

INFS3611

INFORMATION SYSTEMS PROJECT 1

Course Outline

Semester 1, 2017

Part A: Course-Specific Information

Please consult Part B for key information on Business School policies (including those on plagiarism and special consideration), student responsibilities and student support services.

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PART A: COURSE-SPECIFIC INFORMATION

1 STAFF CONTACT DETAILS

Position	Name	Email	Room	Phone
Lecturer in Charge (LIC)	Dr Sandeep Mysore Seshadrinath	ms.sandeep@unsw.edu.au	QUAD2086	57126

Consultation by appointment. If you need to contact the school urgently, ring 9385-5320 or email istm@unsw.edu.au. For correspondence, please use your UNSW email address only (not external email addresses, social media or the Moodle messaging system).

2 COURSE DETAILS

2.1 Teaching Times and Locations

Lectures start in Week 1 (to Week 13): The Time and Location are:

Element	Day and Time	Location
Lecture Stream A	Tuesday 4 – 6 PM	UNSW Business School G23 (The Place)
Lecture Stream B	Tuesday 6 – 8 PM	UNSW Business School G23 (The Place)

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. Students need to have been completed 72 UoC.

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:

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

The Course Learning Outcomes are what you should be able to DO by the end of this course if you participate fully in learning activities and successfully complete the assessment items.

The Learning Outcomes in this course also help you to achieve some of the overall Program Learning Goals and Outcomes for all undergraduate students in the Business School. Program Learning Goals are what we want you to BE or HAVE by the time you successfully complete your degree (e.g. 'be an effective team player'). You demonstrate this by achieving specific Program Learning Outcomes – what you are able to DO by the end of your degree (e.g. 'participate collaboratively and responsibly in teams').

For more information on the Undergraduate Program Learning Goals and Outcomes, see Part B of the course outline.

Business Undergraduate Program Learning Goals and Outcomes

1. Knowledge: Our graduates will have in-depth disciplinary knowledge applicable in local and global contexts.

You should be able to select and apply disciplinary knowledge to business situations in a local and global environment.

2. Critical thinking and problem solving: Our graduates will be critical thinkers and effective problem solvers.

You should be able to identify and research issues in business situations, analyse the issues, and propose appropriate and well-justified solutions.

3. Communication: Our graduates will be effective professional communicators.

You should be able to:

- 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 should 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 should 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.

The following table shows how your Course Learning Outcomes relate to the overall Program Learning Goals and Outcomes, and indicates where these are assessed (they may also be developed in tutorials and other activities):

Program Learning Goals and Outcomes		Course Learning Outcomes	Course Assessment Items
<i>This course helps you to achieve the following learning goals for all UNSW Business School undergraduate students:</i>		<i>On successful completion of the course, you should be able to:</i>	<i>This learning outcome will be assessed in the following items:</i>
1	Knowledge	Apply relevant disciplinary knowledge in practical IS development projects.	<ul style="list-style-type: none"> ▪ Individual Assignment ▪ Group Assignment ▪ Exam
2	Critical thinking and problem solving	Identify technological issues, design solutions, and implement IS solutions.	<ul style="list-style-type: none"> ▪ 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.	<ul style="list-style-type: none"> ▪ Individual Assignment ▪ Group Assignment ▪ Exam
3b	Oral communication	Deliver well-structured presentations on IS development projects and the corresponding deliverables.	<ul style="list-style-type: none"> ▪ Group Assignment
4	Teamwork	Work collaboratively in IS developments teams, and reflect on their personal and their team's experience.	<ul style="list-style-type: none"> ▪ Group Assignment ▪ Individual Reflection ▪ Exam

5a	Ethical, environmental and sustainability responsibility	Discuss the ethical implications of new IS and consider such implications in the actual design of IS.	<ul style="list-style-type: none"> ▪ Group Assignment ▪ Exam
5b	Social and cultural awareness	Discuss the social and cultural implications of new IS and consider such implications in the actual design of IS.	<ul style="list-style-type: none"> ▪ Group Assignment ▪ Exam

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.

<http://www.guidelinesonlearning.unsw.edu.au/>

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 student 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. 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

Assessment Component	Weight	Length	Submission/Due Date
Individual assignment	15%	Max. 2500 words (5 pages)	PDF submission via Moodle before Mon, 20 March 2017, 11.55pm (Week 4).
Group assignment	50%	Max. 15000 words (30 pages)	PDF submission via Moodle before Mon, 22 May 2017, 11.55pm (Week 12).
Individual Reflection	5%	Max. 750 words (2 pages)	PDF submission via Moodle before Mon, 29 May 2017, 11.55pm (Week 13).
Final Exam	30%	2 hours	Exam period
Total	100%		

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. The assignment requirements document will be available on the course website. The LIC will provide further advice on the assignment in the lecture.

Assessment Component: Group Assignment

This assignment is to be undertaken in groups of 5 (4 or 6 to fill) students 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.

The groups will be set up in Week 2 of the lectures (student in one group need to be in the same lecture stream); the process will be explained in the lecture. Please note that each student is responsible for finding and enrolling in a group, teaching staff will not "allocate" students to groups. Failure to enrol in a group will lead to the student having to complete the full group assignment alone.

