



UNSW
AUSTRALIA

Course outline

Semester 2 2016

Never Stand Still

Engineering

Mechanical and Manufacturing Engineering

NAVL3120

Design of Ships and
High Speed Craft
(formerly Ship Design and
Propulsion)

Contents

1.

1. Staff contact details

Contact details and consultation times for course convenor

Contact hours

	Day	Time	Location
Lecture: Part A – Mr Boulton	Tuesday Even Weeks: 2,4,6,8,10,12	9am – 12noon	Mathews 227
Lecture: Part B - Mr Lyons	Tuesday Odd weeks: 1,3,5,7,9,11,13	2pm – 5pm	Mathews 227

Summary of the course

This course (formerly known as Ship Design and Propulsion) focuses on the design process as it applies to ships and a special category of faster ships defined as high speed craft. It is divided into:

Part A –



Lectures in the Course are designed to cover the terminology and core concepts and theories in the design of ships and high-speed craft. They do not simply reiterate the texts, but build on the lecture topics using examples taken directly from industry to show how the theory is applied in practice and the details of when, where and how it should be applied.

4

5. Assessment

Assignments

Presentation

All submissions should have a standard School cover sheet which is available from this course's Moodle page.

All submissions are to be neatly typed and clearly set out . Presenting them clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

Submission

Part A: By hard copy in-class to Mr Boulton.

Part B: By email to david.lyons@unsw.edu.au

Late submissions will be penalised 5% of the available marks per calendar day (including weekends). An extension may only be granted in exceptional circumstances. Where an assessment task is worth less than 20% of the total course mark and you have a compelling reason for being unable to submit your work on time, you must seek approval for an extension from the course convenor before the due date . Special consideration for assessment tasks of 20% or greater must be processed through 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.

W o4.7 /Po osib(on o)Tc 0.007 Tw 4.Po-2(en 20)10.6(%)-onabeir Td [(W)-[(144.272 -s)-

Centre prior to the examination. Calculators not bearing an “Approved” sticker will not be allowed into the examination room.

Special consideration and supplementary assessment

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

6. Expected resources for students

Part A – Design of HSC

Students are given extensive lecture notes by the lecturer which are uploaded to Moodle.

Part B –

This text is available in the UNSW Library and is useful as additional reading material, giving good descriptions.

Additional materials provided in Moodle

This course has a website on UNSW Moodle which includes:

- x copies of assignments (as they are issued, in case you missed the hand-out in class);
- x previous examination papers in this course from 2010 onwards;
- x answers to the numerical questions in examinations from 2010 onwards; and
- x a discussion forum.

The discussion forum is intended for you to use with other enrolled students. The course convenor will occasionally look at the forum, monitor the language used and take note of any frequently-asked questions, but will not respond to questions on the forum. If you want help from the convenor then direct contact is preferred.

Recommended internet sites

There are many websites giving lectures, papers and data on ship terminology and design. Try searching for “ship design” (including the quote marks).

Principal particulars of many different types of vessels are available on the Internet. You might like to try the following for a start:

Austal Ships	www.austal.com
Incat Crowther	www.incatcrowther.com.au
Incat Australia	www.incat.com.au
One2Three Naval Architects	www.one2three.com.au

or a general site (containing links to many marine sites) such as

AIMEX	www.aimex.asn.au
MarTV	www.martv.com

Other Resources

If you wish to explore any of the lecture topics in more depth, then other resources are available and assistance may be obtained from the UNSW Library.

One starting point for assistance is:

www.library.unsw.edu.au/servicesfor/students.html

Appendix A: Engineers Australia (EA) Stage 1 Competencies for Professional Engineers