INFS2024
Information Systems Analysis

Course Description
This course aims to provide students with the knowledge and skills necessary to successfully undertake information systems analysis. Lectures and tutorials provide coverage of the concepts, skills, methodologies, techniques, tools and perspectives considered essential for systems analysts working with modern information systems and their development.

<table>
<thead>
<tr>
<th>Semester and Year</th>
<th>Semester 1 2015</th>
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<tbody>
<tr>
<td>Mode of Delivery</td>
<td>On campus</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>INFS1001, COMP1100 or COMP2720</td>
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<tr>
<td>Incompatible Courses</td>
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<tr>
<td>Course Convener</td>
<td>Dr Alex Richardson</td>
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<td>Room 3034, Hanna Neumann Build #21</td>
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<td><a href="mailto:alex.richardson@anu.edu.au">alex.richardson@anu.edu.au</a></td>
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<tr>
<td>Consultation hours:</td>
<td>Refer to course website</td>
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<tr>
<td>Bio and research interests</td>
<td><a href="http://rsabis.anu.edu.au/rsabis/people/?profile=Alex-Richardson">Link</a></td>
</tr>
<tr>
<td>Tutor(s)</td>
<td>Refer to course website</td>
</tr>
<tr>
<td>Student Administrators</td>
<td>HN 2037 Hanna Neumann Bldg 21 <a href="mailto:enquiries.abis@anu.edu.au">enquiries.abis@anu.edu.au</a> 6125 0025 or 6125 7968 Office hours : Monday–Friday 9am– 5pm</td>
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COURSE OVERVIEW

Course Learning Outcomes
By the end of this course, you are expected to have attained a knowledge of or proficiency in the following areas:

LO1 Basic systems theory and the context within which information systems analysis is carried out;
LO2 Eliciting information system requirements;
LO3 Constructing process, logic and data models using traditional modelling techniques;
LO4 Basic object-oriented modelling using UML; and
LO5 “Soft” aspects and techniques in systems analysis.

Research-Led Teaching
The course has readings that are a mix of research and industry publications that cover both theoretical concepts and practical application of the content. The assessment provides the opportunity for students to apply newly developed skills and receive timely feedback.

Continuous Improvement
We use feedback from students, professional bodies and staff to make regular improvements to the course. In response to this feedback, design improvements from the previous version of the course include:

• Addition of more practical components to lecture classes
• Revised weekly assessment that incrementally builds upon set cases

Technology, Software, Equipment
You are assumed to have access to computing resources either of your own or those available in ANU computing laboratories. This is because, unless explicitly stated otherwise, you will be expected to use appropriate software for generating your answers to the weekly tutorial exercises. The software you will need will include standard office automation software (word processor, spreadsheet, etc) as well as more specialized drawing and modelling software that will be discussed at the appropriate time in class.

Requisites
Students attempting this course should have previously completed one of the following: INFS1001 Business Information Systems or COMP1100 Introduction to Programming and Algorithms or COMP2720 Automating Tools for New Media, or equivalent.

Co-teaching
This course may be co-taught in 2015 with the postgraduate course INFS7007: Information Systems Analysis and Modelling. If so, the lectures will be common to both courses but the tutorial classes will be separate and the weekly exercises discussed in them will differ in some of their content, as will the expected level of quality of the answers students in the different courses provide. The assessment for the two courses will also differ. Further clarification will be provided in the first lecture.
**Student Feedback**

All CBE courses are evaluated using Student Experience of Learning and Teaching (SELT) surveys, administered by Planning and Statistical Services at the ANU. These surveys are offered online, and students will be notified via email to their ANU address when surveys are available in each course. Feedback is used for course development so please take the time to respond thoughtfully. Course feedback is anonymous and provides the Colleges, University Education Committee and Academic Board with opportunities to recognise excellent teaching and to improve courses across the university. For more information on student surveys at ANU and reports on feedback provided on ANU courses, visit [http://unistats.anu.edu.au/surveys/selt/students/](http://unistats.anu.edu.au/surveys/selt/students/) and [http://unistats.anu.edu.au/surveys/selt/results/learning/](http://unistats.anu.edu.au/surveys/selt/results/learning/)

