MAJOR IN INTEGRATED BUSINESS AND ENGINEERING

Curricula

	Courses	Credits
Magis Core	15	49
Business Core	12	36
Engineering Courses	8	25
Elective Courses	5	15
Total	40	125

Magis Core Curriculum for Integrated Business and **Engineering Major**

15 courses, 49 credits

Beginning with the Class of 2023, all undergraduate students will be required to complete the newly designed Magis Core Curriculum. For students entering Fairfield prior to fall 2019, please reference the Catalog Archive. Students pursuing the integrated business and engineering major will fulfill certain areas of the Magis Core by taking specified courses as outlined below. Please refer to the Curricula section of this catalog for full requirements and a detailed explanation of the Magis Core.

Tier I: Orientation

Code Mathematics	Title	Credits
MATH 1141	Calculus I for Chemistry, Engineering, and Physics Majors	4
MATH 1142	Calculus II for Chemistry, Engineering, and Physics Majors	4

Modern or Classical Language

Select one language course based on placement

Tier II: Exploration

Code	Title	Credits	
Behavioral and Social Sciences			
ECON 1011	Introduction to Microeconomics	3	
ECON 1012	Introduction to Macroeconomics	3	
Natural Science			
PHYS 1171 & 1171L	General Physics I and General Physics I Lab	4	
PHYS 1172 & 1172L	General Physics II and General Physics II Lab	4	

Business Core Requirements

12 courses: 36 credits

Title	Credits
ntroduction to Financial Accounting ¹	3
ntroduction to Management Accounting ¹	3
Business Ethics	3
Messaging and Persuasion: Effective Business Communication ¹	3
Legal Environment of Business	3
Business Analytics	3
֡	ntroduction to Financial Accounting ¹ ntroduction to Management Accounting ¹ Business Ethics Messaging and Persuasion: Effective Business Communication ¹ Legal Environment of Business

FNCE 2101	Introduction to Finance ²	3
INTL 2101	Introduction to International Business	3
MATH 2217	Statistics I ²	3
MGMT 2101	Introduction to Management ²	3
MGMT 4300	Business Strategies in the Global Environment ³	3
MKTG 1101	Principles of Marketing ²	3
Total Credits		36

- These courses should be primarily taken in the first year.
 These courses should be primarily taken in the second year.
 This course may not be taken until the senior year.

Engineering Course Requirements

8 courses; 25 credits

Code	Title	Credits
ENGR 1031	Fundamentals of Engineering ¹	3
CPSC 1101	Introduction to Computing ¹	3
ENGR 2145	Mathematical Analysis	3
ENGR 4360	Engineering Project Management	3
ENGR 4310	Industrial Quality Control	3
ELEG 2213 & 2213L	Introduction to Electric Circuits and Electric Circuits Lab	4
or MEEG 2201 & MEEG 2206L	Engineering Statics and Mechanics Lab	
Engineering Elective		3
Engineering Elective		3
Total Credits		25

Plan of Study

Course Freshman Fall	Title	Credits
ACCT 1011	Introduction to Financial Accounting	3
ECON 1011	Introduction to Microeconomics	3
MATH 1141	Calculus I for Chemistry, Engineering, and Physics Majors	4
ENGR 1031	Fundamentals of Engineering	3
PHYS 1171 & 1171L	General Physics I and General Physics I Lab	4
	Credits	17
Spring		
ACCT 1012	Introduction to Management Accounting	3
ECON 1012	Introduction to Macroeconomics	3
MATH 1142	Calculus II for Chemistry, Engineering, and Physics Majors	4
CPSC 1101	Introduction to Computing	3
PHYS 1172 & 1172L	General Physics II and General Physics II Lab	4
	Credits	17

Sophomore		
Fall		
MATH 2217	Statistics I	3
FNCE 2101	Introduction to Finance	3
MKTG 1101	Principles of Marketing (History course)	3
History course		3
ENGL 1001	Introduction to Rhetoric and Composition	3
	Credits	15
Spring		
DATA 1101	Business Analytics	3
MGMT 2101	Introduction to Management	3
INTL 2101	Introduction to International Business	3
BUSN 1101	Messaging and Persuasion: Effective Business Communication	3
Modern Language	e course	3
	Credits	15
Junior		
Fall		
ENGR 2145	Mathematical Analysis	3
Philosphy course		3
ELEG 2213	Introduction to Electric Circuits	4
& 2213L	or Engineering Statics <i>and</i> Mechanics	
or MEEG 2201 and	Lab	
MEEG 2206L		
Literature course		3
Elective course		3
	Credits	16
Spring		
ENGR 4310	Industrial Quality Control	3
BUSN 3211	Legal Environment of Business	3
Religious studies	course	3
History or Philoso	ophy or Religious Studies course	3
Elective course		3
	Credits	15
Senior		
Fall		
MGMT 4300	Business Strategies in the Global	3
	Environment	
Visual & Performi	ng Arts course	3
ENGR 4360	Engineering Project Management	3
Engineering Elect	ive	3
Elective		3
	Credits	15
Spring		
Engineering elect	ive	3
AETH 2291	Business Ethics	3
History or Philoso	pphy or Religious Studies course	3
Elective course		3
Elective course		3
	Credits	15
	Total Credits	125