

ACE Network Subject Information Guide

Advanced Numerical Analysis

Semester 2, 2020

Administration and contact details

Host Department	Mathematics
Host Institution	University of Newcastle
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Subject details

Handbook entry URL	Click here to enter text.
Subject homepage URL	Click here to enter text.
Honours student hand-out URL	Click here to enter text.
Start date:	July 20, 2020
End date:	Nov 8, 2020
Contact hours per week:	2
Lecture day and time:	To be decided later
Description of electronic access arrangements for students (for example, WebCT)	To be decided later

Subject content

1. Subject content description

Learning Outcome Descriptors at AQF Level 8

Knowledge

K1: coherent and advanced knowledge of the underlying principles and concepts in one or more disciplines

K2: knowledge of research principles and methods

Skills

S1: cognitive skills to review, analyse, consolidate and synthesise knowledge to identify and provide solutions to complex problem with intellectual independence

S2: cognitive and technical skills to demonstrate a broad understanding of a body of knowledge and theoretical concepts with advanced understanding in some areas

S3: cognitive skills to exercise critical thinking and judgement in developing new understanding

S4: technical skills to design and use in a research project

S5: communication skills to present clear and coherent exposition of knowledge and ideas to a variety of audiences

Application of Knowledge and Skills

A1: with initiative and judgement in professional practice and/or scholarship

A2: to adapt knowledge and skills in diverse contexts

A3: with responsibility and accountability for own learning and practice and in collaboration with others within broad parameters

A4: to plan and execute project work and/or a piece of research and scholarship with some independence

3. Learning resources

R.L. Burden and J.D. Faires, Numerical Analysis, 9th edition, Brooks and Cole

4. Assessment

Exam/assignment/classwork breakdown					
Exam	50 %	Assignment	50%	Class work	Enter 0%
Assignment due dates		Week 5	Week 9	Click here to enter a date.	Click here to enter a date.
Approximate exam date				Monday 11 Nov -- Friday 29 Nov 2019	

Institution Honours program details

Weight of subject in total honours assessment at host department	Click here to enter text.
Thesis/subject split at host department	Click here to enter text.
Honours grade ranges at host department:	
H1	Enter range %
H2a	Enter range %
H2b	Enter range %
H3	Enter range %