Course Outline

COMP3161
Concepts of Programming Languages
Semester 2 2015

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Course Staff

Contact Details

Staff Name	Role	Email	Phone
Gabi Keller	Course Convenor	keller at cse.unsw.edu.au	56032
Liam O'Connor-Davis	Course Admininstrator	liamoc at cse.unsw.edu.au	

Consultations

Staff Name	Day/Time	Location

Course Details

Course Code:	COMP3161
Course Title:	Concepts of Programming Languages
Units of Credit:	6
Course WebSite:	http://www.cse.unsw.edu.au/~cs3161/
Handbook Entry:	http://www.handbook.unsw.edu.au/undergraduate/courses/2015/COMP3161.html

Course Summary

This course discusses and relates a range of programming language concepts and paradigms, including imperative, object-oriented, functional, concurrent & parallel programming. It covers the theoretical foundations (syntax, operatational, axiomatic and denotational semantics) as well as practical development and implementation aspects (dynamic and strong typing, polymorphism, overloading, automatic memory management, and multicore parallelism). Due to the course topic, a variety of programming languages will be studied and used. Assignments will be in the programming language Haskell, but no previous knowledge of Haskell is assumed.

Course Aims

This course aims to ...

Student Learning Outcomes

After completing this course, students will:

- know certain things ...
- be able to do other things ...

This course contributes to the development of the following graduate capabilities:

Graduate Capability	Acquired in
scholarship: understanding of their discipline in its interdisciplinary context	?
scholarship: capable of independent and collaborative enquiry	?
scholarship: rigorous in their analysis, critique, and reflection	?
scholarship: able to apply their knowledge and skills to solving problems	?
scholarship: ethical practitioners	?
scholarship: capable of effective communication	?
scholarship: information literate	?
scholarship: digitally literate	?
leadership: enterprising, innovative and creative	?
leadership: capable of initiating as well as embracing change	?
leadership: collaborative team workers	?
professionalism: capable of independent, self-directed practice	?
professionalism: capable of lifelong learning	?
professionalism: capable of operating within an agreed Code of Practice	?
global citizens: capable of applying their discipline in local, national and international contexts	?
global citizens: culturally aware and capable of respecting diversity and acting in socially just/responsible ways	?
global citizens: capable of environmental responsibility	?

Assumed Knowledge

Before commencing this course, students should:

- know certain things ...
- be able to do other things ...

These are assumed to have been acquired in the courses ...

Teaching Rationale

This course is taught the way it is because ...

Teaching Strategies

- Lectures ... introduce concepts, show examples
- Tutorials ... reinforce concepts and provide additional examples
- Lab Work ... introduce technology required for the assignments
- Assignments .. allow students to solve significant problems

Assessment

Details of assessment items ...

Or, if you're using the WebCMS GradeBook, simply use the [Assessment] tag.

Academic Honesty and Plagiarism

Plagiarism is defined as "using the words or ideas of others and presenting them as your own". UNSW and CSE treat plagiarism as academic misconduct, which means that it carries penalties as severe as being excluded from further study at UNSW. There are several on-line sources to help you understand what plagiarism is and how it is dealt with at UNSW:

- Learning Centre: Plagiarism and Academic Integrity
- MyUNSW: Plagiarism and Academic Misconduct
- CSE: Addendum to UNSW Plagiarism Guidelines
- CSE: Yellow Form (whose terms you have agreed to)

Make sure that you read and understand these. Ignorance is not accepted as an excuse for plagiarism.

Course Schedule

Schedule of topics, organised by week ...

Alternatively, enter the data into the the WebCMS Schedule (under Administration) and then use the [Schedule] tag.

As in the following:

No schedule is available (yet)

Resources for Students

Texts and recommended readings:

- Title1, Authors1, Publisher1, edition1, ...
- Title2, Authors2, Publisher2, edition2, ...

Other resources (e.g. links to on-line documentation) ...

Course Evaluation and Development

This course is evaluated each session using the CATEI system.

In the previous offering of this courses, students noted ...

Based on their comments, we have ...