**COURSE SCHEDULE**

<table>
<thead>
<tr>
<th>Week</th>
<th>Summary of Activities</th>
<th>Assessment</th>
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<tbody>
<tr>
<td>1</td>
<td>Course Administration &amp; Introduction to Systems Analysis</td>
<td>Read Ch1 of text, do tutorial work for Wk 2</td>
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<tr>
<td>2</td>
<td>Elements of Systems Theory &amp; Concepts of Information</td>
<td>Read notes provided, do tutorial work for Wk 3</td>
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<tr>
<td>3</td>
<td>Project Selection, Feasibility and Management</td>
<td>Read Ch3 of text, do tutorial work for Wk 4</td>
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<tr>
<td>4</td>
<td>“Soft” Techniques</td>
<td>Read notes provided, do tutorial work for Wk 5</td>
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<tr>
<td>5</td>
<td>Requirements Determination</td>
<td>Read Ch4 &amp; Ch5 of text, do tutorial work for Wk 6</td>
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<tr>
<td>6</td>
<td>Process Modelling</td>
<td>Read Ch7 of text, do tutorial work for Wk 7</td>
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<tr>
<td>7</td>
<td>Process and Logic Modelling</td>
<td>Read Ch9 of text, do tutorial work for Wk 8</td>
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<tr>
<td>8</td>
<td>Data (Entity-Relationship) Modelling</td>
<td>Read Ch8 of text, do tutorial work for Wk 9</td>
</tr>
<tr>
<td>9</td>
<td>Data (Entity-Relationship) Modelling</td>
<td>Read Ch8 of text &amp; notes provided, do tutorial work for Wk 10</td>
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<tr>
<td>10</td>
<td>Object-oriented analysis &amp; UML</td>
<td>Re-read Ch2 &amp; begin reading Ch10 of text, do tutorial work for Wk 11</td>
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<tr>
<td>11</td>
<td>Object-oriented analysis &amp; UML</td>
<td>Continue reading Ch10 of text, do tutorial work for Wk 12</td>
</tr>
<tr>
<td>12</td>
<td>Object-oriented analysis &amp; UML</td>
<td>Continue reading Ch10 of text, do tutorial work for Wk 13</td>
</tr>
<tr>
<td>13</td>
<td>Moving from Analysis to Design &amp; System Development Methodologies</td>
<td>Read Ch2 &amp; Ch6 of text, and notes provided</td>
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Weekly Assessment Tasks
As noted above, the tutorial work comprises 40% of your final course mark. A set of questions will be assigned for each week of the semester and you are required to attempt to answer these questions individually and submit your answers to Wattle by the due date. Each week’s tutorial questions will deal with the lecture material presented during that week. Note that your tutorial answers must be provided in word-processed or other appropriate electronically produced form. Unless specifically noted in the tutorial instructions, handwritten work will not be accepted or, if submitted, will not be marked.

Your tutor will rate your submitted tutorial work each week on a 0 to 4 point scale:

- 0 = No work is submitted, or all of the answers are of an unacceptably poor standard.
- 1 = Not all questions are attempted, or all questions are attempted but most or all of the answers are significantly or seriously flawed.
- 2 = All questions are attempted but the quality of most of the submitted work is not much better than a barely acceptable standard.
- 3 = All questions are attempted and the quality of the answers is generally good.
- 4 = All questions are attempted and the quality of the answers is, on the whole, excellent.

Note that individual questions will not be marked. Nor should you expect there to be detailed written comments on your submitted work because you are expected to obtain this kind of feedback for yourself during the discussion in tutorial classes. Also note that the tutorial questions and work listed for each week should be done during that week, in preparation for discussion and submission in the following week’s class. That is, for example, the work in Tutorial 1 should be attempted during week 1, before the class scheduled for week 2 at which it will be discussed and submitted for assessment.

Weekly Assessment Submission
Weekly assessment tasks are to be submitted using the course Wattle site. Submitted assessment does not require a cover sheet. Please keep a copy of submitted work for your records.

The ANU is using Turnitin to enhance student citation and referencing techniques, and to assess assessment submissions as a component of the University's approach to managing Academic Integrity. For additional information regarding Turnitin please visit ANU Online.

