HORT90040 Advanced Plant Breeding and Improvement

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2014.
Time Commitment:	Contact Hours: Twenty-four hours lectures and 36 hours practical work Total Time Commitment: Not available
Prerequisites:	

Subject	Study Period Commencement:	Credit Points:
BIOL10005 Genetics & The Evolution of Life	Semester 2	12.50
BTCH20002 Biotechnology	Semester 2	12.50

Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Contact:	**Melbourne School of Land & Environment Student Centre** Ground Floor, Melbourne School of Land & Environment (building 142) *Enquiries* Phone: 13 MELB (13 6352) Email: **13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)**
Subject Overview:	Case studies are used to illustrate the steps involved in taking knowledge from research laboratory or breeding trials and producing and releasing novel crop varieties. This subject will include a small research project in an area chosen by each student.
Learning Outcomes:	The objective of this subject is to extend the participant's ability to: # comprehend many of the issues, concepts and difficulties involved in developing new crop varieties through the use of biotechnology to complement and enhance conventional breeding methodologies. # to design breeding strategies for the improvement of crop plants # have an in-depth understanding of regulatory and commercialisation pathways for genetically modified food crops from the farm gate to market # have extended their abilities in both oral and written scientific communication # have developed experience in the planning and execution of experiments
Assessment:	Three-hour end-of-semester examination (60%), written project report (4000 words, 25%), oral research presentation (15%).
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Related Course(s):	Graduate Diploma in Urban Horticulture Master of Agricultural Science Master of Urban Horticulture Postgraduate Diploma in Agricultural Science
Related Majors/Minors/ Specialisations:	Honours Program - Agricultural Science