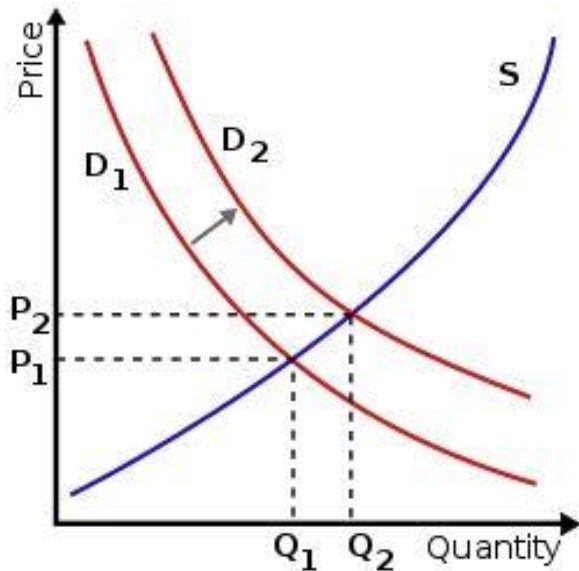




Clarkson™

## Student Handbook 2021-22



# Bachelor of Science in Mathematical Economics

Interdisciplinary Major with Reh School of Business  
and Clarkson University Mathematics Department



## BACHELOR OF SCIENCE IN MATHEMATICAL ECONOMICS ACADEMIC INFORMATION

Mathematical economics is the application of advanced mathematical methods to microeconomics and macroeconomics. Students will participate in a rigorous course of study in mathematics, economics, and the interaction between these two disciplines. Students will learn a broad range of economic theories and mathematical techniques that, together, will enable the students to apply rigorous analytical (empirical and/or theoretical) techniques to contemporary issues in economics, finance and beyond. Beyond core classes in each area, students have the freedom to direct their study towards areas of their own interest, including: Economic Theory, Data Analytics, Financial Analysis, and others. Students are able to fulfill the complete set of core Business classes as well, in which case they are well-prepared for managerial careers in the private sector, as well as for the pursuit of graduate education in business, in addition to their expertise in Economics and Mathematics.

Students who choose to major in Mathematical Economics will be able to:

- apply advanced mathematical methods to problems in the economic sciences
- use statistical and econometric techniques to analyze data related to economic and other phenomena
- build and analyze theoretical models which provide guidance about economic and other policies
- critically read the scientific literature in the economic sciences

They will be prepared for, among other things:

- advanced graduate study in the fields of mathematics and/or economics
- careers in economic policy and consulting
- training in the field of actuarial sciences
- careers in applied mathematics and statistics
- careers as quantitative financial analysts

### Program Requirements:

Students must complete 120 credits in course work including satisfaction of the University Common Experience Requirements, as well as the major requirements cited below. All course work must be completed in accordance with the academic procedures of the University and the College governing undergraduate scholarship and degrees.

### Minimum Grade Requirements

A grade of 'C-' or better must be achieved in each MA, STAT and EC course applied towards the degree requirements. Students must obtain a grade point average of 2.0 or higher in all MA, STAT and EC courses combined.

**For more information about the Mathematical Economics Major contact either:**



Dr. Michael Sacks  
Assistant Professor, Economics & Financial Studies  
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Professor, Chair of Mathematics  
Mathematics Department – 355 Science Center  
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E-mail: [jskufca@clarkson.edu](mailto:jskufca@clarkson.edu)

**Mathematics requirements (at least 27 credit hours)**

- MA 131 -- Calculus I: Cr. 3
- MA 132 -- Calculus II: Cr. 3
- MA 200 -- Introduction to Mathematical Modeling & Software: Cr. 3
- MA 211 -- Discrete Mathematics and Proof: Cr. 3 (Communication pts: 2)
- MA 231 -- Calculus III: Cr. 3
- MA 232 -- Elementary Differential Equations: Cr. 3
- MA 339 -- Applied Linear Algebra: Cr. 3
- STAT 383 -- Probability and Statistics: Cr. 3
- At least one additional MA or STAT course numbered above 300

**Economics requirements (at least 24 credit hours)**

- EC 150 -- Principles of Microeconomics: Cr. 3
- EC 151 -- Principles of Macroeconomics: Cr. 3
- EC 311 -- Introduction to Econometrics: Cr. 3
- EC 313 -- Mathematical Economics: Cr. 3 (Communication pts: 2)
- EC 357 -- Intermediate Microeconomics: Cr. 3
- EC 358 -- Intermediate Macroeconomics: Cr. 3
- At least two additional courses with an EC course prefix.

