

# ECEN 220 (2015) - Home Page

## ECEN 220: 2015 Trimester 2

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This document sets out the workload and assessment requirements for ECEN 220. It also provides contact information for staff involved in the course. If the contents of this document are altered during the course, you will be advised of the change by an announcement in lectures and/or on the course web site. A printed copy of this document is held in the School Office.

### Objectives

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By the end of the course, students should be able to (in order of appearance in the course)

1. Understand and work with the fundamentals of statistical data analysis, including probability-mass, probability-density and cumulative-density functions, random variables, correlation, statistical dependencies, confidence intervals, hypotheses, and linear regression (BE graduate attributes (BE graduate attributes [3\(a\)](#)) and [3\(a\),3\(e\)](#)),
2. Calculate common Laplace and Fourier transforms from first principles and by using a tables of common transforms and properties (BE graduate attribute [3\(a\)](#)),
3. Produce mathematical models of electronic circuits and electromechanical systems and apply Laplace and Fourier theory to the analysis of electronic circuits, electromechanical systems and communication systems (BE graduate attribute [3\(c\)](#)) and [3\(b\)](#)),
4. Use the Matlab programming language to solve problems in statistics, linear systems and signals (BE graduate attributes [3\(f\)](#)).

### Textbook

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The texts for ECEN 220 are:

1. *Navidi "Statistics for Engineers and Scientists", 3rd edition* (Statistics module) and
2. *Lathi "Linear Systems and Signals", 2nd edition* (Fourier and Laplace transforms module).

Each book is used for one half of the course. It will be difficult to do well in the course if you do not have the book. Assignments will be taken from the books.

### Lectures, Tutorials, Laboratories, and Practical work

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A [schedule](#) of lecture topics, readings, and assignment due dates is available online.

Lectures for ECEN 220 are Lectures are Monday 13:10-14:00 in MYLT101, Wednesday 13:10-14:00 in KK202, and Friday 13:10-14:00 in HMLT001. The two in-term tests will be held during the normal lectures at a later-to-be-decided date.

Labs and tutorials take one afternoon per week and will be held on different weekdays for different groups. You have been assigned to a session according to the schedule posted near the top of the table on the [Lecture Schedule](#) page. During some weeks there will be no labs, but instead there will be a tutorial during the **last** hour of the normal designated lab time.

### Assignments and Projects

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There will short weekly assignments for the course. Unless other arrangements are made the assignments should be submitted in hard copy at the lecture. Any code associated with the assignments should be provided in hard copy.

Six laboratory/tutorial sessions, in addition to an introductory Matlab session, will be held as described in the [Lecture Schedule](#). You will be expected to sign up for one of the two laboratory/tutorial sessions during the first week of trimester and students will have priority in using the labs during their assigned session. However, you are welcome to use the laboratory at other times should there be space.

### Workload

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In order to maintain satisfactory progress in ECEN 220, you should plan to spend an average of at least ten hours per week on this paper. A plausible and approximate breakdown for these hours would be:

- Lectures and tutorials: 3 hours
- Reading and Extra Problems: 3 hours
- Assignments: 4 hours

## School of Engineering and Computer Science

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The School office is located on level three of the Cotton Building ([Cotton 358](#)).

The notice board for ECEN 220 is located on the second floor of the Cotton Building.

### Staff

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The course coordinator for ECEN 220 is [Prof Bastiaan Kleijn](#); he will teach the statistics part of the course. [Dr Pawel Dmochowski](#) will lecture in the Laplace and Fourier transform portion of the course. Their contact details are:

- [Bastiaan Kleijn](#)
- [Alan MacDiarmid 417](#)
- +64 4 463 5045
- [Bastiaan.Kleijn@vuw.ac.nz](mailto:Bastiaan.Kleijn@vuw.ac.nz)
  
- [Pawel Dmochowski](#)
- [Alan MacDiarmid 419](#)
- +64 4 463 5948
- [pawel.dmochowski@ecs.vuw.ac.nz](mailto:pawel.dmochowski@ecs.vuw.ac.nz)

### Tutors

- [Kelson Chua](#)
- [Steven van Kuyk](#)

### Class Representative

- [Kevin Satur](#)

## Announcements and Communication

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The main means of communication outside of lectures will be the ECEN 220 web area at [http://ecs.victoria.ac.nz/Courses/ECEN220\\_2015T2/](http://ecs.victoria.ac.nz/Courses/ECEN220_2015T2/). There you will find, among other things, this document, the [lecture schedule](#) and [assignment handouts](#), and the [ECEN 220 Forum](#). The forum is a web-based bulletin board system. Questions and comments can be posted to the forum, and staff will read these posts and frequently respond to them.

