

 國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	程 式 設 計(一)			學 年/學 期 Academic Year/Semester	114/1
課程名稱(英文) Course Name in English	Introduction to Computer Programming(I)				
科目代碼 Course Code	ACIM10020	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	/張烜瀚				
先修課程 Prerequisite					
課程描述 Course Description					
This course is an introductory course to programming. It aims to establish a strong base in essential programming concepts and techniques, enhancing students' problem-solving and critical thinking skills through interactive lessons, projects, and exercises. Conducted in English, the course prepares students for the global programming community. By the end, students will understand programming principles well and be equipped with practical coding skills. These skills are vital for pursuing advanced courses in programming, algorithms, data structures, data analysis, machine learning, and solving real-world problems.					
課程目標 Course Objectives					
This course aims to provide students with a solid foundation in computer programming using the C and Python languages. Students will learn how to write clear codes through a hands-on learning approach. This course is designed for individuals with little to no programming experience. Students will also gain practical programming experience and develop problem-solving skills through small projects and exercises. By the end of the course, students will be able to perform basic programming tasks and have a solid foundation for further exploration of advanced topics.					
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	User Input, Variables and Simple Data Types	
3	Introducing Lists and Working with Lists	
4	if, if...else Statements	
5	while Loops	
6	Functions and Dictionaries	
7	Introduction Classes	
8	File and Exceptions, Testing your Code	
9	期中考試週 Midterm Exam	
10	Introducing to Pandas	
11	Working Pandas	
12	Introduction to Numpy	
13	Working Numpy	
14	Data Visualization, Matplotlib	
15	Project I, Statistics for Python	
16	Project II, Big Data for Python	
17	Overview	
18	期末考試週 Final Exam	

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: 使用Kahoot!即時反饋系統輔助課堂講授

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:

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(含出缺席) General Performance (Attendance Record)	20%		✓						
期中考成績 Midterm Exam	30%	✓							
期末考成績 Final Exam	30%				✓				
作業成績 Homework and/or Assignments	20%		✓						
其他 Miscellaneous (_____)									
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.)									
Introduction to Python Programming (Taiwan Edition), Y Daniel Liang, Pearson FT Press, ISBN:9813351934 Python Crash Course, 3rd Edition: A Hands-On, Project-Based Introduction to Programming, Eric Matthes, No Starch Press. ISBN: 1718502702									
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)									