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# 1. Staff contact d

### 3. Course details

#### Credit Points

This is a 6 unit-of-credit (UoC) course, and involves 7.5 hours per week (h/w) of face-to-face contact.

approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work. Thus, for a full-time enrolled student, the normal workload, averaged across the 16 weeks of teaching, study and examination periods, is about 37.5 hours per week.+

This means that you should aim to spend about 9 h/w on this course. The additional time should be spent in making sure that you understand the lecture material, completing the set assignments, further reading, and revising for any examinations.

#### Contact hours

	Day	Time	Location
<b>Lectures</b>	Monday	1pm - 3pm	Ainsworth J17 G03
(Web)	Any	Any	Moodle
<b>CAD Labs</b>	Monday	3pm . 4:30pm	Ainsworth 204
<b>Weeks 2 . 8(*9)</b>	Monday	3pm . 4:30pm	Ainsworth 203
	Monday	4:30pm . 6pm	Ainsworth 204



After successfully completing this course, you should be able to:

Learning Outcome	EA Stage 1 Competencies
1. Understand the importance and relevance of graphical communication in engineering, be able to represent a three dimensional object in two dimensional space in accordance with AS-1100 technical drawing standards and conventions and be able to interpret two dimensional engineering drawings and produce isometric sketches of relevant components.	PE 1.3, PE1.4, PE2.2
2. Be able to use the SolidWorks modeling software and application to create a range of engineering components in solid representation to create production drawings of engineering components in accordance with AS-1100 technical drawing standards.	PE1.3, PE2.2

## 5. ~~Course schedule~~

Week#/ Mon-Date	Topic	Location	Lecture Content	CAD Lab Content	Suggested Readings
Week 1 26/2/18	Intro and Group Project Description	Ainsworth G03	Intro to MMAN2130, Group project outline, TAFE groups, venue details & CAD Lab info. drawings.	No CAD lab	Week 1 Lecture Notes and Pump Requirement Specification
Week 2 5/3/18	Concept Sketching	Ainsworth G03	Techniques useful for concept sketching	Introduction to SolidWorks and sketching	Week 2 Lecture Notes
Week 3 12/3/18	3D Part Modeling	Ainsworth G03	Sketching & Modeling parts in 3D	3D Operations	Week 3 Lecture Notes
Week 4 19/3/18	Engineering Drawings	Ainsworth G03	AS1100 standards, dimensioning	Holes and hole wizard	Week 4 Lecture Notes and Engineering Drawing Assessment Guide
Week 5 26/3/18 <i>Census date: 31 Mar</i>	Limits Fits & Tolerances	Ainsworth G03	Limits, Fits and tolerances and their application in design.	Engineering drawing	Week 5 Lecture Notes
MSB 2/4/18	<b>Mid-Session Break</b>				
Week 6 9/4/18	Process Planning	Ainsworth G03	Process Plan Assembly Plan BOM	Assemblies	Week 6 Lecture Notes
Week 7 16/4/18	Design for high volume Manufacture	Ainsworth G03	Design for Manufacturability, Material Selection and High Volume Manufacturing	Fasteners	Week 7 Lecture Notes + Final Report Assessment Guide
Week 8 23/4/18	Material Selection Introduction	Ainsworth G03	Utilizing Material Index's	Patterning & Mirroring	Week8 Lecture notes

<b>Week#/ Mon-Date</b>	<b>Topic</b>	<b>Location</b>	<b>Lecture Content</b>	<b>CAD Lab Content</b>	<b>Suggested Readings</b>
In Week 8 25/4/18	<b>Wednesday - Public Holiday: no CAD Lab or TAFE – check Moodle for reschedule</b>				
Week 9 30/4/18	Material Selection - Detail	Ainsworth G03	Design for Manufacture, Material Selection and High Volume Manufacturing	CAD Test	Week 9 Lecture notes
Week 10 7/5/18	Advanced Manufacturing Techniques	Ainsworth G03	Design for Manufacture, Material Selection and High Volume Manufacturing	N0.26o4US	





## Assignments

### *Presentation*

All non-electric submissions should have a standard School cover sheet which is available from this [Moodle page](#).

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect. **WRITTEN SUBMISSIONS MUST BE TYPED (including any equations and calculations). Hand sketches can be scanned and all drawings must be in CAD format to AS1100.**

### *Submission*

Late submissions will be penalised 5 marks per calendar day (including weekends). An extension may only be granted in exceptional circumstances. Special consideration for assessment tasks must be processed through [student.unsw.edu.au/special-consideration](http://student.unsw.edu.au/special-consideration).

It is always worth submitting late assessment tasks when possible. Completion of the work, even late, may be taken into account in cases of special consideration.

The table above indicates the time after which a submitted assignment will not be marked, and will achieve a score of zero for the purpose of determining overall grade in the course.

### *Marking*

Marking guidelines for assignment submissions con.00008871 0 595.32 841.92 reW\* nBT/F1 11.04 Tf1 0 0



## 9. Course evaluation and development

Feedback on the course is gathered periodically using various means, including the UNSW myExperience ] [| & ^ • • Ë Ñ - { | { a Áã & • • ã } Á Á @ Áã a Áã • Á | Á @ Áã ~ | • ^ Ë Ñ a Á @ Áã & @ [ | q Á Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

In this course, recent improvements resulting from student feedback include streamlining of assignments and providing more information on pump design information early in the course.

## 10. 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 (w)15((7s(TQ.000008871 0 595.32 841.92 reW\* nBT/F2 15.96 Tf1 0 0 1 402.91 588.22 TmC



