

# Operating Systems

Dr. Vivek Nallur ([vivek.nallur@ucd.ie](mailto:vivek.nallur@ucd.ie))

# Class Times

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- ▶ Main Lecture

- ▶ Week 1 – 15 Friday at 8.00 am – 9:35 am
  - ▶ (Room 502 TB 4)

- ▶ Practical/ Tutorials / Quizzes start in week 5

- ▶ 163721, 163722, Monday → 9:55 Zhixing Building
- ▶ 153711, 153712, Monday → 15:25 Zhixing Building
- ▶ 153713, 163723 + repeat, Monday → 18:00 Zhixing Building



# Grading

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- ▶ Breakdown

- ▶ Quizzes & Final 'grand' quiz 20%
- ▶ Exam 80%

- ▶ Assignments will be most weeks

- ▶ Final 'grand' quiz in the last week of term



# Letter grading conversion for numerical graded assignments/Exams

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- ▶ UCD computer science has adopted its own grading scheme which is different to the UCD standard.
- ▶ This system is to help reflect correctly in each subject what an A+ corresponds to 95% or higher
- ▶ Operating Systems will use the Computer Science Grade conversion system.



# Computer Science Grade conversion

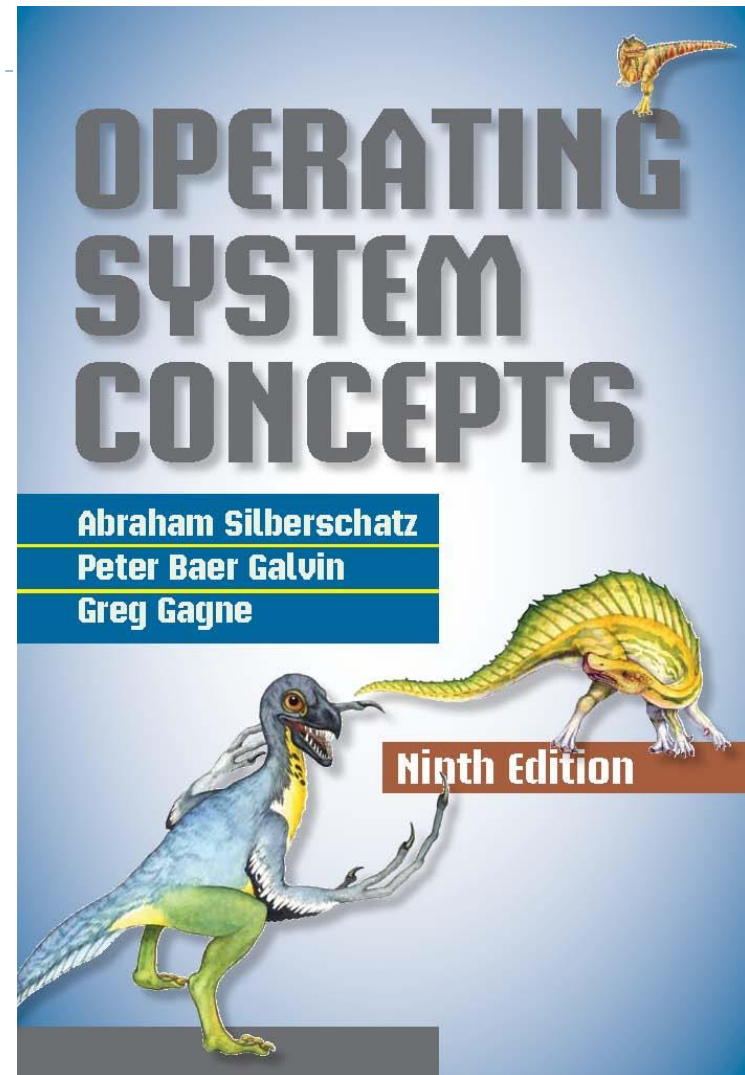
grade	min	max	avg
A+	95	100	97.5
A	90	95	92.5
A-	85	90	87.5
B+	80	85	82.5
B	75	80	77.5
B-	70	75	72.5
C+	65	70	67.5
C	60	65	62.5
C-	55	60	57.5
D+	50	55	52.5
D	45	50	47.5
D-	40	45	42.5
E+	35	40	37.5
E	30	35	32.5
E-	25	30	27.5
F+	20	25	22.5
F	15	20	17.5
F-	10	15	12.5
G+	8	10	9
G	5	8	6.5
G-	2	5	3.5
NG	0	0	0



# Course Textbook

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- ▶ Official course text book
- ▶ Operating System Concepts, Ninth Edition (by Abraham Silberschatz)
- ▶ Notes are based off this book
- ▶ References to chapter numbers are too



