Plant and Soil Science

Year and Campus:	2016
Coordinator:	Ms Ros Gall
Contact:	Currently enrolled students: **Contact Stop 1 (http://students.unimelb.edu.au/stop1)**
Overview:	This major will provide graduates with a depth and breadth of understanding in plant and soil science in the context of agricultural production systems. Students of this major will study subjects in soil biology and management, and plant health for growth and production. Students will also gain a detailed understanding of the drivers of plant industries and how management strategies can optimise yield and product quality. This major will be available to students enrolling in first year of the B Ag in 2016. The subjects comprising this new major are subject to review in 2016, and may be altered for 2017.
Learning Outcomes:	On completion of this major, students will have : # a strong understanding of the determinants of soil and plant health # an understanding of the structure and function of plant production industries in Australia and around the world, including the determinants of production and their implications for land management # the ability to critically evaluate options, and formulate plans that will ensure long term industry and environmental sustainability; # an understanding of current issues facing plant production systems # the skills to effectively analyse, and scientifically evaluate problems relating to plant production industries # the ability to communicate and discuss scientific and industry information with relevant stakeholders;
Structure & Available Subjects:	If studying the entire year at Parkville students in the Plant and Soil Science major will study five core subjects and choose three elective subjects. If students choose to study the second semester at the Dookie Campus they will have eight core subjects to study.
Subject Options:	**Core Subjects - Year Two**

Subject	Study Period Commencement:	Credit Points:
EVSC20002 Soil and Water Resources	Semester 2	12.5
AGRI20028 Research Methods for Life Science	Semester 1	12.5
AGRI20026 Plant Growth Processes	Semester 1	12.5
VETS20016 Biochemistry in Animal Systems	Semester 1	12.5

Optional Core Subject - Year Two

Students should select one of the following two subjects as their fifth core subject:

Subject	Study Period Commencement:	Credit Points:
AGRI30031 Crop Production and Management	Semester 2	12.5
AGRI30029 Ecology & Management of Grazing Systems	Semester 2	12.5

Elective Subjects - Year Two

Subject	Study Period Commencement:	Credit Points:
VETS20017 Principles of Production Animal Health 1	Semester 1	12.5

VETS20018 Principles of Production Animal Health 2	Semester 2	12.5
AGRI20003 Sustainable Food Systems	June	12.5
AGRI20033 Agricultural and Resource Economics	Semester 2	12.5
AGRI20024 Industry Internship	Summer Term, Semester 1, Semester 2	12.5
UNIB20012 Water for Sustainable Futures	Semester 1	12.5
AGRI30029 Ecology & Management of Grazing Systems	Semester 2	12.5
AGRI30031 Crop Production and Management	Semester 2	12.5
DASC20010 Applied Animal Physiology	Semester 2	12.5
DASC20012 Comparative Nutrition and Digestion	Semester 1	12.5

Dookie Option

Students will also have the option of studying Semester 2 of Year 2 at the Dookie Campus. A core program will be available for this option incorporating subjects from the core and elective subjects above.

Year Three - Core Subjects

Students should study the following three core subjects:

Subject	Study Period Commencement:	Credit Points:
AGRI30034 Applied Industry Studies	Not offered 2016	25
AGRI30032 Plant Health and Improvement	Semester 1	12.5
AGRI30016 Irrigation and Water Management	June	12.5

Year Three - Elective Subjects

Students should select their remaining subjects from the elective list below:

Subject	Study Period Commencement:	Credit Points:
AGRI30030 Livestock Production Systems	Semester 1	12.5
AGRI30012 Food & Water:Global Issues Local Impacts	September	12.5
AGRI30031 Crop Production and Management	Semester 2	12.5
AGRI30029 Ecology & Management of Grazing Systems	Semester 2	12.5
AGRI30033 Farm Management Economics	Semester 1	12.5
AGRI30003 Agricultural Systems Analysis	Semester 2	12.5
VETS30011 Animal Disease Biotechnology 1	Semester 1	12.5
VETS30012 Animal Disease Biotechnology 2	Semester 2	12.5
VETS30028 Production Animal Health Applications	Year Long	25
DASC30006 Applied Animal Reproduction & Genetics	Semester 1	12.5
VETS30028 Production Animal Health Applications	Year Long	25
DASC30015 Animal Welfare and Ethics	Semester 2	12.5

Related Course(s):	Bachelor of Agriculture