INFORMATION SYSTEMS ANALYSIS  INFS-2024

Semester 1 2016   6 Units

CONTACT INFORMATION

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further details to be added once known

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further details to be added once known

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Office: Level 2, Building 26C
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.

Requisites

To enrol in this course you must have completed INFS1001 or COMP1100 or COMP1720.

LEARNING OUTCOMES

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

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

SCHEDULE

Research-led teaching:

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Staff feedback:

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<thead>
<tr>
<th>When</th>
<th>Topic</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Lecture Week 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>Lecture Week 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>Lecture</td>
<td>Project Selection, Feasibility and Management</td>
<td>Read Ch3 of text, do tutorial work for Wk 4</td>
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<td>Week 3</td>
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<tr>
<td>Lecture</td>
<td>“Soft” Techniques</td>
<td>Read notes provided, do tutorial work for Wk 5</td>
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<td>Week 4</td>
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<tr>
<td>Lecture</td>
<td>Requirements Determination</td>
<td>Read Ch4 &amp; Ch5 of text, do tutorial work for Wk 6</td>
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<td>Week 5</td>
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<tr>
<td>Lecture</td>
<td>Process Modelling</td>
<td>Read Ch7 of text, do tutorial work for Wk 7</td>
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<td>Week 6</td>
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<tr>
<td>Lecture</td>
<td>Process and Logic Modelling</td>
<td>Read Ch9 of text, do tutorial work for Wk 8</td>
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<td>Week 7</td>
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<tr>
<td>Lecture</td>
<td>Data (Entity-Relationship) Modelling - Part 1</td>
<td>Read Ch8 of text, do tutorial work for Wk 9</td>
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<td>Week 8</td>
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<tr>
<td>Lecture</td>
<td>Data (Entity-Relationship) Modelling - Part 2</td>
<td>Read Ch8 of text &amp; notes provided, do tutorial work for Wk 10</td>
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<td>Week 9</td>
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<tr>
<td>Lecture</td>
<td>Object-oriented analysis &amp; UML - Part 1</td>
<td>Re-read Ch2 &amp; begin reading Ch10 of text, do tutorial work for Wk 11</td>
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<td>Week 10</td>
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<tr>
<td>Lecture</td>
<td>Object-oriented analysis &amp; UML - Part 2</td>
<td>Continue reading Ch10 of text, do tutorial work for Wk 12</td>
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<td>Week 11</td>
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<tr>
<td>Lecture</td>
<td>Object-oriented analysis &amp; UML - Part 3</td>
<td>Continue reading Ch10 of text, do tutorial work for Wk 13</td>
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<td>Week 12</td>
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<tr>
<td>Lecture</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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<td>Week 13</td>
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**MATERIALS**

**Systems Analysis and Design, Global Edition**

Author: Kendall, K. & Kendall, J.
Publisher: Pearson
Edition: 9th
# Assessment Overview

## Summary

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<th>Type</th>
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<th>Learning Outcome</th>
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[Concourse Information Systems Analysis](https://anu.campusconcourse.com/view_syllabus?course_id=2474)
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. 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.

Form of 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.

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.

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 (http://online.anu.edu.au/turnitin).

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
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<tr>
<td></td>
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<td>an unacceptably poor standard.</td>
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<td>• 1 = Not all questions are attempted, or all questions are attempted but most or</td>
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<td>all of the answers are significantly or seriously flawed.</td>
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<td>• 2 = All questions are attempted but the quality of most of the submitted work</td>
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<td>is not much better than a barely acceptable standard.</td>
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<td>• 3 = All questions are attempted and the quality of the answers is generally</td>
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<td>good.</td>
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<td>• 4 = All questions are attempted and the quality of the answers is, on the</td>
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<tr>
<td></td>
<td></td>
<td>whole, excellent.</td>
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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.

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

**Compulsory Assessment**

Consider all weekly assessment as being compulsory. You will have an opportunity to submit up to 12 pieces of weekly assessment to obtain the 40%, with each individual piece of weekly assessment being worth 4%. Therefore your best TEN pieces will be used to calculate this grade component.

Please note that 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
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submission deadline should be directed to the Course Convener.
**Type**  | **Weight** | **Learning Outcome** | **Notes**
---|---|---|---
Final Examination  | 60%  | All  | There will be a final examination, but no mid-semester examination for this course.

**Due Date**
The final examinations will be held during the Semester 1 2016 examination period in June.

**Form of Submission**
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.

**Compulsory Assessment**
The final examination is compulsory and must be sat in order to eligible for consideration to pass the course.

