# MANAGERIAL ECONOMICS, BACHELOR OF SCIENCE

**College of Agricultural & Environmental Sciences** 

### **The Major Program**

The Managerial Economics major at UC Davis is a disciplinary program combining strong preparation in microeconomic theory and quantitative methods. It prepares students for the analysis of management and policy issues in business, finance, marketing, production, agriculture, food distribution, natural resources, the environment, resource allocation, and international trade and development. Students in the Managerial Economics program develop valuable skills and strengths that lead to careers in business and government. Students specialize in one or more emphases selected from the following:

- *Business Economics* focuses on the economic aspects of managerial decision-making essential for solving problems in business, management, marketing, and finance.
- International Business Economics explores the economic drivers and policy challenges in the major emerging markets and focuses on how these markets are impacting the world economy.
- *Environmental & Resource Economics* concentrates on issues related to the use of resources and environmental quality.
- Agribusiness Economics focuses on the economic and policy aspects of the production and marketing of foods and fibers.

### **Major Advisor**

Contact Managerial Economics Student Services at manecon@ucdavis.edu or 530-754-9536.

### **Internships & Career Alternatives**

Internships for students in Managerial Economics provide additional career experience, information, and preparation in a variety of business enterprises and governmental agencies. For more information, see Career Center (http://icc.ucdavis.edu/). Managerial Economics majors have established careers in every area of business and industry, including marketing, analysis, consulting, financial services, accounting, entrepreneurship, real estate and government. Many graduates have entered advanced degree programs in business management, accounting, finance, agricultural and resource economics, economics, public policy, and law.

### **Study Abroad**

The Agricultural & Resource Economics department encourages students to complement their Managerial Economics degree with a study abroad experience. Students must seek pre-approval from a Managerial Economics staff advisor for major-related courses. A total of two upperdivision courses (maximum four units each) may be applied to major requirements. However, core courses (ARE 100A, ARE 100B, ARE 106, ARE 155, and ECN 101) are excluded. Students are expected to complete ARE 100A and STA 103 prior to taking upper-division classes abroad for the major. For more detailed instructions and a list of pre-approved Study Abroad courses, see Managerial Economics Study Abroad (https:// managerialeconomics.ucdavis.edu/education-abroad/).

### **Domestic Institutions**

Upper-division coursework taken at other four-year institutions for credit in the major must be reviewed by the Managerial Economics Lead Faculty Advisor.

### **Graduate Study**

Students who meet the admission requirements of Graduate Studies and the Department of Agricultural and Resource Economics may pursue studies leading to M.S. and Ph.D. degrees. For information on admission to graduate study and degree requirements, consult the Graduate Program Coordinator in the Department of Agricultural & Resource Economics (https://catalog.ucdavis.edu/departments-programs-degrees/ agricultural-resource-economics/).

The major requirements below are in addition to meeting University Degree Requirements (https://catalog.ucdavis.edu/undergraduateeducation/university-degree-requirements/) & College Degree Requirements (https://catalog.ucdavis.edu/undergraduate-education/ college-degree-requirements/); unless otherwise noted. The minimum number of units required for the Managerial Economics Bachelor of Science is 100.

Code	Title	Units
Major English Require	ements	
The following must b grades.	e completed with minimum C- (or PASS)	
Communication; cho	ose one:	4
CMN 001	Introduction to Public Speaking	
or CMN 001V	Introduction to Public Speaking	
OR		
CMN 003	Interpersonal Communication Competence	
or CMN 003V	Interpersonal Communication Competence	
or CMN 003Y	Interpersonal Communication Competence	
Business Writing; cho	oose one:	4
UWP 104A	Writing in the Professions: Business Writing <sup>1,2</sup>	
or UWP 104AV	Writing in the Professions: Business Writing	
or UWP 104AY	Writing in the Professions: Business Writing	
Major English Requir	ements Subtotal	8
Preparatory Subject I	Matter	
	paratory coursework must be completed PASS) grades; however, STA 103 must be le.	
Business Law		4
ARE 018	Business Law	
Management (Accoun	ting)	8
MGT 011A	Elementary Accounting	
MGT 011B	Elementary Accounting	
Economics		8
ECN 001A	Principles of Microeconomics	
or ECN 001AV	Principles of Microeconomics	
or ECN 001AY	Principles of Microeconomics	
ECN 001B	Principles of Macroeconomics	
or ECN 001BV	Principles of Macroeconomics	
Mathematics; choose	a series:	12-13

The preferred calculus series for Managerial Economics majors is MAT 019. The MAT 016 series is accepted if started prior to Fall 2024. PLS 021, PLS 021V, or ECS 032A is required with the MAT 016 series.

