



# Contents

1. Staff Contact Details .....	2
2. Course details .....	2
3. Teaching strategies.....	4
4. Course schedule .....	5
5. Assessment .....	6
6. Expected Resources for students.....	8
7. Course evaluation and development .....	8
8. Academic honesty and plagiarism.....	9
9. Administrative Matters.....	10
Appendix A: Engineers Australia (EA) Professional Engineer Competency Standards.....	11



## Contact Hours

Lectures	Day	Time	Location
	Tuesday	10:00 - 12:00	Law Theatre G04 (K-F8-G04)
<b>Demonstrations</b>	Tuesday	15:00 - 16:30	Ainsworth Building 204 (K-J17-204)



project will be monitored over the different periods for the milestones achieved. Each of the milestones will be evaluated by a panel of members made up of academic, and workshop staff.

There will be laboratory work for hands-on experience in creating the design that you have

7	Design for high volume Manufacture	19/04/2016	Law Theatre G04 (K-F8-G04)	<i>Design for Manufacturability, Material Selection and High Volume Manufacturing</i>	Generating BOM's	Week 7 Lecture Notes + Final Report Assessment Guide
8	Material Selection Intro	26/04/2016	Law Theatre G04 (K-F8-G04)	<i>Utilizing Material Index's</i>	Patterning & Mirroring	Week 8 Lecture Notes
9	Material Selection - Activity	03/05/2016	Law Theatre G04 (K-F8-G04)	<i>Design for Manufacture, Material Selection and High Volume Manufacturing</i>	CAD Test	CAD Test Assessment Guide
10	Material Selection - Detail	10/05/2016	Law Theatre G04 (K-F8-G04)	<i>Design for Manufacturability, Material Selection and High Volume Manufacturing</i>	No Labs	Week 10 Lecture Notes
11	Advanced Manufacturing Techniques	17/05/2016	Law Theatre G04 (K-F8-G04)	<i>Design for Manufacturability, Material Selection and High Volume Manufacturing</i>	No Labs	Final Report Assessment Guide
12	Sustainable Design	24/05/2016	Law Theatre G04 (K-F8-G04)	<i>No Lecture</i>	Prototype Testing	NA
13	No Lecture	31/05/2016	No Lecture	<i>Prototype Testing</i>	No Labs	NA

## 5. Assessment

You are assessed by way of a product development project which involves designing and manufacturing a product based on given functional specifications. This project will test your ability to demonstrate applied knowledge, which you will be expected to perform as an engineering student.

The weighting of the individual assessment components will be as follows with full details on each assessment provided under Moodle/Assignments.

Assessment	Due date & submission requirement	Weight %	Learning Outcomes Assessed	Details	Marks returned
Concept Sketch + Engineering Drawing	Week 5 Midnight 5 <sup>th</sup> April on Moodle.	15	1,2,3,4	Individual submission	Week 7 -19th April

Quiz	Week 7 Midnight 19 <sup>th</sup> April on Moodle.	10	1,2,3,4,5,6	Individual submission	Week 9 3rd May
CAD Test	Week 9 During CAD Lab.	10	1,2,3,4	Individual assessment	Week 11 17th May
	Week 12			Group +	
Final Report	Midnight 24 <sup>th</sup> May on Moodle.	35	1,2,3,4	Individual assessment	June 14th.
Prototype Testing	Week 13 TBD				



## Special Consideration and Supplementary Assessment

For details of applying for special consideration and conditions for the award of supplementary assessment, see [Administrative Matters](#), available on the School website and on Moodle, and the information on UNSW's [Special Consideration page](#).

## 6. ~~Expected Resources for students~~

- (1) *Manufacturing Engineering and Technology*, S. Kalpakjian and S R Schmid. Prentice Hall
- (2) *Engineering Drawing*, A. W. Boundy, McGraw Hill (7<sup>th</sup> Edition).
- (3) *Material Selection in Mechanical Design* (3rd Edition), J. C. Bird, Butterworth-Heinemann

## 8. Academic honesty and plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism: [student.unsw.edu.au/plagiarism](http://student.unsw.edu.au/plagiarism) The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student's work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis) even suspension from the university. The Student Misconduct Procedures are available here:

[www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf](http://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)

Further information on School policy and procedures in the event of plagiarism is available on the [intranet](#).

## 9. Administrative Matters

All students are expected to read and be familiar with School guidelines and policies, available on the intranet. In particular, students should be familiar with the following:

[Attendance, Participation and Class Etiquette](#)

[UNSW Email Address](#)

[Computing Facilities](#)

[Assessment Matters](#) (including guidelines for assignments, exams and special consideration)

[Academic Honesty and Plagiarism](#)

[Student Equity and Disabilities Unit](#)

[Health and Safety](#)

[Student Support Services](#)

*Nathan Parrott  
February 2016*

	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice
<b>PE2: Engineering Application Ability</b>	PE2.1 Application of established engineering methods to complex problem solving
	PE2.2 Fluent application of engineering techniques, tools and resources
	PE2.3 Application of systematic engineering synthesis and design processes
	PE2.4 Application of systematic approaches to the conduct and management of engineering projects
<b>PE3: Professional and Personal Attributes</b>	PE3.1 Ethical conduct and professional accountability
	PE3.2 Effective oral and written communication (professional and lay domains)
	PE3.3 Creative, innovative and pro-active demeanour