INFS3611
INFORMATION SYSTEMS PROJECT 1

Course Outline
Semester 1, 2014

Part A: Course-Specific Information

Please consult Part B for key information on ASB policies (including those on plagiarism and special consideration), student responsibilities and student support services.
# Table of Contents

PART A: COURSE-SPECIFIC INFORMATION 3

1 STAFF CONTACT DETAILS 3

2 COURSE DETAILS 3
   2.1 Teaching Times and Locations 3
   2.2 Units of Credit 3
   2.3 Summary of Course 3
   2.4 Course Aims and Relationship to Other Courses 3
   2.5 Student Learning Outcomes 4

3 LEARNING AND TEACHING ACTIVITIES 6
   3.1 Approach to Learning and Teaching in the Course 6
   3.2 Learning Activities and Teaching Strategies 6

4 ASSESSMENT 6
   4.1 Formal Requirements 6
   4.2 Assessment Details 6
   4.3 Assessment Component: Individual Assignment 7
   4.4 Assessment Component: Group Assignment (Group Project) 7
   4.5 Assessment Component: Exam 7
   4.6 Assignment Submission Procedure 7
   4.7 Assessment Format 8
   4.8 Assignment Submission Procedure 8
   4.9 Late Submission 8

5 COURSE RESOURCES 8

6 COURSE EVALUATION AND DEVELOPMENT 9

7 COURSE SCHEDULE 10
PART A: COURSE-SPECIFIC INFORMATION

1 STAFF CONTACT DETAILS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email</th>
<th>Room</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturer-in-Charge (LIC)</td>
<td>Dr. Daniel Schlagwein</td>
<td><a href="mailto:schlaguein@unsw.edu.au">schlaguein@unsw.edu.au</a></td>
<td>Quad 2114</td>
<td>56487</td>
</tr>
</tbody>
</table>

Consultation will be advised in week 1. The best way to contact your lecturer or tutor is via email or to see them during their consultation times. Please note that only your UNSW email account will be used for formal notices and correspondence regarding the course. If you need to contact the school urgently, ring 9385-5320 or email istm@unsw.edu.au.

2 COURSE DETAILS

2.1 Teaching Times and Locations
The lecture and lab structure will be advised in week 1.

<table>
<thead>
<tr>
<th>Element</th>
<th>Day and Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture/tutorial</td>
<td>Wed 18:00-21:00</td>
<td>TETB LG03</td>
</tr>
<tr>
<td>Lab/project work time 1</td>
<td>Wed 13:00-14:00</td>
<td>Quad Lab 7</td>
</tr>
<tr>
<td>Lab/project work time 2</td>
<td>Wed 14:00-15:00</td>
<td>Quad Lab 5</td>
</tr>
<tr>
<td>Lab/project work time 3</td>
<td>Wed 15:00-16:00</td>
<td>Quad Lab 5</td>
</tr>
</tbody>
</table>

2.2 Units of Credit
The course is worth 6 units of credit. There is no parallel teaching in this course.

2.3 Summary of Course
This course aims to develop students’ abilities to manage information system projects. Particular focus of the course is on managing the analysis and design aspects of information systems development. Hence, the course requires students to analyse requirements of the intended users of a system, designing a system and developing a prototype implementation in a practical information system project (the group assignment). During the project, student groups will discuss their project progress with the teaching staff in several milestones. The course requires students to synthesize and apply material learnt in previous courses. The course introduces new material only where it directly relates to the practical project.

2.4 Course Aims and Relationship to Other Courses
The prerequisites of this course are successful completion of INFS2603 and either INFS1609 or INFS2609. Alternatively, you can take this course if you are enrolled in a Software Engineering program.
This course is a “capstone” course. As such, the course focuses on the synthesis, integration and application of students’ knowledge from previous courses. We build on a general broad understanding of the user/business benefits of information system as introduced in INFS1602 to develop the value proposition of the information system. We utilise the database skills acquired in as INFS1603 to develop the data infrastructure of the information system. The analysis, design and implementation techniques learnt in INFS2603 are required for structuring and conducting the information system project work.

