: Undergraduate
Module content
Information seeking and retrieval. This module explores the theory and practice of effective information seeking and retrieval. It builds on supporting research paradigms such as the systems, user-centred, cognitive and socio-cognitive paradigms. The focus is on the complexities of effective information seeking and retrieval within the context of information behaviour on a personal level, as well as in the context of professional, academic or everyday information needs.
Module credits: 20.00
Programmes
  BIS Information Science
  BIT Information Systems
  BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: AIM 101 or AIM 102 or AIM 111 and 121
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 220 (INL 220)
Qualification: Undergraduate
Module content
Representation and organisation. Information needs to be represented and organised in a system for it to be effectively retrievable. This module deals with the representation and organisation of information on the level

of individual entities (e.g. indexing), from the perspective of the users (user profiling), as well as within a document collection (taxonomies and ontologies).
Module credits: 20.00
Programmes
    BIS Information Science
    BIT Information Systems
    BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: INL 210 or LP
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science 230 (INL 230)
Qualification: Undergraduate
Module content
User studies and dissemination. This module focuses on the individual as seeker, user, reader and communicator of information. Various user groups are identified and their information use and communication patterns and requirements are analysed and investigated. This module covers methods of service provision to facilitate and enhance the use and dissemination of information in accordance with the user's needs.
Module credits: 20.00
Programmes
    BA Visual Studies
    BIS Information Science
    BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 240 (INL 240)
Qualification: Undergraduate
Module content
Social and ethical impact. This module examines moral and legal regulation practices related to information in print and digital environments. Different ethical theories are identified and applied to privacy, access to information, information poverty and censorship. The interpretation and enforcement of rules and regulations are discussed.
Module credits: 20.00
Programmes
    BA Visual Studies
    BIS Information Science
    BIS Publishing
    BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 260 (INL 260)
Qualification: Undergraduate
Module content
Economics and politics of information. This module examines the economics and politics of information, with a special emphasis on South Africa's information sector. It aims to promote an understanding of the market and non-market qualities of information, and their consequences for the production, distribution and marketing of information goods and services. The ways in which information access and expression are regulated and the use of ICTs in crime and corruption is also addressed.

Module credits: 20.00
Programmes
    BA Visual Studies
    BIS Information Science
    BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science 270 (INL 270)

Qualification: Undergraduate
Module content
Indigenous knowledge and communication. This module focuses on the role and function of Indigenous Knowledge (IK) in the information and knowledge society. Various categories and contexts of IK are explored within international and local perspectives. Issues pertaining to access and communication of IK, inter alia through Information and Communication Technology (ICT), are addressed in order to ensure sustainable development.
Module credits: 20.00
Programmes:
    BIS Information Science
    BPolSci Political Studies
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science: Information organisation 310 (INL 310)

Qualification: Undergraduate
Module content
Information Organisation. The module is concerned with the organisation of information in the digital environment focusing on the structure and use of document management and workflow systems, as well as distribution channels and virtual environments. The characteristics and application of the internet, intranets, as well as portals and applications use, are considered.
Module credits: 30.00
Programmes
    BA Visual Studies
    BIS Information Science
    BIT Information Systems
    BPolSci Political Studies
    BSc Computer Science
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science: Information and knowledge management 320 (INL 320)

Qualification: Undergraduate
Module content
Information and Knowledge Management. This module focuses on information and knowledge management at an operational level and introduces information and knowledge management at a corporate strategic level. It deals with the management of information and knowledge, which enables the organisation to be competitive. In this module the focus is on four aspects, namely: the 21st century organisation, the external and internal stakeholders that have an interest in information products, as well as the infrastructure that should be in place in organisations to manage information products. The module concludes with a few topics relating to information management at a corporate strategic level.

