Four-year course planning table for the Information Application Group of the Department of Information Engineering

	First Grade		Second Grade		Third Grade		Fourth Grade	
	Last Term	Next Term	Last Term	Next Term	Last Term	Next Term	Last Term	Next Term
Compulsory	English（Ⅰ）(2) Physical Education(Ⅰ) (0)	English（Ⅱ）(2) Physical Education （Ⅱ） (0)	English（Ⅲ）(1)	English(Ⅳ)(1)				
General Studies	核心通識課程：通識課程分為「社會關懷(含"人文涵養"及"社會習察"2向度)」、「創新創意(含"藝術感知"及"科學探究"2向度)」、「健康促進(含"自我探索"及"生醫衛保"2向度)」三類，每類之核心通識課程至少必須修習兩門，需12學分；多元選修：需修10學分，共11門課22學分							
calibration	Intercollege Micro Programs(3)							
Department of compulsory	Introduction to Computer (3) ★ Operating Systems Practices (3) Visual Programming Logic and Design (3)★	Information Application Software (3) Multimedia Softwares (3) The Internet and Applications (3)	Multimedia Technology and Application (3) Introduction to Game Design (3)	Interactive Multimedia Systems (3) APP Design and Application (3)	Web Design and Programming (3)	Project Implementation (1) Statistical Practice (3)	Project Implementation (1)	
number of credits	9	9	6	6	3	4	1	0
Required of Elective	C Programming Design (3) C programming practice (I) (1)			Innovative Information Technology and Application (3)				
Elective	Discrete Mathematics (3) English for Science and Technology (Ⅰ) (3)*	The implementation and applications of programming (3) * English for Science and Technology (Ⅱ) (3) * C++Programming Design (3) C programming practice (Ⅱ) (1) Introduction of Artificial Intelligence (3) ★ Calculus (3) Introduction to Design (3)	Introduction to UNIX Operating System (3) Robot Programming (3)* Matlab Programming (3) Digital Image Editing (3) Windows Programming (3) Engineering Mathematics (3) Combinatorial Mathematics (3) Data structures (3) Linear Algebra (3) Introduction to Cloud Computing (3) Python Programming (3)	Advanced Linear Algebra (3) * JAVA Programming (3)* Digital signal processing (3) Advanced Matlab Programming (3) Problem Solving and Programming Techniques (3) Advanced Data Structure (3) Probability (3) Advanced Python Programming (3) Database System (3) Introduction to Internet of Things (3) Assembly Language (3) Logic Electronic (3) Digital Music Editing and Production (3)	OCA, Java Programmer (3) Computer Graphics (3) Cisco Certified Network Associate (CCNA) Ⅰ(3) * Image Processing (3) Oracle Database SQL Certified Expert (3) iOS APP Programing (3) Video Editing and Digital Design (3) Introduction to VLSI (3) Statistics (3) System Programming (3) Microprocessor System (3) * Computer Network (3) Intro. to Computer Algorithms (3) Software Engineering (3) Interaction Design (3)	OCP, Java Programmer (3) Computer Animation (3) Cisco Certified Network Associate (CCNA) Ⅱ(3) Oracle Database Administrator Certified Associate (3) Android APP Programing (3) Practical Robot Programming (3) Programming Language (3) Introduction to Graphs (3) Computer Architecture (3) Compilers (3) * Operating System (3) Advanced Web Programming (3) Introduction to Machine Learning (3) Interaction Design (3) Artificial Intelligence (3)	Digital Audio Signal Processing (3) Wireless Network (3) Electronic Commerce (3) Computer Vision (3) Professional Internships (3) Data Mining (3) * Wireless ad hoc and sensor networks (3) Machine Learning (3) Network Security Practice (3) Programming for visual art (3) All Semester Internships (9)	Video processing (3) Pattern Recognition (3) Professional Internships (3) Information Project Implementation (3) Digital Learning (3) Big Data Analysis and Applications (3) All Semester Internships (9) Internet of Things-Therory and Implementation (3) Deep Learning (3) Cloud Security (3) UAV Unmanned Aerial Vehicle (3) Practical Game Design (3)
number of credits	10	19	33	45	45	45	39	42