UNIT OUTLINE

Unit Code and Name of Unit
CPRO306 – Capstone Project

SECTION 1 – GOVERNANCE AND GENERAL STUDENT INFORMATION

1.1 Administrative details:

Associated higher education awards	Duration	Level	Core or Elective
Bachelor of Information Technology	One trimester	3rd year	Core
Bachelor of Information Technology with a Specialisation in (Cyber Security)	One trimester	3rd year	Core

1.2 Kent Policies and Procedures

All students should familiarise themselves with the Kent Student Handbook and separate Kent Policies and Procedures located on the Kent Website Kent Website *MyKent Student Link*> *Student Policies and Forms– Student Login Required*) to understand the academic, management, administrative and student responsibilities related to their course of study at Kent. As the Kent Policies and Procedures are subject to regular review, students should regularly log-in to the Kent Website *MyKent Student Link* to access the current version of the Policies and Procedures related to their course of study.

During the Student Orientation Program offered to all new students information is provided giving the location of these documents and reference is made to Policies and Procedures in the Kent Student Handbook.

1.3 Policy on Academic Misconduct

All students should refer to the **current version** of the Kent **Academic Misconduct Policy & Procedures** (Kent Website *MyKent Student Link*> *Student Policies and Forms > POLICY– Academic Misconduct Policy & Procedures – Student Login Required).*

Academic misconduct includes cheating, plagiarism or other act or omission to act or attempted act engaged in by a student that may result in unfair or unjustified academic advantage to one or more individuals.

Cheating means fraud, dishonesty or deceit of any kind in relation to an assessment item.

Plagiarism the presentation of work or ideas of others as one's own without due acknowledgement and referencing. Each student is, therefore, required to acknowledge all direct quotations (irrespective of the source), ideas, paraphrased writings and statistical information. All students will be made aware of what constitutes academic misconduct through:

- Orientation Program presentations
- Kent website: What happens if I commit Academic Misconduct? http://kent.edu.au
- Lecturers at the beginning of each Unit
- Academic Learning Support (ALS) Unit staff

Detecting Academic Misconduct

If a Lecturer doubts the authorship of a student's work the Lecturer will review the report from 'Turnitin' to check the originality of the assessment. The Lecturer may also require the student to provide evidence of the development of the work before final submission.

In accordance with Kent *Academic Misconduct Policy & Procedure*s all alleged academic misconduct cases will be reported to the Associate Dean and be thoroughly investigated. The Policy also provides ***severe penalties*** for any form of academic misconduct. Students must uphold academic integrity to the highest possible standard when completing any assessment task.

1.4 Grades

Refer to the Kent Assessment Policy & Procedures (Kent Website *MyKent Student Link> Student Policies and Forms > POLICY– Assessment Policy & Procedures – Student Login Required):*

High Distinction	85%-100%
Distinction	75%-84%
Credit	65%-74%
Pass	50% -64%
Fail	0%-49%
Conceded Pass	May be awarded to students completing their final trimester of study who have passed all other units except for one unit with the final mark of that Unit in the range of 45% - 49%.
Supplementary Pass	Awarded to students granted a supplementary assessment and successfully completing it by obtaining a result 50% or higher.
Absent Fail	No assessment task completed

1.5 Assessment Marking Guide

Kent provides guidelines for Assessment Marking to assist students to understand the requirements and standard criteria to be met in order to achieve successful outcomes at the various grade levels for all Kent assessment tasks during their course of study. Designated Kent staff undertaking marking of student assessment tasks apply these guidelines to the grading of all student assessment tasks.

All students can access the Kent Assessment Marking Guide via the Kent Website *MyKent Student Link> Moodle– Student Login Required.*

For detailed information on assessment tasks please read the Assessment Briefs available for the Unit of study in the Moodle unit page **at my.kent.edu.au.**

1.6 Submission of Assignments

All assignments must be submitted **online in Moodle using the link provided - excluding tutorial work. Assignment submissions** can be made multiple times up until the due date to obtain a 'Turnitin' similarity check. The last version of the assignment submitted online in Moodle on or before the due date will be considered as the final version of the assignment. A student will be required to electronically acknowledge a declaration as part of the submission of the assignment. Students should keep a copy of the assignment for their own personal records.

