THE UNIVERSITY OF AUCKLAND
Te Whare Wānanga o Tāmaki Makaurau
NEW ZEALAND

BUSINESS SCHOOL

Course Outline 2017
INFOSYS 110: BUSINESS SYSTEMS (15 POINTS)

SEMESTER 2 (1175)

Course Prescription

Explores how information systems and operations management help organisations to innovate, optimise, and deliver value. Examines how the interaction of business, systems, and technologies bring about organisational transformation. Develops the ability to conduct a business analysis of an organisation's vision, industry, strategy, value chain, processes, and systems.

Programme and Course Advice

Restriction: INFOMGMT 191, INFOSYS 120

Goals of the Course

Information Systems have the potential to deliver business value by strategically managing, coordinating, and controlling organisations. Students will explore how Information Systems support transactional, decisional, and collaborative business processes by capturing, processing, storing, and distributing information. Students will also learn about systems to manage the enterprise, customers, and suppliers. Ultimately we want to educate, inspire, and empower tomorrow's leaders to create and apply exponential technologies to address humanity's grand challenges and opportunities.

Learning Outcomes

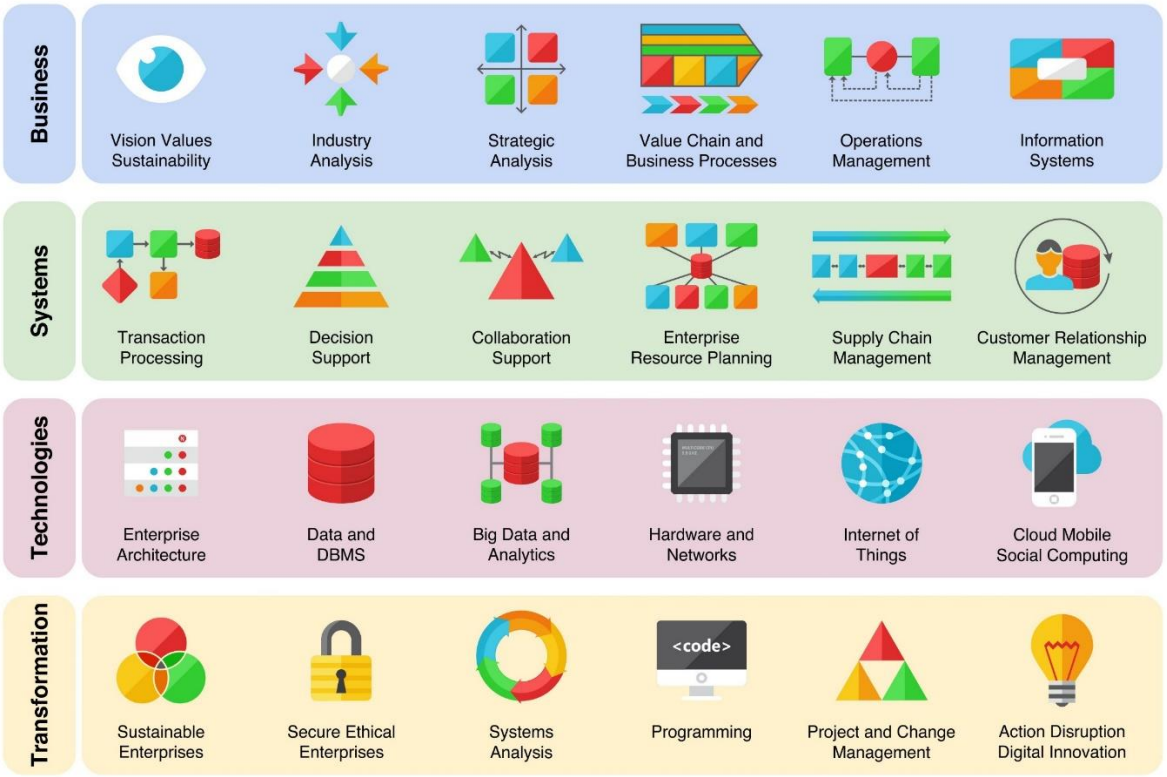
By the end of this course it is expected that the student will be able to:

1. Understand how **information systems** and **operations management** help organisations to **innovate**, **optimise**, and thereby **deliver sustainable value**.
2. Explain the **business**, **systems**, and **technological** components of organisations and how together they can bring about the **transformation** of organisations.
3. Conduct a **business** analysis of an organisation's vision, industry, strategy, value chain, processes, and systems.
4. Recommend an appropriate **systems** landscape (to support an organisation's processes) i.e. transaction processing, decision support, collaboration, enterprise resource planning (ERP), customer relationship management (CRM), and supply chain management (SCM) systems.
5. Recommend an appropriate **technological** architecture and infrastructure (to support an organisation's processes and systems) i.e. databases, data warehousing, data mining, visualisations, software, hardware, networks, and programs.
6. Take advantage of leading edge technologies and **digital innovations** such as big data, business analytics, business intelligence, cloud computing, social computing, and mobile computing to gain competitive advantage.
7. Leverage various processes and mechanisms to bring about the **sustainable transformation** of the organisation, i.e. systems development and project management methodologies, the process of adapting to sustaining and disruptive changes, keeping in mind ethical, security, and sustainability considerations.

Content Outline

The content is guided by our unwavering belief that the teaching of information systems in a business school should be business driven and integrative. Hence we begin the course by looking at **BUSINESSES**: their vision, industry structure, strategy, value chain, and processes. We then look at various **SYSTEMS** and **TECHNOLOGIES** and how they can support the business processes, value chain, strategy, and ultimately the vision of the business. The final part of the course looks at how the interaction of **BUSINESS**, **SYSTEMS**, and **TECHNOLOGIES** could bring about organisational **TRANSFORMATION** and deliver sustainable value.

