



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	計算機概論		學年/學期 Academic Year/Semester	112/1	
課程名稱(英文) Course Name in English	Introduction to Computer Science				
科目代碼 Course Code	ACIM10010	系級 Department & Year	學一	開課單位 Course-Offering Department	會計與資訊管理國際學士班
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/張漢利				
先修課程 Prerequisite					
課程描述 Course Description					
<p>This course provides a comprehensive overview of fundamental topics in computer science. Students will gain basic knowledge about computers, data manipulation, data abstraction, computer architecture and organization, software development, operating systems, databases, networks, multimedia, and artificial intelligence. By the end of the course, students will have a solid foundation and knowledge in computer science, making them well-prepared for further advanced studies in advanced fields.</p>					
課程目標 Course Objectives					
<p>This course provides a comprehensive overview of fundamental topics in computer science. Students will gain basic knowledge about computers, data manipulation and abstraction, computer architecture and organization, software development, operating systems, databases, networks, multimedia, and artificial intelligence. By the end of the course, students will have a solid foundation and knowledge in computer science, making them well-prepared for further advanced studies in advanced fields.</p>					
系專業能力 Basic Learning Outcomes					課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	兼具會計資訊理論與實務操作及專業知識，具備跨領域解決問題能力				●
B	具有良好之會計資訊理論基礎與分析能力，具備相關領域升學或就業之知識與能力				●
C	具備以資訊技術協助企業運作與商業管理之知識與應用能力				●
D	具有會計資訊、風險控管、電腦審計與稅務整合能力				○
E	具備超然獨立並嚴格遵守會計資訊專業倫理的道德勇氣				○
F	具備團隊合作、國際視野、創造性思考及良好的外語能力				●
圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
授課進度表 Teaching Schedule & Content					
週次 Week	內容 Subject/Topics				備註 Remarks
1	Orientation				
2	Introduction				

3	Data storage	
4	Data manipulation	
5	National Day	
6	Operating systems	
7	Networking and Internet	
8	Algorithm	
9	期中考試週 Midterm Exam	
10	Programming Languages	
11	Software Engineering	
12	Data Abstraction	
13	Database Systems	
14	Computer Graphics	
15	Artificial Intelligence	
16	Theory of Computation	
17	期末考試週 Final Exam	
18	Alternative	

教學策略 Teaching Strategies

- 課堂講授 Lecture
  分組討論 Group Discussion
  參觀實習 Field Trip  
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學(Innovative Teaching)

- 問題導向學習(PBL)
  團體合作學習(TBL)
  解決導向學習(SBL)  
 翻轉教室 Flipped Classroom
  磨課師 Moocs

社會責任(Social Responsibility)

- 在地實踐 Community Practice
  產學合作 Industry-Academia Cooperation

跨域合作(Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
  跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	10%								
期中考成績 Midterm Exam	25%	✓							
期末考成績 Final Exam	30%	✓							
作業成績 Homework and/or Assignments	25%		✓						
其他 Miscellaneous (class participation)	10%								

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

1. Behrouz Forouzan. 2023. Foundations of Computer Science, 5e, Cengage
2. J. Glenn Brookshear and Dennis Brylow. 2019. Computer Science: An Overview, 13e, Pearson

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.)

其他補充說明 (Supplemental instructions)