Depth Subject Matter Total Units		00-101
Depth Subject Matter		00-101
	SUDIO(a)	52
Agribusiness Ecor		E0
	tesource Economics (p. 3)	
	ness Economics (p. 3)	
Business Econom		
	choose at least one emphasis:	32
ECN 101	Intermediate Macro Theory	
ARE 155	Operations Research & Management Science	
ARE 106	Econometric Theory & Applications	
ARE 100B	Intermediate Microeconomics: Imperfect Competition, Markets & Welfare Economics 4	
ARE 100A	Intermediate Microeconomics: Theory of Production & Consumption (Must be completed with a minimum grade of C) <sup>3</sup>	
recommended that third year.	ust be taken for a letter grade. It is students complete core courses during their	
Core Courses		20
Depth Subject Matter		40-41
Preparatory Subject	Economics (must be taken for a letter grade)	40-41
or STA 032 STA 103	Gateway to Statistical Data Science Applied Statistics for Business &	
or STA 013V	letter grade)	
STA 013	Elementary Statistics (Must be taken for a	0
& MAT 021B & MAT 021C Statistics	and Calculus and Calculus	8
MAT 021A	Calculus	
OR choose 021 series		
MAT 017A & MAT 017B & MAT 017C	Calculus for Biology & Medicine and Calculus for Biology & Medicine and Calculus for Biology & Medicine	
<b>OR</b> choose 017 series		
& MAT 019C	and Calculus for Data-Driven Applications and Calculus for Data-Driven Applications	
MAT 019A & MAT 019B	Calculus for Data-Driven Applications	

#### 2

The upper-division composition exam will not satisfy this requirement.

#### 3

Note: ECN 100A is not accepted.

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Note: ECN 100B is not accepted.

## **Business Economics Emphasis**

Code	Title	Units
All restricted elective	s must be taken for a letter grade.	
Choose 16 units:	5	16
ARE 107	Econometrics for Business Decisions	
ARE 112	Fundamentals of Organization	
	Management	
ARE 118	Tax Accounting	
ARE 119	Intermediate Managerial Accounting	
ARE 136	Managerial Marketing	
ARE 157	Analysis for Operations & Production Management	
ARE 171	Principles of Finance <sup>1</sup>	
ARE 172	Corporate Finance <sup>2</sup>	
ARE 173	Investments	
Choose remaining 16	o units from above or the following list:	16
ARE 115A	Economic Development	
or ECN 115A	Economic Development	
ARE 115B	Economic Development	
or ARE 115BY	Economic Development	
or ECN 115B	Economic Development	
or ECN 115BY	Economic Development	
ARE 130	Agricultural Markets	
ARE 132	Cooperative Business Enterprises	
ARE 133	Introduction to Behavioral Economics	
ARE 138	International Commodity & Resource Markets	
ARE 139	Futures & Options Markets	
ARE 140	Farm Management	
ARE 143	Basics of Investing	
ARE 144	Real Estate Economics	
ARE 145	Farm & Rural Resources Appraisal	
ARE 146	Economics of Business Regulation	
ARE 150	Agricultural Labor	
ARE 156	Introduction to Mathematical Economics	
ARE 194HA	Senior Research Thesis	
ARE 194HB	Senior Research Thesis	
ECN 121A	Industrial Organization	
ECN 121B	Industrial Organization	
ECN 151B	Economics of Human Resources	
Total Units		32

Iotal Units

Formerly ARE 171A Discontinued.

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1

Formerly ARE 171B Discontinued.

