

## Tzu Chi University. Bachelor's Degree Curriculum Map in the Department of Information Technology and Management, 2025.

June 2, 2025: Approved by the Department Curriculum Committee

June 4, 2025: Approved by the College Curriculum Committee

June 5, 2025: Approved by the University Curriculum Committee

Course schedule for Fall 2025	Year 1		Year 2		Year 3		Year 4		Educational Goals Core Competencies	Future Development		
	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester				
The Core Required Courses of the School (33)	1. General Studies Center Courses: Basic General Courses (Required) 18 credits, General Elective Courses 16 credits, General Courses of the Colleges 4 credits. 2. Foreign Language Courses: Elective Courses 2 credits. 3. Physical Education Courses: Required Courses 2 credits, Interest Options for Active Physical Education Elective Courses 1 credit. *The core required courses of the school are handled by the regulations of the College, the General Education Center, the Physical Education Center, and the Foreign Language Teaching Center.								<u><b>Educational Goals :</b></u> 1. Cultivate information talents with humanistic qualities and emphasis on workplace ethics. 2. Cultivate information talents with system integration and problem-solving abilities. 3. Cultivate information talents with cross-disciplinary and international perspectives.  <u><b>Core Competencies :</b></u> 1. Cultivate students' programming abilities. 2. Cultivate students' ability to apply multimedia. 3. Cultivate students' professional capabilities in information technology and management. 4. Cultivate students' innovative and creative abilities. 5. Cultivate students' ability to integrate science, technology, humanities, and information ethics. 6. Cultivate students' ability to think logically. 7. Cultivate students' ability to cross-disciplinary learning.	<u><b>Further education :</b></u> Domestic and foreign management master's programs.  <u><b>Employment :</b></u> Integrating learning and application with the industry. Employment includes global Tzu Chi organizations, hospitals, private enterprises, management companies, and other information-related industries.		
College Courses (Required) (6)		Climate Change and Sustainable Development(2)	Advanced AI Application(2)			Value Leadership and Self-Management						
Professional Basic Courses (Required) (20)	Multimedia Design and Production(2) Introduction to Computer Science(3) Management of Mathematics(2)	Management Fundamentals(3)	Probability(2)	Statistics(2)	Business Data Communications(3)	Operating System(3)						
Professional Core Courses (Required) (17)	Programming(3)	Object-Oriented Technology(3)	Data Structure(3)	Database Management System(3)	Practical Project 1 (1)	Practical Project 2 (1)	Internship in Professional Practice(3)					
Employment Course Module I AI Big Data (Elective) (15)		Artificial Intelligence(3)	Data Mining(3)	Internet of Things(3)	Big Data Analytics(3) AI Deep Learning(3)	AIoT Practice and Application(3)	Information Visualization(3)					
Employment Course Module II Digital Multimedia (Elective) (15)		Digital Image Processing(3)	Unity Development Practice(3)	Unity Multi-Platform Application Development(3)	Video Clips(3) 3D Computer Animation(3)	Computer Animation(3)	Live Streaming and Marketing(3)					
General Elective Courses (30)		Introduction to Smart Robots(3)	Management Information System(3)	E-Service and Learning(3) Information Security Management(3)	Algorithms(3) Software Engineering(3) Project Planning(1)	Cloud Application(3) Mobile Applications Design(3) Generative Artificial Intelligence(3) System Analysis and Design(3)	Smart Health and Care(3) Full-end System Management(3) Business Process Reengineering(3)	Web Planning and Design(3) Management Literature Reading and Discussion(3) Medical Information Management(3) Mixed Reality(3) /Industry Internship (I) (9) /Industry Internship (II) (9)				
<b>The Core Required Courses of the School(33)+College Courses (Required)(6)+Professional Basic Courses (Required) (20)+Professional Core Courses (Required)(17)+Employment Course Module I AI Big Data (Elective)(15)+Employment Course Module II Digital Multimedia (Elective) (15)+General Elective Courses(27)=133 credits in total.</b>												
Course Regulations	Electives are courses offered in the current semester.											