# Recommended Book (if you wish)

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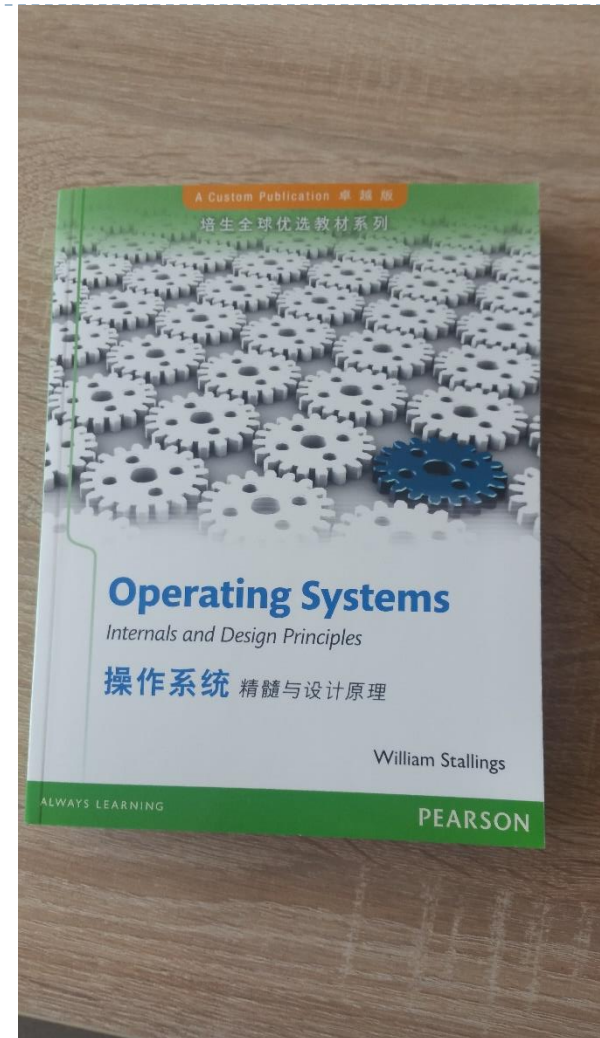
Published in China

# Operating Systems

Internals and Design  
Principles

William Stallings

Publisher: PEARSON



# Examinable materials & Emailing

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- ▶ All examinable materials will be covered in lecture notes
- ▶ Please write “OS2017” in the subject line of any email to me so I can respond promptly





# Operating Systems Terms

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- ▶ Operating systems introduces multiple new English technical terms that you will be unfamiliar with.
- ▶ Even a native English speaker would not know these words so please ask if you are unsure.
- ▶ In these classes I will explain what words would be uncommon and what words have a different meaning in the context of discussing operating systems.
- ▶ FOLDOC.org is your friend , please use it



# Copying

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- ▶ Any students who copy assignments will get 0
- ▶ This is **both** the student who copied and the student who wrote it



# Topics

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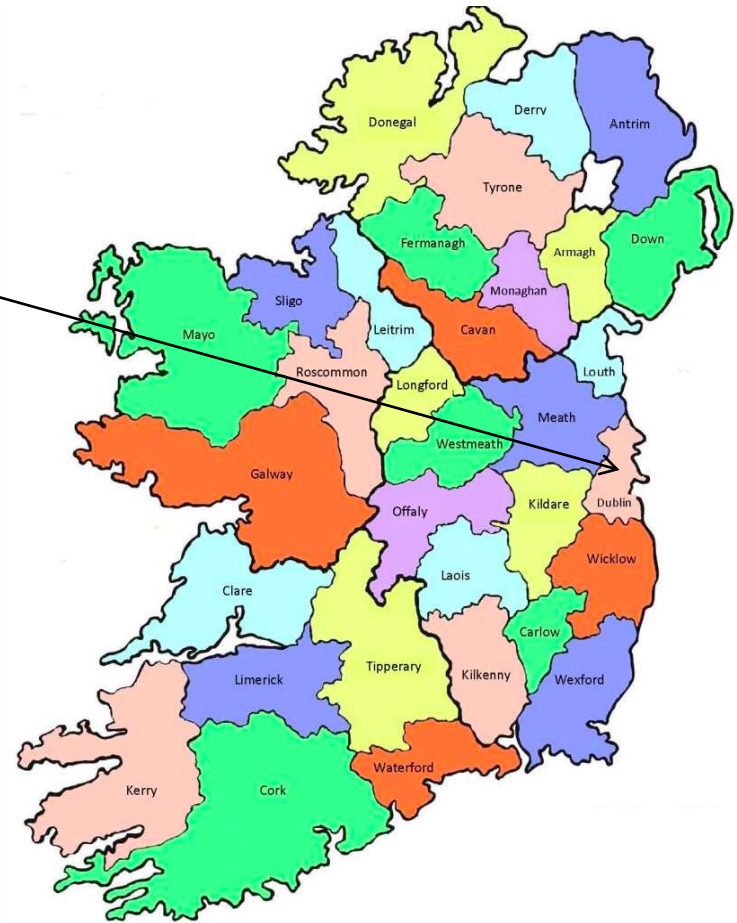
- ▶ Operating System Structure
- ▶ Processes
- ▶ Concurrency
- ▶ Process Scheduling
- ▶ Memory Management
- ▶ File Management
- ▶ Operating System Security



# About me

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- ▶ I live and work in Dublin: Ireland's capital city (and biggest city): population of 1,100,000



# About Me

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- ▶ Lecturer in School of Computer Science and Informatics in UCD as part of the BDIC program
- ▶ I did my PhD in University of Birmingham, UK.
  - ▶ My research areas cover Multi-Agent Systems, Decentralized Adaptation, Emergence in Complex Networks and Machine Learning
- ▶ Previously taught in:
  - ▶ Trinity College Dublin
  - ▶ University of Birmingham, UK

