STAT3039
Special Topics in Statistics

The course will involve specialised readings on the bootstrap and related methods.

<table>
<thead>
<tr>
<th>Mode of Delivery</th>
<th>On campus, weekly meetings with instructor</th>
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<tbody>
<tr>
<td>Prerequisites</td>
<td>None</td>
</tr>
<tr>
<td>Incompatible Courses</td>
<td>None</td>
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<tr>
<td>Course Convener:</td>
<td>Professor Michael Martin</td>
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<tr>
<td>Office hours for student consultation:</td>
<td>By appointment</td>
</tr>
<tr>
<td>Research Interests</td>
<td>Bootstrap and resampling methods</td>
</tr>
<tr>
<td>Relevant administrator if any (optional)</td>
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<td>Lecturer(s)</td>
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SEMESTER 1
2016
COURSE OVERVIEW
Course Description (optional)
The course will involve specialised readings on the bootstrap and related methods.

Learning Outcomes
To become familiar with bootstrap methodology through selected reading from the monographs by Efron and Tibshirani (*An Introduction to the Bootstrap*), Davison and Hinkley (*Bootstrap Methods and Their Application*) and Hall (*Edgeworth Expansions and the Bootstrap*).

Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
<th>Date for Return of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Final Report</td>
<td>100%</td>
<td>27/5/16</td>
<td>Release of marks</td>
</tr>
</tbody>
</table>

Research-Led Teaching
The course summarises research in the area of bootstrap methodology.

Feedback
Staff Feedback
Written comments and verbal comments on final report.

Student Feedback
ANU is committed to the demonstration of educational excellence and regularly seeks feedback from students. One of the key formal ways students have to provide feedback is through Student Experience of Learning Support (SELS) surveys. The feedback given in these surveys is anonymous and provides the Colleges, University Education Committee and Academic Board with opportunities to recognise excellent teaching, and opportunities for improvement.

For more information on student surveys at ANU and reports on the feedback provided on ANU courses, go to http://unistats.anu.edu.au/surveys/selt/students/ and http://unistats.anu.edu.au/surveys/selt/results/learning/

Policies
ANU has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University’s academic standards, and implement them. You can find the University’s education policies and an explanatory glossary at: http://policies.anu.edu.au/

Students are expected to have read the Academic Misconduct Rules 2014 before the commencement of their course.

Other key policies include:
- Student Assessment (Coursework)
- Student Surveys and Evaluations
ASSESSMENT REQUIREMENTS

The ANU is using Turnitin to enhance student citation and referencing techniques, and to assess assignment submissions as a component of the University's approach to managing Academic Integrity. For additional information regarding Turnitin please visit the ANU Online website.

Students may choose not to submit assessment items through Turnitin. In this instance you will be required to submit, alongside the assessment item itself, copies of all references included in the assessment item.

Assessment Tasks

Assessment Task 1: Final Report
Details of task: A final report, in the form of an academic review article, will be submitted. The article will be a high-level summary of bootstrap methodology and may include both theoretical and computational developments illustrating certain cases.
Word limit (where applicable): 10 pages
Value: 100%
Presentation requirements: Paper or electronic
Estimated return date: 27/5/2016

Examination(s)
There are no examinations for the course.

Hard Copy Submission: Please provide a hard copy of your final report direct to the Lecturer. Assignments must include the cover sheet available [here](http://students.anu.edu.au/studentlife/). Please keep a copy of tasks completed for your records.

Extensions and penalties
Extensions and late submission of assessment pieces are covered by the Student Assessment (Coursework) Policy and Procedure.

The Course Convener may grant extensions for assessment pieces that are not examinations or take-home examinations. If you need an extension, you must request it in writing on or before the due date. If you have documented and appropriate medical evidence that demonstrates you were not able to request an extension on or before the due date, you may be able to request it after the due date.

Returning assignments
The report can be returned at the end of the semester, after marks are released to students.

Scaling
Your final mark for the course will be based on the raw marks allocated for each of your assessment items. However, your final mark may not be the same number as produced by that formula, as marks may be scaled. Any scaling applied will preserve the rank order of raw marks (i.e. if your raw mark exceeds that of another student, then your scaled mark will exceed the scaled mark of that student), and may be either up or down.

SUPPORT FOR STUDENTS
The University offers a number of support services for students. Information on these is available online from [http://students.anu.edu.au/studentlife/](http://students.anu.edu.au/studentlife/)