### International Business Economics Emphasis

Code	Title	Units
	es must be taken for a letter grade.	00
Choose 20 units:		20
ARE 107	Econometrics for Business Decisions	20
ARE 115A	Economic Development	
or ECN 115A	Economic Development	
ARE 115B	Economic Development	
or ARE 115BY	Economic Development	
or ECN 115B	Economic Development	
or ECN 115BY	Economic Development	
ARE 138	International Commodity & Resource Markets	
ARE 139	Futures & Options Markets	
ARE 146	Economics of Business Regulation	
ARE 165	Emerging Economies & Globalization	
ARE 166	Economics of Global Poverty Reduction: What Works & Why	
ECN 160A	International Microeconomics	
ECN 160B	International Macroeconomics	
ECN 171	Economy of East Asia	
Choose the remainin	g 12 units from above or the following list:	12
ARE 130	Agricultural Markets	
ARE 171	Principles of Finance <sup>1</sup>	
ARE 172	Corporate Finance <sup>2</sup>	
ARE 173	Investments	
ARE 175	Natural Resource Economics	
or ESP 175	Natural Resource Economics	
ARE 176	Environmental Economics	
ARE 194HA	Senior Research Thesis	
ARE 194HB	Senior Research Thesis	
ECN 121A	Industrial Organization	
ECN 121B	Industrial Organization	
POL 130	Recent U.S. Foreign Policy	
Total Units		32

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101
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Formerly ARE 171A.

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2
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Formerly ARE 171B.

### Environmental & Resource Economics Emphasis

Code	Title	Units
All restricted elective	s must be taken for a letter grade.	
Choose eight units:		8
ARE 175	Natural Resource Economics	
or ESP 175	Natural Resource Economics	
ARE 176	Environmental Economics	
Choose 20 units:		20
ARE 107	Econometrics for Business Decisions	

ARE 120	Agricultural Policy
ARE 132	Cooperative Business Enterprises
ARE 138	International Commodity & Resource Markets
ARE 140	Farm Management
ARE 145	Farm & Rural Resources Appraisal
ARE 146	Economics of Business Regulation
ARE 150	Agricultural Labor
ARE 156	Introduction to Mathematical Economics
ARE 194HA	Senior Research Thesis
ARE 194HB	Senior Research Thesis
ECN 125	Energy Economics
ECN 130	Public Microeconomics
or ECN 130Y	Public Microeconomics
ESP 168A	Methods of Environmental Policy Analysis
ESP 168B	Methods of Environmental Policy Evaluation
ESP 178	Applied Research Methods
-	g 4 units from above, from any upper division 4 , or from the following list:
ESP 160	The Policy Process
ESP 161	Environmental Law
ESP 163	Energy & Environmental Aspects of Transportation
or ECI 163	Energy & Environmental Aspects of Transportation
ESP 167	Energy Policy
ESP 171	Urban & Regional Planning
ESP 172	Public Lands Management
ESP 173	Land Use & Growth Controls
ETX 138	Legal Aspects of Environmental Toxicology
Total Units	32

## **Agribusiness Economics Emphasis**

Code	Title	Units
All restricted elective	s must be taken for a letter grade.	
Choose 8 units:		8
ARE 120	Agricultural Policy	
ARE 140	Farm Management	
ARE 150	Agricultural Labor	
Choose 16 units:		16
ARE 107	Econometrics for Business Decisions	
ARE 120	Agricultural Policy	
ARE 121	Economics of Agricultural Sustainability	
ARE 130	Agricultural Markets	
ARE 132	<b>Cooperative Business Enterprises</b>	
ARE 138	International Commodity & Resource Markets	
ARE 139	Futures & Options Markets	
ARE 140	Farm Management	
ARE 145	Farm & Rural Resources Appraisal	
ARE 150	Agricultural Labor	

Total Units	32
division course in ARE or ECN.	
Choose the remaining 8 units from above or from any upper	

### **Exceptions to All Emphases**

The following courses do not apply toward any emphasis:

Code	Title	Units
ARE 113	Fundamentals of Marketing Management	4
ARE 135	Agribusiness Marketing Plan Development	2
ARE 142	Personal Finance	3
ARE 147	Resource & Environment Policy Analysis	3
ARE 147M	Resource & Environmental Policy Analysis	2
ECN 102	Analysis of Economic Data	4
ECN 134	Financial Economics	4
or ECN 134Y	Financial Economics	
ECN 140	Econometrics	4
ECN 151A	Economics of the Labor Market	4
ECN 162	International Economic Relations	4

## **Completing More Than One Emphasis**

Courses may overlap between emphases. Requirements must be fulfilled as outlined in each emphasis with a minimum of 32 units.

## **Major GPA**

Students must attain a major GPA of at least a C average (2.000) in courses taken for depth subject matter (core and restricted electives). These courses must be taken for a letter grade. All restricted elective courses taken will be calculated as part of the major GPA, including courses with F grades that have not been repeated.