A roadmap that illustrates the four key components (**business, systems, technologies** and **transformation**) and details the sequence and flow of the course is as follows:



The course schedule that supports the roadmap and learning objectives is as follows:

Week:	Module:	Topic:
Week 01 Hour 01	Business	Roadmap
Week 01 Hour 02		Vision Values Sustainability
		Industry Analysis
Week 02 Hour 01		Strategic Analysis and Value Chain Analysis
Week 02 Hour 02		Business Process Management
Week 03 Hour 01		Operations Management
Week 03 Hour 02		Information Systems
Week 04 Hour 01	Systems	Transaction Processing Systems
Week 04 Hour 02		Decision Support Systems
Week 05 Hour 01		Collaboration Support Systems
Week 05 Hour 02		Enterprise Resource Planning Systems
Week 06 Hour 01		Supply Chain Management Systems
Week 06 Hour 02		Customer Relationship Management Systems
Week 07 Hour 01	Technologies	Enterprise Architecture
Week 07 Hour 02		Data and Database Management Systems
Week 08 Hour 01		Big Data and Analytics
Week 08 Hour 02		Hardware and Networks
Week 09 Hour 01		Internet of Things
Week 09 Hour 02		Cloud, Mobile and Social Computing
Week 10 Hour 01	Transformation	Sustainable Enterprises
Week 10 Hour 02		Secure, Ethical Enterprises
Week 11 Hour 01		Systems Analysis
Week 11 Hour 02		Project and Change Management
Week 12 Hour 01		Labour Day – No class
Week 12 Hour 02		Action, Disruption and Digital Innovation

Learning and Teaching

The material is taught using a combination of lectures and tutorials as follows: 2 x 1 hour lectures and 1 x 1 hour tutorials per week. Students are expected to use at least 7 additional hours each week in reading, preparing for the class, performing online training, working on assignments and so forth.

Active participation is essential, and students will be expected to master material assigned in readings and presented in class. In particular, students are expected to:

1. Gain **knowledge** about information systems through reading, researching, self-learning, and attending lectures and tutorials;
2. **comprehend** how information systems deliver business value through engagement in class and in tutorials;
3. **apply** their knowledge of information systems to the business world and **reinforce** the underlying business and problem solving processes through self-learning, tutorials, games, an assignment, a test, and an exam;
4. **analyse, evaluate,** and **critique** real world cases in class, tutorials, homework, assignment, test, and exam;
5. **synthesise** the knowledge gained and develop information systems designs and solutions in tutorials, homework, and assignment;
6. work in groups to **produce** reports in written, oral and videoed formats; and
7. obtain **feedback** from the lecturer, tutors, and peers.

Teaching Staff

Lecturer 1st Half **Dr Anson Li** Office: 410, Owen G Glenn Building Email: akt.li@auckland.ac.nz	Lecturer 2nd Half & Course Coordinator: **Andrew Eberhard** Office: 451, Owen G Glenn Building Email: a.eberhard@auckland.ac.nz
Course Director: **Andrew Eberhard** Office: 451, Owen G Glenn Building Email: a.eberhard@auckland.ac.nz	

Learning Resources

The required textbook for this course is:

Business Systems: Vision to Action
Edited By: Khushbu Tilvawala, Andrew Eberhard, Ron Tiong, Asfahaan Mirza, Anson Li, Gabrielle Peko, David Sundaram
Publisher: Wiley 2016
ISBN: 9780730330622

This book is only available online via:
http://www.wileydirect.com.au/infosys110uauckland/

INFOSYS110 also has a course book that contains information relevant to the course. You can buy this from the UABS Student Resource Center.

We use a wide variety of online learning resources such as Excel Training, PeerWise, and Vision2Action Games. Links to these are on Canvas.

Assessment

Project		10%
Tutorials		04%
Learning Journals		10%
Practical		16%
Test		20%
Final Exam	(3 hours, restricted open book)	40%
Total		100%

Note: Students **must pass** the final exam to be eligible to pass the course.

The broad relationship between these assessments and the course learning outcomes is as follows:

Learning Outcome	Project	Tutorials	Learning Journals	Practical	Test	Exam
1	X	X	X	X	X	X
2	X	X	X	X	X	X
3	X	X	X	X	X	X
4	X	X	X		X	X
5	X	X	X			X
6	X	X	X			X
7	X	X	X			X

Inclusive Learning

Students are urged to discuss privately any impairment-related requirements face-to-face and/or in written form with the course coordinator/lecturer and/or tutor.

Student Feedback

Student feedback is important to us and has been used to improve the course from semester to semester. Examples of useful suggestions that have resulted in improvements include (but are not limited to):

- Refinements to the course schedule/roadmap and content.
- Changes to the delivery of material

This semester you may be asked to complete evaluations on the teaching of the course, both in lectures and in tutorials. Please note that you do not have to wait until these evaluations are conducted in order to provide feedback. If there is something that you think we could improve then please let us know as soon as possible.

Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting his or her learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the world-wide web. A student's assessed work may be reviewed against electronic source material using computerised detection mechanisms. Upon reasonable request, students may be required to provide an electronic version of their work for computerised review.

In the event of an unexpected disruption

We undertake to maintain the continuity and standard of teaching and learning in all your courses throughout the year. If there are unexpected disruptions the University has contingency plans to ensure that access to your course continues and your assessment is fair, and not compromised. Some adjustments may need to be made in emergencies. In the event of a disruption, the University and your course coordinators will make every effort to provide you with up-to-date information via Canvas and the university web site.