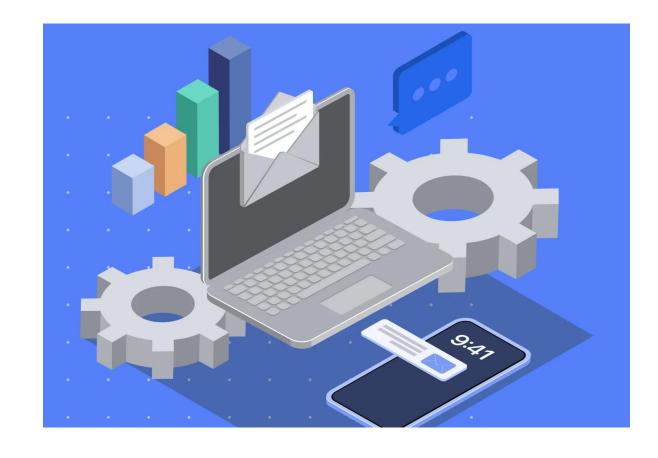
eC2 Academy Curriculum Design V 2025

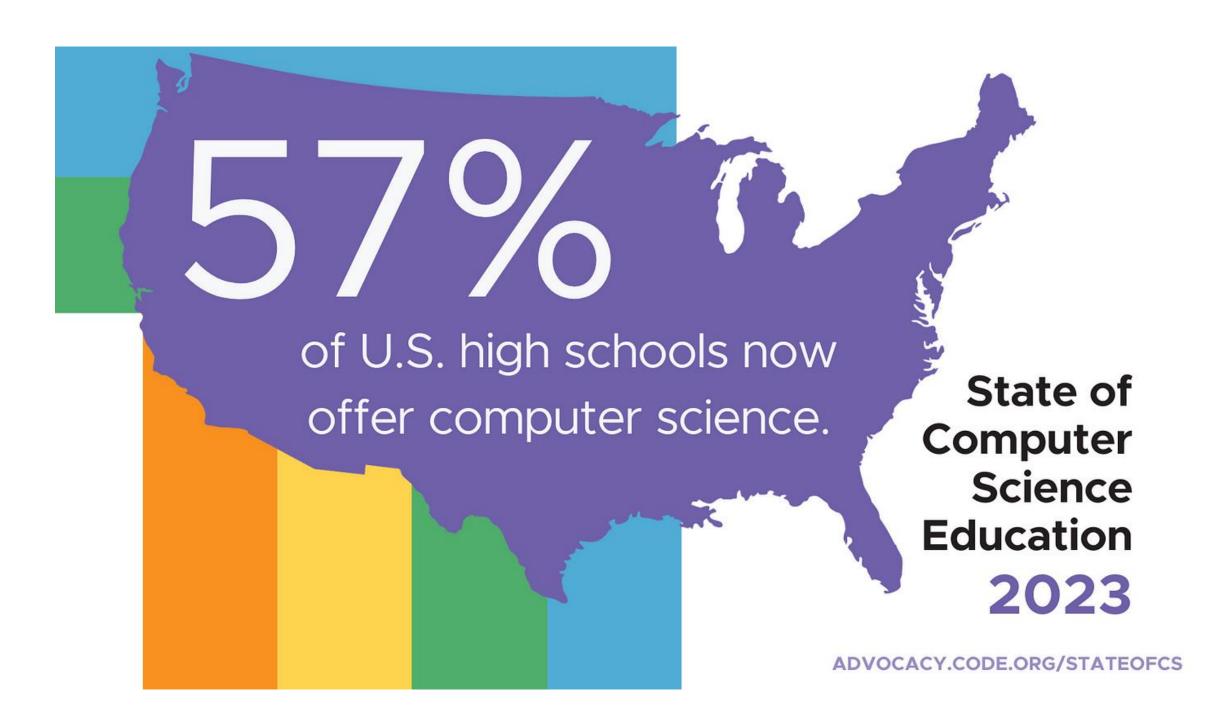


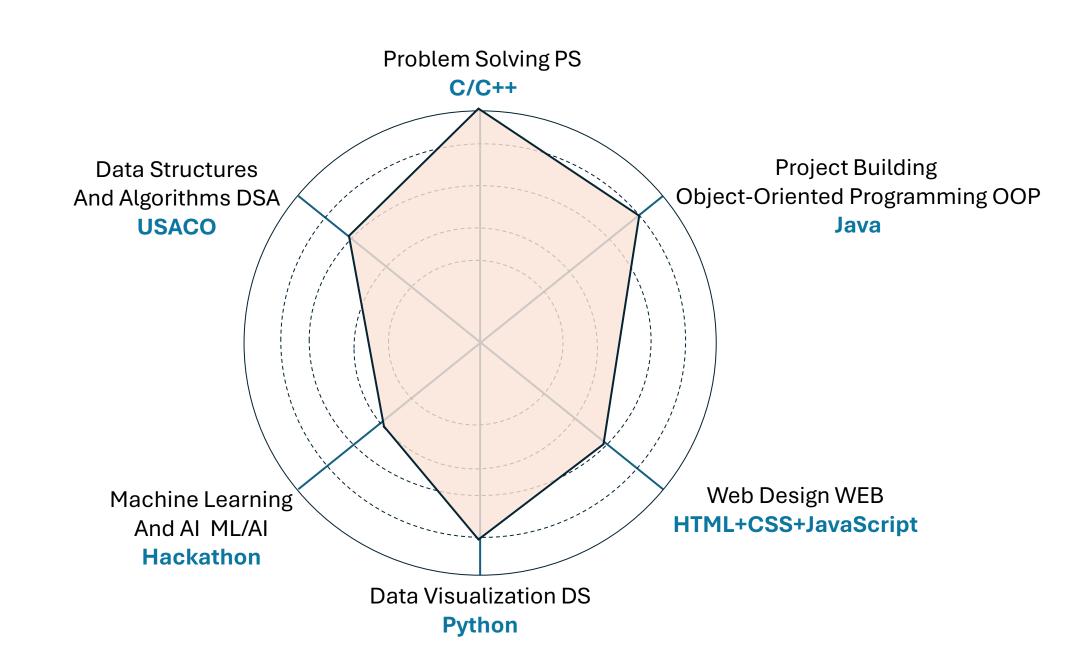
高中生必須具備哪些電腦能力

Dr. Eric Chou

IEEE Senior Member, Adjunct Professor, Lewis University