Module credits: 30.00
Programmes
        BIS Information Science
        BIT Information Systems
        BPolSci Political Studies
        BSc Computer Science
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science: Digital repositories 340 (INL 340)
Qualification: Undergraduate
Module content
This module deals with the construction and management of digital repositories. It also addresses the characteristics of the digital repository in a rapidly changing technological world and a challenging information society. Core aspects include: system design, relationships to hybrid libraries, digital collections and rights management, standards, virtual referencing and the development and evaluation of digital repositories.
Module credits: 30.00
Programmes
        BA Visual Studies
        BIS Information Science
        BPolSci Political Studies
        BSc Computer Science
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Information science: Socio-political aspects of information in global context 360 (INL 360)
Qualification: Undergraduate
Module content
This module examines aspects of the information and knowledge society within local, regional and international contexts. A special focus of the module is the interaction and exchange of data, information and knowledge from communities' local knowledge system with data, information and knowledge from the global knowledge system. The module discusses the growth and role of information and communication technologies (ICTs), and their implications for development.
Module credits: 30.00
Programmes
        BIS Information Science
        BPolSci Political Studies
        BSc Computer Science
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 1

Information science 370 (INL 370)
Qualification:Undergraduate
Module content: Experiential learning project. This module takes the form of a project and experiential training in co-operation with industry.
Module credits: 15.00
        Programmes
        BIS Information Science

BSc Computer Science
Prerequisites: INL 210, 220 and INL 310 or registered for INL 310
Contact time: 1 lecture per week, 2 practicals per week
Language of tuition: English
Presented by: Presented by the Department of Information Science
Period of presentation: Year

Information science: Competitive intelligence 380 (INL 380)
Qualification: Undergraduate
Module content
This module provides an overview of Competitive Intelligence (CI) and focuses on the needs for CI in organisations. The ways in which organisations compete and the benefits that CI can bring to these organisations will also be covered. The growing need for CI among South African organisations will also be examined. Practical examples and case studies will be used to highlight the value of CI in organisations.
Module credits: 30.00
Programmes
      BIS Information Science
      BPolSci Political Studies
      BSc Computer Science
Service modules: Faculty of Humanities
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Separate classes for Afrikaans and English
Presented by: Presented by the Department of Information Science
Period of presentation: Semester 2

Multimedia

Multimedia 110 (IMY 110)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection. Open to BIT, BSc:IT and BSc CS
students.
Mark-up Languages. This module explores the role of mark-up languages in the information environment;
the difference between the logical structure and the appearance of documents; the study of HTML, CSS and
XHTML; the building of websites and basic information architecture.
Module credits: 12.00
Programmes
        BIS Multimedia
Prerequisites: No prerequisites.
Contact time: 2 lectures per week, 2 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Multimedia 120 (IMY 120)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection.
Multimedia for the Web. This module introduces the process of creating and editing images, animation, basic
interactive content, and sound for the web using multimedia authoring tools, such as Adobe Photoshop,
Adobe Flash (with basic ActionScript), and Adobe Audition.
Module credits: 12.00
Programmes
        BIS Multimedia
Prerequisites: IMY 110
Contact time: 2 lectures per week, 2 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Multimedia 210 (IMY 210)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection.
Advanced Markup Languages 1. This module investigates XML and its related technologies (such as XSLT,
XPath, XSL-FO, DTD, XML Schema, and namespaces) as a vital part of the web development process.
Module credits: 16.00
Programmes
        BIS Multimedia
        BSc Information and Knowledge Systems
Prerequisites: IMY 110 or equivalent HTML knowledge
Contact time: 2 lectures per week, 2 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Multimedia 211 (IMY 211)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
Multimedia and hypermedia theory. This module offers the opportunity to make a thorough study of the
theory and applications of multimedia and hypermedia. This includes: multimedia products, multimedia
authoring tools, hypermedia databases, digital publications on the World Wide Web, New Media, as well as
information architecture, websites and the social realities and impact of the World Wide Web.
Module credits: 20.00
Programmes
        BIS Multimedia