'Turnitin' is an originality checking and plagiarism prevention service that checks writing for citation mistakes or inappropriate copying. The software checks against its own database or previously submitted work, against academic and non-academic journals and against the content of other websites to identify plagiarism and cheating.

Except for some forms of assignment (e.g. hand-written tutorial work that forms part of class participation marks), all assignments MUST be submitted electronically in **the required format as specified in the Unit Outline**. Please be aware that any assignments submitted in a non-prescribed format will not be accepted for marking and will lose marks until it is presented in the required format.

Kent Academic Learning Support (ALS) staff are available to assist students with understanding assignments and all other assessment-related matters. For assistance and to book a one-on-one meeting please email the ALS Co-ordinators at your campus location (Sydney ALS.SYD@kent.edu.au; Melbourne ALS.MELB@kent.edu.au). For on-line help and support, please go to and navigate Academic Learning Support page available in Moodle.

1.7 Late Submission of Assessments

Students should refer to the (Kent Website *MyKent Student Link> Student Policies and Forms > POLICY– Assessment Policy & Procedures – Student Login Required)* for the current Kent **Assessment Policy & Procedures** for details regarding late submission of Assessment Tasks. Application forms for Assignment Extension can also be accessed from this Website location.

SECTION 2 – GRADUATE ATTRIBUTES AND COURSE LEARNING OUTCOMES

2.1 Graduate Attributes

*Specific Graduate Attributes (GAs) are identified for **each individual Unit** in the course. However, all Lecturers should aim to include these objectives in the delivery of their classes.*

1. Critical thinker able to solve complex problems logically and analytically in the context of their discipline.
2. Able to recognise their responsibility to society and to apply ethical perspectives to informed decision making.
3. Globally and culturally aware when operating in the global business community.
4. Able to utilise information and communication and other relevant technologies effectively.
5. Able to work collaboratively across and within cultural boundaries.
6. Able to work independently and be self-directed learners.
7. Able to apply their discipline specific knowledge and skills to local, national and international contexts.

This unit contributes to the attainment of Graduate Attributes Numbered: 1, 2, 4, and 5.

2.2 Course Learning Outcomes

This Unit contributes to Bachelor of Information Technology Course Learning Outcomes (CLOs) 1, 2, 3, 4, 5 and 6 from the following listed:

CLO Number	CLO Details
1	*Information strategy, Business strategy and planning and Technical strategy and planning* a) To gather, critically analyse, manage and present in meaningful ways information and data, and b) To devise risk assessments when solving complex problems in local and global business environments.
2	*Business change implementation and Business change management* a) To appraise and interpret the requirements of clients in order to solve complex business problems by designing and testing system modelling approaches, and b) To manage the resulting system projects, their implementation and maintenance while adhering to quality standards.
3	*Systems development and User experience* a) To act as an ethical practitioner while demonstrating skills in data analysis, database design, system design, web design and software development and testing, b) To implement and document user experience analysis, design and testing.
4	*Service design, Service transition and Service operation* a) To monitor, research and interpret the fast changing and global world of information technology in terms of hardware, networks, software, and tools, b) To implement change management in existing systems when required.
5	*Communication skills* a) To prepare design and system documentation and written reports b) To elicit requirements from clients, discuss intermediate solutions and present oral reports as individuals and in teams.
6	*Teamwork and self management skills* a) To work collaboratively in small teams on a variety of large and small projects to produce models, software, documentation and reports b) To take responsibility for their own time management delivering quality required material on time in dynamically changing technological and communication contexts whether as an individual or member of a small team.

SECTION 3 – UNIT DELIVERY REQUIREMENTS

3.1 Student Feedback

Kent is committed to continual improvement in all aspects of its educational delivery. For this reason, Kent regularly evaluates teaching and Unit content and uses that feedback to enhance the delivery of the Unit in following Trimesters.