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### Grading Scale

According to the ANU policy on assessment ([https://policies.anu.edu.au/ppl/document/ANUP_004603](https://policies.anu.edu.au/ppl/document/ANUP_004603)), the standards that apply to High Distinction, Distinction, Credit and Pass in all coursework courses are as
follows:

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<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HD</td>
<td>80-100%</td>
<td>Work of exceptional quality, as demonstrated in the attainment of learning outcomes at or above the relevant qualification level</td>
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<tr>
<td>D</td>
<td>70-79%</td>
<td>Work of superior quality, as demonstrated in the attainment of learning outcomes at or above the relevant qualification level</td>
</tr>
<tr>
<td>C</td>
<td>60-69%</td>
<td>Work of good quality, as demonstrated in the attainment of learning outcomes at or above the relevant qualification level</td>
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<tr>
<td>P</td>
<td>50-59%</td>
<td>Work of satisfactory quality, as demonstrated in the attainment of learning outcomes at or above the relevant qualification level</td>
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<tr>
<td>N</td>
<td>0-49%</td>
<td>Work in which the attainment of learning outcomes at or above the relevant qualification level has not been demonstrated</td>
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**ASSESSMENT ITEMS**

**Tutorial Assessment Tasks: Weekly**

**Details of Task**

The weekly assessment tasks for 12 weeks will be made available week by week on the Wattle website for INFS2024.

**Word Limit**

There is no word limit.

**Submission Date**

The weekly tasks can be submitted any time between being made available and the specified due date for that assessment piece. **Please note that extensions for submission of weekly assessable work will not normally be allowed.**

**Due Date of Assessment**

The specific due date for each weekly assessment piece will be 24-48 hours before the tutorial in which they are discussed. At this stage it is expected to be weekly on Monday at 6pm.

**Examination: Final**

**Details of Task**
Further information about the final examination and study materials (including previous exams) will be made available on the Wattle website for INFS2024.

**Word Limit**

There is no word limit.

**Submission Date**

The final examination timetable will be decided and made public later in Semester 1 2016. As further details become known, they will be made available on the Wattle website for INFS2024.

**Due Date of Assessment**

The final examination timetable will be decided and made public later in Semester 1 2016. As further details become known, they will be made available on the Wattle website for INFS2024.

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### COURSE EXPECTATIONS

#### Announcements

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.

#### Tutorial and/or Seminar registration

Tutorial and/or Seminar registration is done through the course Wattle page. Detailed information about sign-up times will be provided on Wattle or during the first lecture by the course convener.

When tutorials/seminars are available for enrolment:

1. Log-on to Wattle, and go to the course site.
2. Click on "Tutorial sign-up here" link
3. On the right of the screen, click "Become Member of ..." for the tutorial/seminar class you wish to enrol in.
4. Confirm your choice.

If you need to change your enrolment, click 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 your enrolment in ISIS must be finalised for you to have Wattle access.

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### Extensions and penalties

You may be granted extensions for assessment pieces that are not examinations or take-home examinations by applying for special consideration.

Late submission of assessment tasks without an extension are penalised at the rate of 5% of the possible marks available per working day or part thereof. Late submission of assessment tasks is not accepted 10 working days after the due date, or on or after the date specified in the course outline for the return of the assessment item.

If a course convener determines that late submission of assessment tasks is not accepted for a coursework course, this information is included in the course outline.

Special consideration for assessments

Students who are unable to submit their assessment by the due date may be eligible for an extension if supported by an Application for Special Consideration.

Information on special assessment consideration can be found at: http://www.anu.edu.au/students/program-administration/assessments-exams/special-assessment-consideration.

Special Consideration applications must be completed before the due date of the affected assessment. In exceptional circumstances applications for an extension may be accepted up to three working days after the due date of the affected assessment.

The application must include all supporting documentation and include a copy of as much of the assignment as has been completed by the due time and date.

Special consideration applications must be submitted online at special.consideration@anu.edu.au (cdn-cgi/l/email-protection#3d0d3c6c0cac2cf8dc0ccdd0cac7c6d1c2d7caccde3c2cdd68dc6c7d68dc2d6).

You will be notified by your lecturer if an extension has been approved.

Identify your Assignment with your Student Number only

When submitting your assignment please ensure that it contains your student number in the file name and on the first page. Please do not put your name anywhere in your assignment.

Resubmission of assignments

You are allowed to resubmit your assignments before the specific deadlines. Any submission done after the deadline will be considered as a late submission and the above listed penalty conditions will apply.
Returning assignments

All assignments will be marked and where appropriate feedback will be provided either:

- in class, or
- in person by appointment with the course lecturer, or
- via the course Wattle site.