To enhance group productivity and reporting, students should explicitly communicate all tasks, meeting minutes, problems, updates, etc. via email (cc'ing all members of the group). The use of Facebook or other social media apps for group communication is discouraged. Ideally, groups should meet face-to-face on campus often; such meetings should be well prepared for, have a defined goal/objective, and be 2-3 hours in length. Students are encouraged to bring their own devices and make use of common room facilities on campus to work on their assignments. Past experiences from students suggest that '1 hour meetings' are typically unproductive. You are advised to maintain

individual diaries, documenting your involvement in the assignment as well as group diaries, documenting meeting times, group members present, decisions taken and so on. Each member of the group **must** submit a **peer assessment form** (properly filled in and SIGNED) **at the completion of each project milestone** of the Group Assignment (further details will be provided in the Group Assignment briefing document).

An overall peer assessment form **must** be submitted on completion of the Group Assignment. Any claims of unequal contribution in the overall peer assessment form **must be** backed with supporting documentation (or evidence) (e.g., emails, communication logs and/or screenshots of text messages being communicated). In cases of unequal contribution claims, individual and group diaries will be a critical source for the adjudication process. This supporting documentation must be submitted **together** with the peer assessment form for an **investigation to be initiated by the LIC** in the presence of **all members**.

Upon receiving the necessary documents from the accuser(s), the LIC will inform the student (through his/her UNSW email account) that a claim of unequal contribution has been filed against him/her. The student will then have **one working day** to submit any supporting documentation in his/her defence against the unequal contribution claim. The LIC will compile all these documents into a single case file.

The LIC will **only** initiate an investigation when all the conditions for a valid claim of unequal contribution have been met. Whenever the LIC decides to initiate an investigation, he/she will notify all members (through the UNSW email accounts) that an investigation has been initiated and schedule an investigation session. **ALL** group members must **make all possible efforts** to attend the investigation sessions scheduled by the LIC. If the group members are not able to find a common time to meet with the LIC after several attempts to schedule the investigation session, the LIC will then be given the discretion to decide on the distribution of each group member's contribution based on **ALL** evidence submitted. The decision by the LIC is then binding and all members have to accept the outcome.

Upon the conclusion of the investigation, be it in the presence of all members or through the LIC's discretion (whichever applies), the mark assigned to each member of the group may be **scaled according to the distribution of each group member's contribution to the task**.

Assessment Component: Individual Reflection

The assignment is to be undertaken individually. Each student will be required to reflect on his or her experience of working on the Group Assignment. Specifically, students will reflect on what they did well as a group and what were their shortcomings; what they learnt through the assignment and how they will strategise differently in future assignment work. The assignment should be submitted as a single PDF file (not more than two pages long) via Moodle. The LIC will provide further advice on the assignment in the lecture.

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 argument in a limited time. The LIC will provide further advice on the exam in the lecture.

4.3 Assessment Format

Assignments need to be submitted in the standard UNSW format. Especially, the assignment needs to include the signed UNSW standard assignment cover sheet. Further details on the format for each assessment item will be provided in the requirements document for the respective assessment item.

4.4 Assignment Submission

Assignments need to be submitted as a PDF soft copy with a signed UNSW cover sheet. Typed signatures are not allowed on the cover sheet. Missing cover sheets or cover sheets without authentic signatures will result in a penalty of 10% of the maximum marks available for assignments. Assignments will be screened with plagiarism-detecting software. The submission of non-original materials will be considered plagiarism and will be pursued.

4.5 Late Submission

Late submission of an assignment is not desirable, disrupt the course timelines, and is 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://student.unsw.edu.au/special-consideration>

Quality Assurance

The Business School 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 Business School programs. All material used for such processes will be treated as confidential.

5 COURSE RESOURCES

The textbooks for this course are:

Dennis, Wixom, Tegarden (2012) *System Analysis & Design* (5e or newer), Hoboken, NJ, USA: Wiley.

Schwalbe (2013) *IT Project Management* (7e or newer), Boston, MA, USA: Cengage.

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

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 myExperience survey is one of the ways in which student evaluative feedback is gathered. In this course, we will seek your feedback through end of semester myExperience surveys and through direct feedback from students to the LIC in class.

7 COURSE SCHEDULE

LECTURE SCHEDULE: INFS3611, IS Project 1 (2017-S1) Lecture: UNSW Business School G23, Tue 4-8 pm			
Week	Topic	References	Other activities / assessment
Week 1 27 February	Bootcamp: Project + Requirements Management	Schwalbe, Ch. 1, 5; Dennis, Ch. 1, 2	Individual + Group assignments released
Week 2 6 March	Project Briefing	Schwalbe and Dennis as needed for project	–
Week 3 13 March	Iteration 1 (Idea and Plan)	Dto.	–
Week 4 20 March	Iteration 1 (Idea and Plan)	Dto.	Individual assignment due (20th March)
Week 5 27 March	Iteration 2 (Requirements)	Dto.	–
Week 6 03 April	Iteration 2 (Requirements)	Dto.	–
Week 7 10 April	Iteration 3 (Design)	Dto.	–
<i>Mid-semester break: Friday 14 – Saturday 22 April inclusive</i>			
Week 8 24 April	NO LECTURE (Tuesday 25 April is Anzac Day public holiday)	–	–
Week 9 1 May	Iteration 3 (Design)	Dto.	–
Week 10 8 May	Iteration 4 (Implementation)	Dto.	–
Week 11 15 May	Iteration 4 (Implementation)	Dto.	–
Week 12 22 May	Final Presentations	–	Group assignment due (22nd May)
Week 13 29 May	Feedback and Review + Exam Preparation	–	Individual reflection due (29th May)