Feedback from students in previous Trimesters has resulted in the following improvements being made:

- Cyber Security related requirements included for students of BIT with a specialization in Cyber Security.
- Rubrics updated for assessments.

3.2 Unit Learning Outcomes (ULO)

This Unit contributes to Unit Learning Outcomes (ULO) 1, 2, 3, 4, 5 and 6 from the following listed

AQF Descriptor	ULO Number	By the end of the unit, student should be able to
Knowledge	**1**	Critically analyse the methods and techniques used when seeking to apply information technology at the corporate level
Skills	**2**	Identify and present systematically the requirements for an information system to solve business problem in a large and complex organisation
	3	Design, develop, test and evaluate an appropriate systems solution
Applications of Skills and Knowledge	**4**	Identify and resolve critical technical issues with minimal supervision
	5	Critically reflect on approaches taken and performance of the team in the development of a solution to an applied project.
	6	Evaluate the project process and outcomes, including team management, against the project proposal.

3.3 Unit Overview

In the final two trimesters of study, this unit provides students with the opportunity to apply the knowledge and skills they have gained throughout the course, through the design, development, implementation and evaluation of an information system. This unit employs a cyber security risk assessment to formally review the risks posed to the developed information system assets, the likelihood of different risks occurring, and the potential outcomes. A case study approach is used in the design and development of a complex set of software services for an information system in a commercial application domain with a particular focus on the integration of new and legacy systems. Students are required to present their project findings and contribute in a professional andcommitted manner to the work of their team. The major case study may involve a real client or an academic acting as a client. It will involve learning about the particular business context and the latest relevant tools and technologies appropriate for the system solution.

SFIA: INAN4, COPL4, PRMG4, REQM3, DESN3, PROG4, TEST3, UNAN3, SLMO2, SEAC4, ASUP3

3.4 Delivery Mode and Attendance

All units are delivered face-to-face.

All students are expected to attend scheduled classes– Students are advised there are Kent Units that specifically identify classes as mandatory and contribute to the final grade for that Unit. International students on a student visa must maintain a full-time study load and meet both attendance and academic progress requirements in each study period. Satisfactory attendance for International students is defined as maintaining at least an 80% attendance record.

3.5 Student workload

Using the table below, indicate the expected student workload per week for this Unit.

No. timetabled hours per week*	No. personal study hours per week**	Total workload hours per week***
6	18	24

** Total time spent per week at lectures, tutorials, clinical and other placements etc.*
*** Total time students are expected to spend per week in studying, completing assignments, etc.*
**** That is, * + ** = workload hours.*

3.6 Pre-requisites and Co-requisites

Are students required have undertaken a prerequisite or co-requisite Units for this Unit?

☒ Yes ☐ No

If YES, provide details of the prerequisite or co-requisite requirements below.

Pre-requisites:
SENG205 Software Engineering, DSAA204 Data Structures and Algorithms, DCAN202 Data Communications and Networking, PAQM321 Project and Quality Management, DWIN309 Developing Web Information Systems

Co-requisites:

None

3.7 Assessment Tasks

Learning Outcome Mapping			Assessment tasks		
Graduate Attribute #	**Course Learning Outcome #**	**Unit Learning Outcome #**	**Type ***	**When assessed – year, session and week**	**Weighting**
			The assessment for this entire unit will be various stages of a team consultancy-based project developed on a real business problem for an industry client. Ideally the project will have a global nature and the solutions will reflect the implications of this. It is also expected that the specifications will change, and students will have to adjust their solutions to reflect this. Students will be formed into multicultural teams to reflect the nature of the IT industry. Students will be assessed as a team but also individually using tools such as SPARK^{PLUS} for each of the components of the assessment.		

