COMP6443 – Web Application Security and Testing

Created: 11 Feb 2016   Proposal Last Updated: 11 Feb 2016

Offering Details:

Key Details and Contacts

Key Course Details

Course Name (Official)	Web Application Security and Testing
Standard Name (SIMS)	Web Application Security
Course Code	COMP6443
Units of Credit (UOC)	6
Career	Hybrid

Course Offerings

Offering Number	Career	Course Code
1	UG	COMP6443
2	PG	COMP6443

Level	3
First Semester and Year the Course will be offered	2016/2017 Summer Term
Does this new course replace another existing course?	No

Contact Details

Proposal Proponent

Name	Email	Role
Richard Buckland	z9700463@unsw.edu.au	Associate Professor, School of Computer Science and Engineering

Proposal Author(s)	Not specified

Proposal Contact

Name	Email	Role
Richard Buckland	z9700463@unsw.edu.au	Associate Professor, School of Computer Science and Engineering

Optional Additional Endorsers	Not specified
Academic Unit responsible for course	School of Computer Science and Engineering
Parent Academic Unit	Faculty of Engineering

Proposal Concept

Summary of Proposal

Summary of Proposal	This is a specialist security course in web application design and testing. Web applications are the predominant source of software vulnerabilities exploited in cyber attacks. Coverage is - types of vulnerabilities, categories of attacks, secure engineering design principles, auditing, and testing.

Justification for proposal

Justification for Proposal	This course forms part of the new cyber security stream for Computer Science Students. The stream has been developed as a collaboration between UNSW and the CBA. The CBA are funding PhD scholarships, a full time lecturing position, and a cyber security lab as part of the partnership. This course is one of the core courses in the cyber security stream, but it would also be attractive to general computing and information systems students who will be involved in designing and maintaining web sites, web applications, web services, or web based mobile applications. There will likely be a strong demand from computing masters students also.

Anticipated Enrolments

Anticipated Enrolments for next 3 years	2017	2018	2019
	150	200	250

Attachments

Attach documentation to this proposal	None attached

Learning and Teaching

Learning & Teaching development and support

Are there Learning & Teaching space requirements for the course beyond those that can be accommodated by CATS spaces?	Yes
Learning & Teaching space requirements and whether or not existing specialist spaces can meet these needs	Students will need access to isolated secure computer labs running specific software. Unless technologies change, the standard UNSW computing labs, running the SOE, are not suitable. CSE is building a security lab which will be suitable for this course.
Have you discussed with the Learning Centre and Learning and Teaching what language and/or academic skills development resources and/or which teaching and learning strategies might be suited to this course?	Yes
Details of the language and/or academic skills development resources and/or which teaching and learning strategies are required for this course	This course contains considerable online teaching and learning, supplimeneted by face to face lecture/seminar sessions. I have had extensive discussions with the LTU about ways in which this can be done. Teachers of this course will need to be trained in creating and facilitating online collaborative learning. I am able to conduct this training myself so no additional rescues will be required for this.
Are many students in this course at a key transition point where their academic skills are likely to need development, e.g. from one kind of educational institution or type of program to another or into education after a significant break?	No

Consultation

Internal consultation

Internal Consultation	**Consultants**	None specified
	Details	None specified
	Attachments	None specified

External consultation

External Consultation	**Consultants**	None specified
	Details	None specified
	Attachments	None specified

Interested Parties	Not specified

Related Proposals

Related Proposals	Code	Proposal Name	Type	Date	Status
	COMP6442	Extended Security Engineering	New Course (HY)	Feb 2016	Draft Proposal
	COMP6444	Extended Web Application Security and Testing	New Course (HY)	Feb 2016	Draft Proposal
	COMP6445	Digital Forensics	New Course (HY)	Feb 2016	Draft Proposal
	COMP6446	Extended Digital Forensics and Incident Response	New Course (HY)	Feb 2016	Draft Proposal
	COMP6447	System and Software Security Assessment	New Course (HY)	Feb 2016	Draft Proposal
	COMP6448	Security Engineering Masterclass	New Course (HY)	Feb 2016	Draft Proposal
	COMP6450	Security Engineering Professional Practice	New Course (HY)	Feb 2016	Draft Proposal

Endorsements and Comments

Endorsement history	No endorsements have been recorded for this proposal (yet).