Referencing requirements

See any specific requirements under Assessment Items.

The Harvard or Oxford referencing styles are to be used. Links to documentation on proper referencing methods are available on the course website or from the ANU Library website:

Deferred examinations

A deferred examination is the sitting of an examination at a time other than the scheduled time/date.

Wherever possible a student should sit their examination at the prescribed time, and if necessary apply for special assessment consideration for the marking of the examination. To apply for a deferred examination:

- Complete the form at http://www.anu.edu.au/students/program-administration/assessments-exams/deferred-examinations
- Scan and attach all supporting documentation
- Email to examinations.officer@anu.edu.au

Submit completed application no later than three working days after the scheduled examination.

Decisions on applications relating to final examinations are made by the Examinations Office.

After receiving notification that a deferred examination has been granted, it is the responsibility of the student to confirm the date/time/location for that examination with the relevant ANU College or School.

Finalisation of Marks and Grades

Your final mark for the course will be based on the raw marks allocated for each of your assessment items. However, your final mark may not be the same number as produce 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 the scaled mark of that student), and may be either up or down.

**Use of Assignments as exemplars and grade moderation**

An important resource for enhancing educational quality is a stock of student work which can be de-identified and used as exemplars for future students in ANU courses, and for grade moderation exercises for teaching staff. If you do not wish your assignment to be used for such purposes please include a note to that effect on the front page of the assignment.

**ANU POLICIES**

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/](http://policies.anu.edu.au/)

Key policies include:

- Code of Practice for Student Academic Integrity
- Student Assessment (Coursework) Policy and Procedure
- Undergraduate Award Rules
- Graduate Award Rules
- Student Surveys and Evaluations Policy

**Academic Integrity**

Students are expected to have read the ANU's Code of Practice for Student Academic Integrity before the commencement of their course. ([https://policies.anu.edu.au/ppl/document/ANUP_000392](https://policies.anu.edu.au/ppl/document/ANUP_000392))

The following is an extract from the Code of Practice for Student Academic Integrity:

Any work by a student of the Australian National University must be work:

- that is original
- that is produced for the purposes of a particular assessment task
- that gives appropriate acknowledgement of the ideas, scholarship and intellectual property of others insofar as these have been used.

It is the responsibility of each individual student to ensure that:

- they are familiar with the expectations for academic integrity both in general, and in the specific context of particular disciplines or courses
- work submitted for assessment is genuine and original
- appropriate acknowledgement and citation is given to the work of others
- they declare their understanding of and compliance with the principles of academic integrity on appropriate *pro formas* and cover sheets as required by the academic area, or by a statement prefacing or attached to a thesis
- they do not knowingly assist other students in academically dishonest practice.
All breaches, careless or deliberate, are addressed. Careless breaches are addressed through academic penalties, such as deduction of marks and resubmission. Deliberate breaches are subject to action under the Discipline Rules of the ANU (http://about.anu.edu.au/__documents/rules/disciplinerules.pdf).

Penalties for a deliberate breach may include failing the piece of work involved, failing the course, or having candidature terminated.

Further information can be found at http://academichonesty.anu.edu.au/ (http://academichonesty.anu.edu.au/)

Assessment Requirements

Where possible, assessment items are submitted online through Turnitin. The ANU is using Turnitin to enhance student citation and referencing techniques, and to assess assignment submissions as a component of the University's approach to managing Academic Integrity.

For additional information regarding Turnitin please visit the ANU Online website (http://online.anu.edu.au/help_support/turnitin (http://online.anu.edu.au/help_support/turnitin)).

Student Feedback

ANU is committed to the demonstration of educational excellence and regularly seeks feedback from students. One of the key formal ways students have to provide feedback is through Student Experience of Learning Support (SELS) surveys. The feedback given in these surveys is anonymous and provides the Colleges, University Education Committee and Academic Board with opportunities to recognise excellent teaching, and opportunities for improvement.


Student Support Services

Students experiencing academic or personal problems are welcome to discuss these with any member of the Faculty or to utilise the ANU's student support services links to which can be found at http://students.anu.edu.au/ (http://students.anu.edu.au/), including:

- the Counselling Centre at http://counselling.anu.edu.au/ (http://counselling.anu.edu.au/)
Library

- Information about the library can be found at http://anulib.anu.edu.au
  (http://anulib.anu.edu.au/)
- Opening hours can be accessed at http://anulib.anu.edu.au/using-the-library/opening-hours/
  (http://anulib.anu.edu.au/using-the-library/opening-hours/)
- For free training in information skills and computer skills see http://anulib.anu.edu.au/research-learn
  (http://anulib.anu.edu.au/research-learn/)