2.5 Student Learning Outcomes

The course aims at the following Course Learning Outcomes, which are the qualities, skills and understandings we want you to have on successful completion of this course:

<table>
<thead>
<tr>
<th>Course Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>On successful completion of the course, you should be able to:</td>
</tr>
<tr>
<td>1. Apply relevant disciplinary knowledge in practical IS development projects.</td>
</tr>
<tr>
<td>2. Identify technological issues, design solutions, and implement IS solutions.</td>
</tr>
<tr>
<td>3. Prepare written professional reports on IS development projects that detail business cases, user requirements, system designs and prototypical implementations.</td>
</tr>
<tr>
<td>4. Deliver well-structured presentations on IS development projects and the corresponding deliverables.</td>
</tr>
<tr>
<td>5. Work collaboratively in IS development teams, and reflect on their personal and their team’s experience.</td>
</tr>
<tr>
<td>6. Discuss the ethical implications of new IS and consider such implications in the actual design of IS.</td>
</tr>
<tr>
<td>7. Discuss the social and cultural implications of new IS and consider such implications in the actual design of IS.</td>
</tr>
</tbody>
</table>

The ASB Undergraduate Program Learning Outcomes are the qualities, skills and understandings we want you to have by the completion of your degree:

<table>
<thead>
<tr>
<th>ASB Undergraduate Program Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Knowledge: Our graduates will have in-depth disciplinary knowledge applicable in local and global contexts.</td>
</tr>
<tr>
<td>You will be able to select and apply disciplinary knowledge to business situations in a local and global environment.</td>
</tr>
<tr>
<td>2. Critical thinking and problem solving: Our graduates will be critical thinkers and effective problem solvers.</td>
</tr>
<tr>
<td>You will be able to identify and research issues in business situations, analyse the issues, and propose appropriate and well-justified solutions.</td>
</tr>
<tr>
<td>3. Communication: Our graduates will be effective professional communicators.</td>
</tr>
<tr>
<td>You will be able to:</td>
</tr>
</tbody>
</table>

INFS3611 - Information Systems Project 1
a. Prepare written documents that are clear and concise, using appropriate style and presentation for the intended audience, purpose and context, and

b. Prepare and deliver oral presentations that are clear, focused, well structured, and delivered in a professional manner.

4. Teamwork: Our graduates will be effective team participants.
You will be able to participate collaboratively and responsibly in teams, and reflect on your own teamwork, and on the team’s processes and ability to achieve outcomes.

5. Ethical, social and environmental responsibility: Our graduates will have a sound awareness of the ethical, social, cultural and environmental implications of business practice.
You will be able to:
   a. Identify and assess ethical, environmental and/or sustainability considerations in business decision-making and practice, and
   b. Identify social and cultural implications of business situations.

Refer to the ASB website to see how the ASB Program Learning Goals relate to the UNSW Graduate Attributes.

The following table shows how the Course Learning Outcomes support the Program Learning Outcomes. The table also shows where the Course Learning Outcomes are assessed:

<table>
<thead>
<tr>
<th>ASB Undergraduate Program Learning Outcomes</th>
<th>Course Learning Outcomes</th>
<th>Course Assessment Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course helps you to achieve the following learning outcomes for all ASB undergraduate students:</td>
<td>On successful completion of the course, you should be able to:</td>
<td>This learning outcome will be assessed in the following items:</td>
</tr>
</tbody>
</table>
| 1 Knowledge | Apply relevant disciplinary knowledge in practical IS development projects. | ▪ Individual Assignment  
▪ Group Assignment  
▪ Exam |
| 2 Critical thinking and problem solving | Identify technological issues, design solutions, and implement IS solutions. | ▪ Individual Assignment  
▪ Group Assignment  
▪ Exam |
| 3a Written communication | Prepare written professional reports on IS development projects that detail business cases, user requirements, system designs and prototypical implementations. | ▪ Individual Assignment  
▪ Group Assignment  
▪ Exam |
| 3b Oral communication | Deliver well-structured presentations on IS development projects and the corresponding deliverables. | ▪ Group Assignment |
3 LEARNING AND TEACHING ACTIVITIES

3.1 Approach to Learning and Teaching in the Course
This course adopts a project-based approach to learning and teaching. Students learn by applying their knowledge in real-life inspired project situations. The learning is supported by the LIC through guiding and giving specific feedback to each group in the role of the project sponsor.

