

## FRST90041 Forest Operations

<b>Credit Points:</b>	12.5
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2015. Mix mode teaching involving online materials and assessments and one week of intensive field study at the University of the Sunshine Coast from July 6-10, 2015
<b>Time Commitment:</b>	Contact Hours: Equivalent of 50 hours of lectures, practicals and tutorials or self-paced programs, delivered in a combination of on campus & online teaching modes. Total Time Commitment: 170 hours
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. This course requires all students to enrol in subjects where they must actively and safely contribute to field excursions and laboratory activities. Students who feel their disability will impact on meeting this requirement are encouraged to discuss this matter with the Subject Coordinator and Disability Liaison <a href="http://services.unimelb.edu.au/disability/">http://services.unimelb.edu.au/disability/</a> students email: <a href="mailto:disability-liaison@unimelb.edu.au">disability-liaison@unimelb.edu.au</a>
<b>Contact:</b>	<p><b>Graduate School of Science</b></p> <p><i>Enquiries</i></p> <p>Phone: 13 MELB (13 6352)  Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (<a href="mailto:13MELB@unimelb.edu.au">mailto:13MELB@unimelb.edu.au</a>)</p> <p><i>Coordinator</i></p> <p>Mark Brown <a href="mailto:mwbrown2@usc.edu.au">mwbrown2@usc.edu.au</a> (<a href="mailto:mwbrown2@usc.edu.au">mailto:mwbrown2@usc.edu.au</a>)</p>
<b>Subject Overview:</b>	This subject provides an overview of forest and plantation harvesting operations including mechanized harvesting methods, cable yarding, transportation systems, forest road management, and harvest planning. Harvesting and operations cost assessment techniques, and applications of planning software to help frame problems and provide information for contemporary forest and plantation management. Students will apply the information learned in the course to develop a harvesting plan and present the plan.
<b>Learning Outcomes:</b>	<p>At the end of the course students should be able to:</p> <ul style="list-style-type: none"> <li># Describe the capabilities and limitations of harvesting, transportation and operations equipment and systems that are used in different native forest and plantation applications</li> <li># Identify the appropriate variables that affect harvesting productivity, cost and safe working conditions</li> <li># Obtain operations productivity rates, calculate machine rates, and harvesting cost and manage value in a forest supply chain</li> <li># Use current harvesting software to aid decision making, and forest or plantation planning</li> <li># Complete a forest/plantation harvesting plan that includes all aspects of roads and transportation planning, tree harvesting, and meeting environmental, regulatory, and social management objectives.</li> </ul>
<b>Assessment:</b>	2 individual assignments - 25% (250 words each) due at the end of the Intensive subject, Field day report (500 words) - 10% due at the end of the Intensive subject, Comprehensive exam of lecture material - 25% (1.5 hours) last day of the Intensive subject, Major group assignment (1500 words + 10 minute presentation) - 40%, presentation last day of Intensive subject and report due 3 weeks after the Intensive subject.

<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Links to further information:</b>	<a href="http://graduate.science.unimelb.edu.au/master-of-forest-ecosystem-science">http://graduate.science.unimelb.edu.au/master-of-forest-ecosystem-science</a>
<b>Related Course(s):</b>	Graduate Diploma in Forest Systems Management Master of Forest Ecosystem Science