Prerequisites: Departmental selection
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Multimedia 220 (IMY 220)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
Advanced Markup Languages 2. This module assumes knowledge of dynamic scripts and basic web based technologies such as PHP as well as the use of relational databases like MySQL. The module explores the interplay between scripting languages, databases, and current industry standard web technologies, from both the server-side and client-side perspectives. The module has a focus on developing hands-on practical skills.
Module credits: 16.00
Programmes
      BIS Multimedia
      BSc Information and Knowledge Systems
Prerequisites: IMY 210 and COS 216
Contact time: 2 lectures per week, 2 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Multimedia: Project 300 (IMY 300)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection.
The module enables students to combine all their knowledge gained through out their studies to create a functional game. The course consists of extensive game design theory teaching. The students create a game by following an iterative design process, extensive documentation and in depth play testing and usability testing. The final product is a creative, innovative and complete game.
Module credits: 45.00
Programmes
      BIS Multimedia
Prerequisites: COS 212
Contact time: 1 practical per week, 2 lectures per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Year

Multimedia 310 (IMY 310)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
Human-computer Interaction. This module involves a study of human-computer interaction and human-information interaction; humans as computer and information users; and the ethical aspects relating to the creation of multimedia information products. A detailed study of the role, composition and functioning of an interface, underlying principles in the design and evaluation of interfaces, will also be undertaken.
Module credits: 30.00
Programmes
      BIS Multimedia
      BSc Information and Knowledge Systems
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Multimedia 320 (IMY 320)
Qualification: Undergraduate

Module content
*Closed - requires departmental selection.
Trends. This module deals with technical aspects of multimedia hardware and
software, digital video and audio formats and compression; and version
management. A detailed study of the latest developments in mark-up languages
and related technologies will also be undertaken.
Module credits: 30.00
Programmes BIS Multimedia
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Multimedia trends 471 (IMY 471)
Qualification: Undergraduate
Module content History of multimedia ideas and technology; current trends in multimedia, latest technologies
and future trends of multimedia.
Module credits: 15.00
Programme
      BIT
Prerequisites: COS 301 and at least two COS modules at third-year level
Contact time: 1 lecture per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Hypermedia and mark-up languages 472 (IMY 472)
Qualification: Undergraduate
Module content
A study of hypermedia systems, specifically adaptive hypermedia systems, as well as data modelling,
storage and retrieval, database structures and metadata. A study of different mark-up languages and their
role in multimedia products with the emphasis on data structuring, hyper linking theories and models.
Module credits: 15.00
Prerequisites: COS 301 or IMY 300 or INF 370.
Contact time: 1 lecture per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Multimedia technology 473 (IMY 473)
Qualification: Undergraduate
Module content
In this module students will research and discuss a current topic which can change from year to year. The
topic for a specific year can be obtained from the departmental website. The topic is related to the creative
use of Multimedia Technologies. An understanding of the current multimedia trends is required together with
the knowledge of its usage.
Module credits: 15.00
Programme
      BIT
Prerequisites: COS 301 or IMY 300 or INF 370.
Contact time: 1 lecture per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Animation theory and practice 477 (IMY 477)
Qualification: Undergraduate
Module content
This module provides an overview of the historic and current principles and practice of natural motion
animation. Different animation techniques are covered, such as stop motion, traditional animation, and 3D

animation. The student receives an opportunity to create an animated short film using a technique of their choice.
Module credits: 15.00
Programme
        BIT
Prerequisites: COS 301 or IMY 300 or INF 370.
Contact time: 1 lecture per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Human-computer interaction 479 (IMY 479)
Qualification: Undergraduate
Module content
In this module, students are exposed to research topics and methodologies within the HCI discipline. Students then apply their understanding by proposing and delivering a research paper.
Module credits: 15.00
Programme
        BIT
Prerequisites: COS 301 or IMY 300 or INF 370.
Contact time: 1 lecture per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Publishing