http://ecode24.com, facebook/DrEricChou

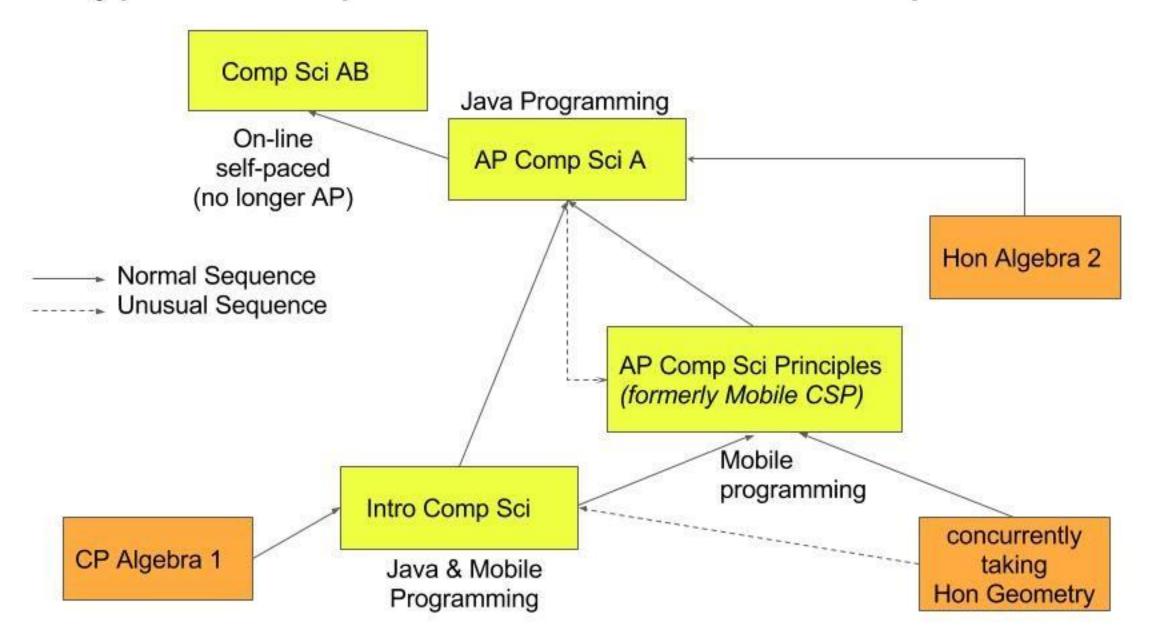




高中電腦教育目標

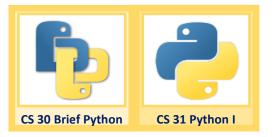
- 建立基本編程能力
- •接續大學 CS 專業學科能力
- 培養及訓練同學們參與競技型編程比賽, 社團活動, 社區學院雙修課程, 科學研究及論文創作