3.2 Learning Activities and Teaching Strategies
The course has few standard lectures. Lecture materials will be directly related to the practical component of the course (the group assignment). The focus of the course is on the practical component that students groups are conducting largely independent. Specifically, student groups conduct project planning, specification and implementation of a non-trivial information system in a student’s choice of development languages. The lab time allocated to this course largely provides the technical support and workspace for the project groups. All groups will be given repeated specific feedback on their project progress by the LIC during the project milestones. Student groups will present project progress at the milestones and at the end of the project/course.

4 ASSESSMENT

4.1 Formal Requirements
To receive a pass grade in this course, you must meet all of the following criteria:
- Attain an overall mark of at least 50%.
- Attend at least 80% of all classes.
- Attain a satisfactory performance in each component of the course. A mark of 45% or higher is normally regarded as satisfactory.
- Attain a mark of at least 45% in the final exam.
The School reserves the right to scale final marks to a mean of 60%.

4.2 Assessment Details

<table>
<thead>
<tr>
<th>Assessment Component</th>
<th>Weight</th>
<th>Length</th>
<th>Submission/Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual assignment</td>
<td>20%</td>
<td>Max. 2500 words</td>
<td>Hard copy in W5</td>
</tr>
</tbody>
</table>

INFS3611 - Information Systems Project 1 6
4.3 Assessment Component: Individual Assignment
This assignment is to be undertaken individually. Each student will be required to research one topic relevant to the user requirement study of information systems (to be selected in consultation with the LIC) and present an individual report. Marks from the assignment might be adjusted based on peer assessment/peer marking. The assignment requirements document will be available on the course website. The LIC will provide further advice on the assignment in the lecture.

4.4 Assessment Component: Group Assignment (Group Project)
This assignment is to be undertaken in groups of 4 (3 to fill) that will be set up in the lecture. The project involves the analysis, user requirement study and prototypical development of an information system. The work is presented in form of a written report and an oral presentation. The report and the presentation must address all parts specified in the group assignment specification document. The purpose of the group assignment is to develop students’ abilities to work in groups, manage time and group work, analyse user requirements, develop system designs, implement information systems as well as to prepare coherent reports and professional presentations. Marks from the assignment might be adjusted based on peer assessment/peer marking. The assignment requirements document will be available on the course website. The LIC will provide further advice on the assignment in the lecture.

4.5 Assessment Component: Exam
The final exam may cover all material discussed in the course, the lecture notes, the textbooks, and, especially, the assignments. The exam will focus on an informed and well-reasoned argument that shows student’s ability to select, synthesize, apply and critically reflect on course contents (i.e., not just reproduce contents). The purpose of the exam is to develop students’ abilities to critically assess their conclusive understanding of and ability to synthesize the course contents. Students are expected to show that they are “on top” of the material by providing an informed arguments in a limited time. The LIC will provide further advice on the exam in the lecture.

4.6 Assignment Submission Procedure
Individual and group assignments are to be submitted as a soft copy online, and as a hard copy in the lecture (both with signed UNSW cover sheet). Assignments will be screened with
plagiarism-detecting software. The submission of non-original materials (including code and database schemes) will be considered plagiarism.

### 4.7 Assessment Format

Assignments need to be submitted in the standard UNSW format. Especially, the assignment needs to including the signed UNSW standard assignment cover sheet. Further details will be provided in the assignment specifications document.