**Recommended MA electives:**

- MA331 -- Fourier Series & Boundary Value Problems: Cr. 3
- MA332 -- Intermediate Differential Equations: Cr. 3
- MA363 -- Mathematical Modeling: Cr. 3 (Communication pts: 2)
- STAT381 -- Probability: Cr. 3
- STAT382 -- Mathematical Statistics: Cr. 3
- STAT384 -- Advanced Applied Statistics: Cr. 3

**Recommended EC electives:**

- EC 360 -- Environmental Economics: Cr. 3
- EC 367 -- International Economics: Cr. 3
- EC 370 -- Economics of Innovation/Entrepreneurship: Cr. 3
- EC 384 -- Game Theory and Economic Strategy: Cr. 3
- EC 451 -- Industrial and Supply Chain Economics: Cr. 3
- EC 468 -- Financial Markets and Institutions: Cr. 3
- EC 475 -- Personnel Economics: Cr. 3

Students who intend to pursue a career in actuarial sciences or graduate studies in economics are encouraged to take additional mathematics and economics courses. Recommended mathematics courses are any of the above MA or STAT courses. Recommended economics courses are any of the above EC courses.

## Bachelor of Science in Mathematical Economics

### 8 Semester Plan

<b>First Year — First Semester</b>			<b>First Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr.Hrs.
EC150	Prin. of Microeconomics (EC)	3	EC151	Prin. of Macroeconomics (EC)	3
MA131	Calculus I	3	MA200	Math Modelling and Software	3
UNIV190	Clarkson Seminar	3	MA132	Calculus II	3
	Science Course	3		Knowledge Area Course	3
	Knowledge Area Course	3		Science Course w/lab	3
	First-Year Seminar	1			
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>
<b>Second Year — First Semester</b>			<b>Second Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr. Hrs.
EC313	Mathematical Economics	3	EC358	Intermediate Macroeconomics	3
STAT383	Probability and Statistics	3	EC311	Econometrics	3
MA231	Calculus III	3	MA232	Elementary Differential Equations	3
	Free Elective (TECH)	3		Free Elective	3
	Free Elective	3		Free Elective	3
	<b>Total</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>
<b>Third Year — First Semester</b>			<b>Third Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr.Hrs.
MA211	Discrete Mathematics and Proof	3	MA339	Applied Linear Algebra	3
EC357	Intermediate Microeconomics	3	ECXXX	Econ Elective	3
	Knowledge Area Course	3		Free Elective (C1)	3
	Free Elective	3		Free Elective	3
	Free Elective	3		Knowledge Area: Univ course	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>
<b>Fourth Year — First Semester</b>			<b>Fourth Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr. Hrs.
MA3XX	Math Elective	3	ECXXX	Econ Elective	3
	Free	3		Free Elective	3
	Free Elective (C2)	3		Free Elective (C1)	3
	Free Elective	3		Free Elective	3
	Free Elective	3		Free Elective	3
	<b>Total</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

## Student Advising Worksheet – Clarkson University

STUDENT:

GRAD DATE:

STUDENT ID #:

PHONE #:

MAJOR: **Mathematical Economics**

OTHER INFO:

GPA:

MINOR(S):

COMMON EXPERIENCE COURSES				
Title	Course	Term	Grade	Notes
The Clarkson Seminar	UNIV190			
Mathematics (Calculus I)	MA131			
Mathematics (Probability & Statistics)	STAT383			
Science				
Science with a lab				
First Year Seminar**	FY100			1 credit

Free Electives				
Title	Course	Term	Grade	Notes
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				

EXTRA COURSEWORK (IF ANY)							
Course	Term	Grade	Notes	Course	Term	Grade	Notes

KNOWLEDGE AREAS & COMMUNICATION POINTS				
	KNOWLEDGE AREA	KA Course	COMM Course	Points (6)
1	Economics & Organizations (EC)	EC 150	MA211	C2
2			EC313	C2
3				
4				
5	UNIVERSITY Course (/)			

Students must complete **at least 5 knowledge area courses** that cover 4 of the following 6 knowledge areas:

- Contemporary & Global Issues (CGI)
- Cultures & Society (CSO)
- Imaginative Arts (IA)
- Science, Technology & Society (STS)
- Economics & Organizations (EC)
- Individual & Group Behavior (IG)

One of these five courses must be University Course that has two knowledge area designators (UNIV)

Students must complete a total of **at least 6 communication points**.