Typical Computer Science Course Sequences



AP Computer Science Principles 計算機概論

Summer



Fall



Spring



AP Computer Science A 計算機程式設計

Summer



Fall



Fall

Spring



CS 25 Java 3

C/C++, USACO 資料結構與演算法

Summer

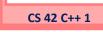
CS 43 C++ 2

CS 91 USACO-B

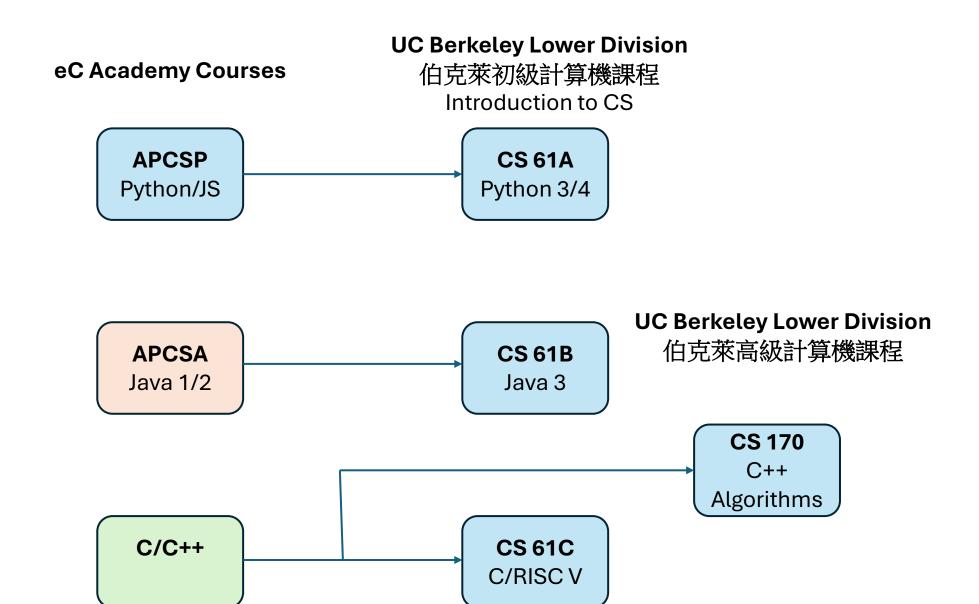
Spring

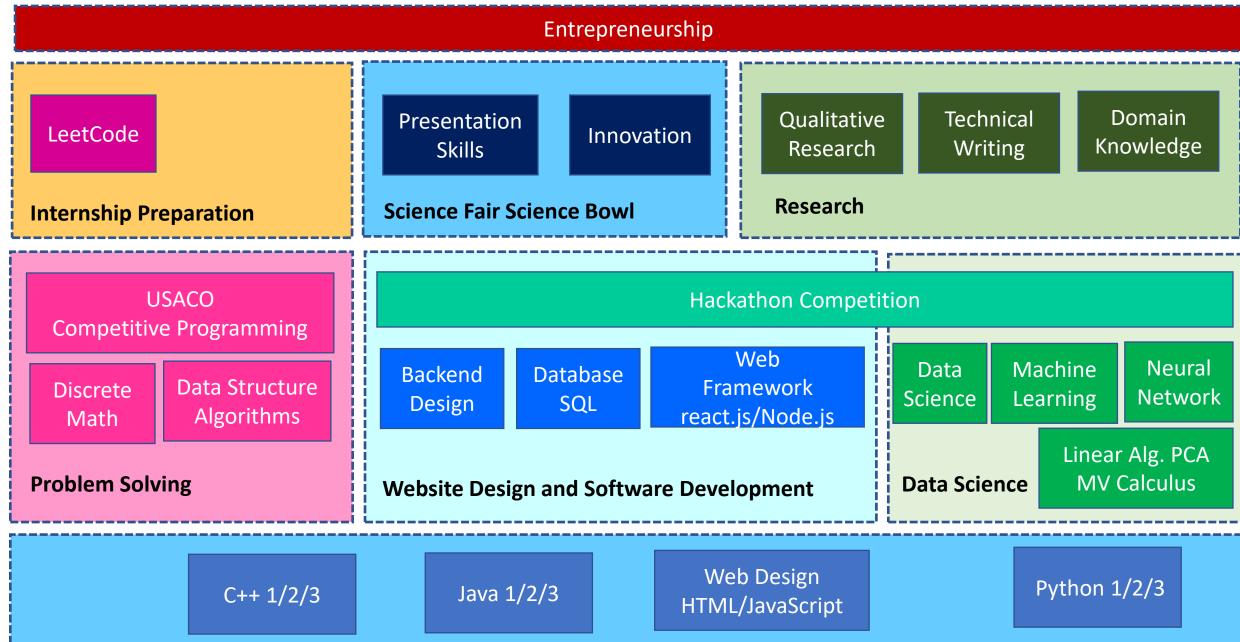












Basic Computer Science Education: Languages and Computer Science Principles



USACO

AIME

USAMO

IMO

IOI

C/C++
Programming
Device Level
Programming

Robotics Club
Competitive Programming Club

Research and Conference Paper

Kraggle Al Competition

Journal Paper

Introductory to Computer Science

Computer Programming APCSA

Computer Science Club

Data Science Club (President)

DECA

Entrepreneurship programs M&TSI

Leadership in National Honors Society

MIT Launch X

HTML CSS JavaScript

Data
Internet
Programming
CS
APCSP

Online Courses

IBM Data Science (edX)
Imperial College of London Math for ML
Deep Learning Specialization (deeplearning.ai)

Hackathons

Hosting Hackathon