### 4.8 Assignment Submission Procedure

Assignments need to be submitted as a PDF soft copy online and as a hard copy on the due day (both with signed UNSW cover sheet). Assignments will be screened with plagiarism-detecting software. The submission of non-original materials will be considered plagiarism and will be pursued.

### 4.9 Late Submission

Late submission of an assignment is not desirable, disrupt the course timelines, and are a sign of poor time management. Assignments are to be submitted on – or better before – the due date. The late submission of assignments carries a penalty of 10% of the awarded marks for that assignment per day of lateness (including weekends and public holidays). For example, a 70 marking would be reduced by 7 marks per day of lateness. An extension of time to complete an assignment may be granted by the LIC in case of illness or misadventure. Applications for an extension need to be made to and approved by the LIC by email or in person before the due date. You will be need to sent appropriate evidence such as medical certificates, accident reports etc. with your application. Please note that workload, work commitments and computer failures are usually considered insufficient grounds for an extension. For group assignments only: groups are expected to plan ahead and to being able to balance out a missing member without an extension. An extension is unlikely to be granted for groups.

All applications for special consideration (for assignments, attendance or the final exam) must be made following the guidelines in the UNSW A-Z Student Guide. See the following URL: [https://my.unsw.edu.au/student/atoz/SpecialConsideration.html](https://my.unsw.edu.au/student/atoz/SpecialConsideration.html).

---

**Quality Assurance**

The ASB is actively monitoring student learning and quality of the student experience in all its programs. A random selection of completed assessment tasks may be used for quality assurance, such as to determine the extent to which program learning goals are being achieved. The information is required for accreditation purposes, and aggregated findings will be used to inform changes aimed at improving the quality of ASB programs. All material used for such processes will be treated as confidential and will not be related to course grades.

---

### 5 COURSE RESOURCES

The textbooks for this course are:

**Dennis, Wixom and Tegarden (2012), System Analysis & Design (5e). John Wiley & Sons, Hoboken, NJ, USA. [3e and 4e are also OK]**

INFS3611 - Information Systems Project 1 8
Schwalbe (2013). Information Technology Project Management (7e).
Cengage, Boston, MA, USA. [6e is also OK]

Both books are relevant for the course. Additional course materials may be provided in class and on the course website.

6 COURSE EVALUATION AND DEVELOPMENT

Each year feedback is sought from students and other stakeholders about the courses offered in the School and continual improvements are made based on this feedback. UNSW's Course and Teaching Evaluation and Improvement (CATEI) Process is one of the ways in which student evaluative feedback is gathered. In this course, we will seek your feedback through end of semester CATEI evaluations and through direct feedback from students to the LIC in class.
# Course Schedule

**Lecture Schedule: INFS1603, Business Databases**  
Lecture: Wed 18:00-21:00, TETB LG03

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture Topic</th>
<th>Reading</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 2</td>
<td>Project Management</td>
<td>Dennis, Ch. 2</td>
<td>–</td>
</tr>
<tr>
<td>Week 3</td>
<td>Group Project Preparation</td>
<td>Schwalbe and Dennis as needed for project</td>
<td>Individual assignment due.</td>
</tr>
<tr>
<td>Week 4</td>
<td>Iteration 1</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td>Week 5</td>
<td>Iteration 1</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td>Week 6</td>
<td>Iteration 2</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td>Week 7</td>
<td>Iteration 2</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Mid-Semester Break: 18 April – 27 April</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 8</td>
<td>Iteration 3</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td>Week 9</td>
<td>Iteration 3</td>
<td>Dto.</td>
<td>–</td>
</tr>
<tr>
<td>Week 10</td>
<td>Buffer</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Week 11</td>
<td>Project Presentations</td>
<td>–</td>
<td>Group assignment due.</td>
</tr>
<tr>
<td>Week 12</td>
<td>Review + Exam Preparation</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Week 13</td>
<td>NO LECTURE</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Study Period: 7 June – 12 June  
Exam Period: 13 June – 30 June