Mathematical Economics				
Title	Course	Term	Grade	Notes
Microeconomics	EC 150			KA/EC
Macroeconomics	EC 151			KA/EC
Introduction to Econometrics	EC311			
Intermediate Microeconomics	EC357			
Intermediate Macroeconomics	EC358			
Mathematical Economics	EC313			C2
Professional Economics Elective	ECXXX			
Professional Economics Elective	ECXXX			
Calculus II	MA132			
Intro to Mathematical Modeling	MA200			
Discrete Mathematics and Proof	MA211			C2
Calculus III	MA231			
Elementary Differential Equations	MA232			
Applied Linear Algebra	MA339			
Math Elective – see list below	MAXXX			
Free Elective				
Free Elective (Tech)				
Knowledge Area				
Knowledge Area				
Knowledge Area				
Knowledge /UNIV Course				

**PROFESSIONAL ECONOMICS ELECTIVES : (choose 2)**

Any 300 level or higher Economics course. Recommended Econ courses:  
 EC360 - Environmental Economics (pre-req: EC/EM150 or EC350)  
 EC367 - International Economics (pre-req: at least one course in EC)  
 EC370 - Economics of Innovation (pre-req: EC150 and soph std)  
 EC384 - Game Theory and Econ Strategy (pre-req: EC/EM150 or EC350)  
 EC451 - Industrial & Sup Chain Econ (pre-req: EC150 or EC350 & MA131)  
 EC468 - Financial Markets & Institutions (pre-req: FN361)  
 EC475 - Personnel Economics (pre-req: EC150)

**RECOMMENDED MATH COURSES: (choose 1)**

MA331 - Fourier Series & Boundary Value (pre-req: MA231 & MA232)  
 MA332 - Intermediate Differential Equations (pre-req: MA231 & MA232)  
 MA363 - Mathematical Modeling (pre-req: MA231, MA232 & PH132) (C2)  
 STAT381 - Probability (pre-req: MA231 or MA230 (MA211 recommended))  
 STAT382 - Mathematical Statistics (pre-req: MA/STAT381)  
 STAT384 - Advanced Applied Statistics (MA231 & Stat 383)

PROFESSIONAL EXPERIENCE	GLOBAL STUDY REQUIREMENT
Date Completed:	Date Completed:
Company/Org:	Location:
Notes:	Notes:

Notes:

**Bachelor of Science in Mathematical Economics with Double Major Option with *Business* (not required)**

**8 Semester Plan (Business Core)**

<b>First Year — First Semester</b>			<b>First Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr.Hrs.
EC150	Principles of Microeconomics (KA:EC)	3	EC151	Prin. of Macroeconomics (KA:EC)	3
SB113	Entrepreneur and Business Inn. I (C1)	3	AC202	Financial Accounting	3
UNIV190	Clarkson Seminar	3	MA132	Calculus II	3
	Science Course	3		Knowledge Area Course	3
MA131	Calculus I	3		Science Course w/lab	3
	First-Year Seminar	1			
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>
<b>Second Year — First Semester</b>			<b>Second Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr. Hrs.
IS211	Intro to Enterprise Info Systems (TECH)	3	Stat383	Probability and Statistics	3
AC203	Managerial Accounting	3	MK320	Principles of Marketing	3
MA231	Calculus III	3	OS352	Strategic Human Resource Mgmt	3
OS286	Organizational Behavior (KA:IG)	3	MA200	Intro to Mathematical Modeling	3
EC313	Mathematical Economics	3	EC358	Intermediate Macroeconomics	3
	<b>Total</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>
<b>Third Year — First Semester</b>			<b>Third Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr.Hrs.
EC357	Intermediate Microeconomics	3	MA232	Elementary Differential Eq	3
FN361	Financial Management I	3	ECXXX	Econ Elective	3
OM331	Oper & Supply Chain Mgmt	3		Knowledge Area Course	3
EC311	Introduction to Econometrics	3		Free Elective	3
MA211	Discrete Math. &Proof	3		Knowledge Area: Univ course	3
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>
<b>Fourth Year — First Semester</b>			<b>Fourth Year — Second Semester</b>		
Course	Title	Cr. Hrs.	Course	Title	Cr. Hrs.
MA339	Applied Linear Algebra	3	OS432	Organiz. Policy & Strategy (C2)	3
ECXXX	Econ Elective	3	MAXXX	Math Elective	3
LW270	Law and Society I	3		Free Elective	3
	Free Elective	3		Free Elective (C1)	3
	Free Elective	3		Free	3
	<b>Total</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