Publishing: Introduction to publishing 110 (PUB 110)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection.
Introduction to publishing. This module will focus on an introductory overview of publishing: the historical development of publishing; the publishing value chain; business and legal issues relating to the publishing industry; and the broader macro-context.
Module credits: 12.00
Programmes
      BIS Publishing
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Publishing 120 (PUB 120)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
The Book Publishing Environment. This module provides a basic introduction to the book publishing environment. The following aspects are highlighted: the concept "publishing"; different publishing industries and environments; contexts of book publishing; the publishing value chain; processes, tasks and role-players involved in book publishing; different sectors of the book publishing industry; different types of publishing houses; external role-players; initiatives; strategies; current trends and issues.
Module credits: 12.00
Programmes
      BIS Publishing
Prerequisites: No prerequisites.
Contact time: 1 practical per week, 3 lectures per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Publishing 210 (PUB 210)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
Copy-editing. This module offers an introduction to copy-editing as a phase in the publishing process. Topics covered are the role of the copy-editor in the publishing value chain; the levels of editing; the responsibilities of the copy-editor towards the manuscript, the author and the publishing house; the responsibilities and skills of the proof-reader; typical problems in texts; proof-reading and copy-editing symbols and the mark-up of texts; as well as legal and ethical aspects of editing. Learners are also equipped with practical skills in proofreading and copy-editing both digital and print-based texts.
Module credits: 20.00
Programmes
      BIS Multimedia
      BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Publishing 220 (PUB 220)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
The Visual and Production Dimensions of Publishing. This module offers a theoretical positioning of graphic design, reproduction and printing within the publishing process, as well as practical applications thereof. The

following topics are addressed in the theoretical positioning: graphic design practice; the historical development of the relationship between reproduction and printing innovations and graphic design styles; the use of visual elements in publications; the management role of the editor in this phase. During the practical component learners are introduced to selected applications of DTP software and the practical aspects of the production phase.
Module credits: 20.00
Programmes
        BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Publishing 310 (PUB 310)
Qualification: Undergraduate
Module content
*Closed - requires departmental selection.
Publishing in the Digital Environment. The first part of this module focuses on the study of publications in the digital environment. Differences between paper-based and digital texts are studied. Publication formats in the digital arena are discussed by focusing on topics such as multimedia, hyper fiction, e-books, etc., as well as distribution channels such as intranets and portals. The influence of the digital environment on publications and publication processes is the main focus of the second part, focusing on understanding the nature and management of the epublishing environment and digital publishing technologies such as HTML, SGML,
XML and PDF.
Module credits: 30.00
Programmes
        BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Publishing 311 (PUB 311)
Qualification: Undergraduate
Module content
*Closed - requires department selection.
Commissioning. This module offers an introduction to the commissioning phase of the book publishing process. The process of manuscript commissioning is studied within the dual contexts of the South African publishing environment and the internal environment of the publishing house. Topics covered include: market research; list building; the management of both the manuscript development and production phases; costing a project; scheduling and contracts. Learners demonstrate their understanding of commissioning through case studies, role-plays and the creation of a manuscript proposal.
Module credits: 30.00
Programmes
        BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 1

Publishing 320 (PUB 320)
Qualification: Undergraduate
Module content
*Closed – requires departmental selection.
Management in the Publishing Environment. This module offers an introduction to publishing as a business. Topics covered include business models in the publishing industry, the organisational structures of publishing houses, and the application of marketing in a publishing context.
Module credits: 30.00

Programmes
        BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2

Publishing 321 (PUB 321)
Qualification: Undergraduate
Module content
*Closed - requires department selection.
Publishing in the Magazine and Corporate Environment. This module offers an introduction to the publishing value chain as applied to magazines and corporate publications; the magazine and corporate publishing environment (including kinds of magazines and corporate publications, readership, market segmentation); commissioning writing for magazines and corporate publications; production processes; sales and marketing; and distribution.
Module credits: 30.00
Programmes
        BIS Publishing
Prerequisites: No prerequisites.
Contact time: 3 lectures per week, 3 practicals per week
Language of tuition: Module is presented in English
Presented by the Department of Information Science
Period of presentation: Semester 2