



# Learn how to accomplish sustainable forest management objectives with economical, environmental, and socially acceptable forest operations

## 220720 Forest Operations

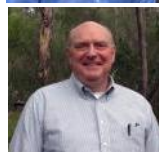
This subject provides an overview of native forest and plantation harvesting operations including mechanized harvesting methods, cable yarding, transportation systems, forest road management, and harvest planning. The subject includes harvesting and operations cost assessment techniques, and applications of harvest planning software to help frame problems and provide information for contemporary native forest & plantation management practices. Students will apply the course information on case projects that involve the preparation and presentation of a harvesting and transportation plan.

### Topics covered

- Capabilities and limitations of harvesting, transportation and operations equipment, and systems that are used in different native forest and plantation applications
- Identification of site-specific variables that affect harvesting productivity, cost, and safe working conditions
- Procedures for determining forest operations productivity rates, calculations of machine rates, and harvesting costs
- Applications of forest operations planning software to aide decision making
- Process for gathering information and completing a native forest (re-growth thinning)/plantation harvesting plan that includes all aspects of roads and transportation planning, tree harvesting, and meeting environmental, economic, regulatory, and social management objectives

### Course coordinators

- Mr Mark Brown ([mwbrown@unimelb.edu.au](mailto:mwbrown@unimelb.edu.au))
- Dr Loren Kellogg ([lkellogg@unimelb.edu.au](mailto:lkellogg@unimelb.edu.au))





## 2011 Study Dates and Locations

- Online lectures 31 May to 23 June 2011 (3 – 90 min session per week)
- Intensive teaching over 5 days from 4 July to 8 July at the Creswick Campus
- Study materials will be available from May via the Learning Management System
- Subject assessments due by 8 July 2011

## Teaching plan

This subject will be taught using a combination of lectures, practical exercises, a field visit and group project. Contact time will be equivalent to 24 hours of lectures and 36 hours of practical work

Where possible, operations managers and practitioners will contribute by providing guest lectures and demonstrations

Assessment will be based on three assignments and an exam to demonstrate an understanding important techniques presented as well as a group project to prepare and present a harvest plan to a land owner/manager.

## Student costs

In addition to tuition fees, accommodation options for 2 weeks in Creswick start from \$220

## Enrolment options

- This subject is normally offered through the Master of Forest Ecosystem Science but is available to students from other courses subject to their Course Coordinator's approval.
- The subject may also be taken as an individual subject through the University's Community Access Program (CAP). This may be in assessed or non-assessed mode. For further information see: <http://www.unimelb.edu.au/community/access/> or contact [forests-info@unimelb.edu.au](mailto:forests-info@unimelb.edu.au)

## Further information

Information about this subject and the Master of Forest Ecosystem Science is available at:

<http://www.forests.unimelb.edu.au>