Extensions and Penalties
Extensions for submission of weekly assessable work will not normally be allowed. Only in exceptional and unavoidable circumstances will consideration even be given to a request for an extension, and then there is no guarantee that such a request will be approved.
All requests for extensions to the submission deadline should be directed to the Course Convener.

**Returning Weekly Assessment**
Once weekly assessment has been marked, results will be released via the gradebook feature on Wattle.

**Examinations**
There will be a final examination, but no mid-semester examination for this course.

The final examination will be of 2 hours duration, plus 15 minutes reading time, and will be open book. That is, no restrictions will be placed on the written material you may take into the examination with you. Do not, however, be misled into thinking that being “open book” means the examination will be a “walk over” since you can always refer to your text or notes if you get stuck. The two basic reasons for this are:

- The type of questions you will be asked in the examination will not be such that you can simply “look up the answer” in the textbook or other notes or materials you may have brought in with you; and

- If you are not already familiar with the material, you will simply not have enough time to find, read and understand what you need and still be able complete the required examination work.

**Scaling**
Your final mark for the course will be based on the raw marks allocated for each assessment item. However, your final mark may not be the same number as produced by that formula, as marks may be scaled. Any scaling applied will preserve the rank order of raw marks (i.e. if your raw mark exceeds that of another student, then your scaled mark will exceed or equal the scaled mark of that student), and may be either up or down.

**Referencing Requirements**
Written assessment where referencing is required should use one of the common styles such as Harvard or APA. The choice of style is yours provided you are consistent in how you apply it. Refer to the Academic Skills & Learning Centre website for further information.

**READING LISTS**

**Prescribed Texts**
The prescribed textbook for this course is:


It is *essential* that you have ready access to this book (but see notes below) since it is the primary resource for your learning. Other supplementary material needed will be provided, as will the presentations used in lectures (downloadable from the Wattle course website). Solutions to the weekly assigned tutorial exercises *will not* be provided since students are expected to attend the tutorial classes in which these are discussed, and make their own notes on the basis of the discussion.

Among previous textbooks used in earlier versions of this course are:


Any of these, while different from, not as up-to-date and arguably less good in at least some respects than the prescribed textbook by Kendall and Kendall, would still make a suitable reference for the course and would therefore be an acceptable alternative.

**TUTORIAL AND/OR SEMINAR REGISTRATION**

Tutorial and/or Seminar signup for this course will be done via the Wattle website. Detailed information about signup times will be provided on Wattle or during your first lecture. When tutorials are available for enrolment, follow these steps:

1. Log on to Wattle, and go to the course site.
2. Click on the link “Tutorial signup here”
3. On the right of the screen, click on the tab “Become Member of ……” for the tutorial class you wish to enter.
4. Confirm your choice

If you need to change your enrolment, you will be able to do so by clicking on the tab “Leave group...” and then re-enrol in another group. You will not be able to enrol in groups that have reached their maximum number. Please note that enrolment in ISIS must be finalised for you to have access to Wattle.

**COMMUNICATION**

List here your preferred ways of communicating with students.

**Email**

If necessary, the lecturers and tutors for this course will contact students on their official ANU student email address. Information about your enrolment and fees from the Registrar and Student Services’ office will also be sent to this email address.

**Announcements**

Suggested wording: Students are expected to check the Wattle site for announcements about this course, e.g. changes to timetables or notifications of cancellations. Notifications of emergency cancellations of lectures or tutorials will be posted on the door of the relevant room.
Course URLs
More information about this course may be found on:

- Programs and Courses (http://programsandcourses.anu.edu.au/course/INFS2024)
- the College of Business and Economics website (http://cbe.anu.edu) and
- Wattle (https://wattle.anu.edu.au), the University's online learning environment. Log on to Wattle using your student number and your ISIS password.

Policies
The University offers a number of support services for students. Information on these is available online from http://students.anu.edu.au/studentlife/

ANU has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University’s academic standards, and implement them. You can find the University’s education policies and an explanatory glossary at: http://policies.anu.edu.au/

Students are expected to have read the Student Academic Integrity Policy before the commencement of their course.

Other key policies include:

- Student Assessment (Coursework)
- Student Surveys and Evaluations
- Copyright (http://copyright.anu.edu.au/)