

# 114th Academic Year Required Course List for the Department of Statistics, Undergraduate Program at Tunghai University

## A and B Classes Required Course List (Applicable to Students Entering in the 114th Academic Year)

Course	Credit	Year 1		Year 2		Year 3		Year 4		Note
		F	S	F	S	F	S	F	S	
<b>University Required Courses</b>										
Chinese	4	2	2							
Freshman English	6	3	3							
Sophomore English	4			2	2					
Exploring Computational Thinking and Generative AI	2									
Physical Education (I)										
Physical Education (2)										
<b>University General Education Courses</b>										
Humanities										
Social Sciences										
Natural Sciences										
Sustainability Practice										
The four areas of General Education, one course in the area of Sustainable Practices, and one course in each of the three areas of Humanities, Nature and Society, with a minimum of 12 credits.										
<b>Required Courses for Statistics</b>										
Calculus A (I)	3	3								
Calculus A (II)	3		3							
Statistics	6	3	3							
Economics	6	3	3							
Linear Algebra (I)	3	3								
Linear Algebra (II)	3		3							
Programming Design	3		3							
Accounting	6			3	3					
Regression Analysis	3			3						
Probability	3			3						
Survey Sampling	3				3					
Experimental Design	3				3					
Mathematical Statistics	6					3	3			
Multivariate Analysis	3					3				



Course	Credit	Year 1		Year 2		Year 3		Year 4		Note
		F	S	F	S	F	S	F	S	
🌟AI in Marketing: Technologies and Applications	3									
🌟Smart Service Innovation Practices	3									
Credits for Required Courses	100	1. <b>Regular Group Class A</b> : A total of 16 courses can be chosen from Biostatistics group, Industrial Statistics group, and Big Data group, with the option to choose 3 courses, and 2 courses can be chosen from the Management group. 2. <b>Regular Group Class B</b> : A total of 16 courses can be chosen from Biostatistics Group, Industrial Statistics Group, and Big Data Group, with the option to choose 2 courses, and 3 courses can be chosen from the Management Group. 3. Choose any 3 courses from the Big Data group; and choose any 2 courses from the cross-departmental courses 'Database,' 'Data Structures,' 'Hadoop System Design,' 'Cloud Computing' to be awarded the 'Big Data Group' certificate in the Department of Statistics.								
Credits for Elective Courses	28									
Credits for Degree Completion	128									

Note:

1. This course schedule is applicable to new students entering this academic year. Please refer to the course offering information for elective subjects.
2. Starting from the academic year 101, new students must meet the requirements of the school's regulations on graduation thresholds for physical education.