Learning Outcome Mapping			Assessment tasks		
Graduate Attribute #	**Course Learning Outcome #**	**Unit Learning Outcome #**	**Type ***	**When assessed – year, session and week**	**Weighting**
1, 2, 4, 5	1a), 1b) 2a) 3a) 4a) 5a), 5b) 6a)	1, 2, 3, 4, 5,6	**Task 1 – Weekly Project Review** Weekly tutor/client meeting to discuss progress and problems. The meetings also provide an opportunity for the tutor/client to help the teams develop sound information systems design, development and project management processes based on their previous studies. Time given: 1 hour.	Weekly from Week 1	0% (feedback only)
1, 2, 4, 5	1a), 1b) 2a) 3a) 4a) 5a), 5b) 6a)	1, 2, 3, 4, 5,6	**Task 2 – Interim SRS Report** Informal dot-point report of progress to date for client	Week 3	5%
1, 2, 4, 5	1a), 1b) 2a) 3a) 4a) 5a), 5b) 6a), 6b)	1, 2, 3, 4, 5,6	**Task 3 - Final SRS Report** In teams of four, students are required to design an information system from a given complex case study and project manage the process. Deliverables are related documentation.	Weeks 5	35%
1, 2, 5	1a) 4a) 5a) 6a), 6b)	1, 2, 3, 4, 5	**Task 4 – SRS Presentation** 30–45-minute formal presentation of project design findings; assessed both individually and as a group.	Weeks 6	10%
1, 2, 4, 5	1a), 1b) 2b) 3b) 4b) 5a), 5b) 6b)	1, 2, 3, 4, 5, 6	**Task 5 – Mid project deliverables** Informal dot-point report System development plan along withsystem requirement, database design and User interface design report.	Week 9	15%
1, 2, 4, 5	1a), 1b) 2a), 2b) 3a), 3b) 4a), 4b) 5a), 5b) 6a), 6b)	1, 2, 3, 4, 5	**Task 6 - End of project deliverables** In teams of four, students are required to build, test and evaluate a working information system from a given complex case study and project manage the development and client requests for change. Deliverables are a tested working system and related documentation.	Weeks 11	20%

1, 2, 5	1a) 4a) 5a) 6a), 6b)	1, 2, 3, 4, 5	**Task 7 – Formal Demonstration** 1 – 3 hr. Formal presentation and the demonstration of the developed software with its functionalities and non-functional requirements; assessed both individually and as a group.	Weeks 12	15%

Note: Details for each assessment are elaborated in the Assessment Briefs.

3.8 Prescribed and recommended readings:

Prescribed Text:
No prescribed text for these units but students will be expected to use the texts from all the prerequisite units.

Recommended Readings:
Readings relevant to the real-life domain of the chosen industry project.

3.9 Any specialist facilities and/or resources required:

Access to appropriate programming languages such as a Java environment, PHP, JavaScript, HTML5, CSS, MYSQL, MS Access, (depending on the solution style chosen for the project), MS Project. These are part of Kent's standard build and will have been used in the relevant prerequisite units.

3.10 Referencing Style

All Assessment tasks for this Unit must use the **Harvard (author-date)** referencing style.

The Academic Learning Support (ALS) Unit can provide student assistance if required. Commencing Week 3 of each Trimester the ALS Unit will be conducting Academic Learning Support Workshops for all students.

3.11 Trimester Study Schedule

Week Number	Module Topic	Chapter Reference in Prescribed Text or other Reference for this Unit	Events and submission
Week 1	Introduction		Task 1
Week 2	Research Skills: Information gathering, writing and citations		Task 1
Week 3	Project review session with tutor		Task 1 Task 2 – Interim SRS Report
Week 4	Project review session with tutor		Task 1
Week 5	Report writing and oralpresentations		Task 1 Task 3 Final SRS Report
Week 6			Task 1 Task 4 – SRS Presentation
Week 7	Research Skills: Information gathering, writing and citations		Task 1

Week 8	Project review session with tutor		Task 1
Week 9	Project review session with tutor		Task 1 Task 5 – Mid project deliverables
Week 10	Project review session with tutor		Task 1
Week 11	Project review session with tutor		Task 6 - End of project deliverables
Week 12	Demonstration		Task 7 – Formal Demonstration
Week 13	Study Week		Task 7 – Formal Demonstration
Week 14	Exam Week		