## Assessment

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Your grade for ECEN 220 will be determined based on the following assessment weightings:

<u>Item</u>	<u>Weight</u>
Assignments	20%
Labs (5)	15%
Tests (2)	20%
Final Examination	45%

Work submitted late will be subject to a penalty of 10% of the total mark per day (or part thereof). No work will be accepted once the solutions have been posted and we may choose to post the solutions immediately after the due date.

The assignments will assess the students' mastery of all course objectives. The tests and exam will assess mastery of all course objectives except the use of Matlab programming.

Bachelor of Engineering students should be aware that copies of their assessed work may be retained for inspection by an accreditation panel.

## Tests and Exams

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Two tests will be held during a normal lecture time. Their time will be announced in the lecture schedule. If you cannot attend a test please contact the appropriate lecturer as soon as possible so that we can make alternate arrangements.

The [timetable for final examinations](#) will be available from the University web site and will be posted on a notice board outside the faculty office. The final examination will be three hours long. No computers, electronic calculators or similar device will be allowed in the final examination. Paper non-English to English dictionaries will be permitted. The examination period for trimester 2 is 23 October - 14 November.

## Plagiarism

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## Working Together and Plagiarism

We encourage you to discuss the principles of the course and assignments with other students, to help and seek help with programming details, problems involving the lab machines. However, any work you hand in must be your own work.

The [School policy on Plagiarism](#) (claiming other people's work as your own) is available from the course home page. Please read it. We will penalise anyone we find plagiarising, whether from students currently doing the course, or from other sources. Students who knowingly allow other students to copy their work may also be penalised. If you have had help from someone else (other than a tutor), it is always safe to state the help that you got. For example, if you had help from someone else in writing a component of your code, it is not plagiarism as long as you state (eg, as a comment in the code) who helped you in writing the method.

## Mandatory Requirements

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In addition to meeting the overall course pass grade, to be awarded a passing grade a student must

- Achieve a grade of at least 40% in all in-term tests.
- Achieve a grade of at least 40% for the final exam.
- Submit at least four satisfactory lab reports.

## Passing ECEN 220

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To pass ECEN 220, a student must satisfy mandatory requirements and gain at least a **C-** grade overall.

## Withdrawal

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The last date for withdrawal from ECEN 220 with entitlement to a refund of tuition fees is Friday 24 July 2015. The last date for withdrawal without being regarded as having failed the course is Friday 25 September 2015 -- though later withdrawals may be approved by the Dean in special circumstances.

## Rules & Policies

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Find key dates, explanations of grades and other useful information at <http://www.victoria.ac.nz/home/study>.

Find out about academic progress and restricted enrolment at <http://www.victoria.ac.nz/home/study/academic-progress>.

The University's statutes and policies are available at <http://www.victoria.ac.nz/home/about/policy>, except qualification statutes, which are available via the Calendar webpage at <http://www.victoria.ac.nz/home/study/calendar> (See Section C).

Further information about the University's academic processes can be found on the website of the Assistant Vice-Chancellor (Academic) at <http://www.victoria.ac.nz/home/about/avcacademic>

All students are expected to be familiar with the following regulations and policies, which are available from the school web site:

[Grievances](#)

[Student and Staff Conduct](#)

[Meeting the Needs of Students with Disabilities](#)

[Student Support](#)

[Academic Integrity and Plagiarism](#)

[Dates and Deadlines including Withdrawal dates](#)

[School Laboratory Hours and Rules](#)

[Printing Allocations](#)

[Expectations of Students in ECS courses](#)

The School of Engineering and Computer Science strives to anticipate all problems associated with its courses, laboratories and equipment. We hope you will find that your courses meet your expectations of a quality learning experience.

If you think we have overlooked something or would like to make a suggestion feel free to talk to your course organiser or lecturer.

[Course Outline as PDF](#)

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