# Student Advising Worksheet (Business Core/Double Major Option) *(not required for Math Econ)*

## Clarkson University School of Business

STUDENT: \_\_\_\_\_  
 STUDENT ID #: \_\_\_\_\_  
 MAJOR: **Mathematical Economics**  
 GPA: \_\_\_\_\_

GRAD DATE: \_\_\_\_\_  
 PHONE #: \_\_\_\_\_  
 OTHER INFO: \_\_\_\_\_  
 MINOR(S): \_\_\_\_\_

COMMON EXPERIENCE COURSES				
Title	Course	Term	Grade	Notes
The Clarkson Seminar	UNIV190			
Mathematics (Calculus)	MA131			
Mathematics (*Statistics)	STAT383			
Science				
Science with a lab				
First Year Seminar**	FY100			1 credit

SCHOOL OF BUSINESS CORE COURSES				
Title	Course	Term	Grade	Notes
Entrepreneurship & Bus Inn I or PE				
Microeconomics	EC 150			EC
Macroeconomics	EC 151			EC
Financial Accounting	AC 202			
Managerial Accounting	AC 203			
Law & Society I	LW 270			
Intro to Bus Intell & Data Analytics	IS 110			TECH
Organizational Behavior	OS 286			IG
Introduction to Econometrics	EC311			
Financial Management	FN 361			
Operations & Supply Chain Mgmt	OM 331			
Principles of Marketing	MK 320			
Strategic Human Resource Mgmt	OS 352			
Organizational Policy & Strategy	OS 432			C2

EXTRA COURSEWORK (IF ANY)							
Course	Term	Grade	Notes	Course	Term	Grade	Notes

KNOWLEDGE AREAS & COMMUNICATION POINTS				
	KNOWLEDGE AREA	KA Course	COMM Course	Points (6)
1	Economics & Organizations (EC)	EC 150	OS 432	2
2	Individual & Group Behavior (IG)	OS 286		
3				
4				
5	UNIVERSITY Course ( / )			

Students must complete **at least 5 knowledge area courses** that cover 4 of the following 6 knowledge areas:

- Contemporary & Global Issues (CGI)
- Cultures & Society (CSO)
- Imaginative Arts (IA)
- Science, Technology & Society (STS)
- Economics & Organizations (EC)
- Individual & Group Behavior (IG)

One of these five courses must be University Course that has two knowledge area designators (UNIV)

Students must complete a total of **at least 6 communication points**.

Mathematical Economics				
Title	Course	Term	Grade	Notes
Intermediate Microeconomics	EC357			
Intermediate Macroeconomics	EC358			
Mathematical Economics	EC313			
Professional Economics Elective	ECXXX			
Professional Economics Elective	ECXXX			
<b>Calculus II</b>	<b>MA132</b>			
<b>Intro to Mathematical Modeling</b>	<b>MA200</b>			
Discrete Mathematics and Proof	<b>MA211</b>			C2
<b>Calculus III</b>	<b>MA231</b>			
<b>Elementary Differential Equations</b>	<b>MA232</b>			
<b>Applied Linear Algebra</b>	<b>MA339</b>			
<b>Math Elective – see list below</b>	<b>MAXXX</b>			
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
Free Elective				
<b>Non-Business/KA</b>				
<b>Non-Business/KA</b>				
<b>Non-Business/UNIV Course</b>				

### PROFESSIONAL ECONOMICS ELECTIVES : (choose 2)

Any 300 level or higher Economics course. Recommended Econ courses:  
 EC360 - Environmental Economics (pre-req: EC/EM150 or EC350)  
 EC367 - International Economics (pre-req: at least one course in EC)  
 EC370 - Economics of Innovation (pre-req: EC150 and soph std)  
 EC384 - Game Theory and Econ Strategy (pre-req: EC/EM150 or EC350)  
 EC451 - Industrial & Sup Chain Econ (pre-req: EC150 or EC350 & MA131)  
 EC468 - Financial Markets & Institutions (pre-req: FN361)  
 EC475 – Personnel Economics (pre-req: EC150)

### RECOMMENDED MATH COURSES: (choose 1)

MA331 - Fourier Series & Boundary Value (pre-req: MA231 & MA232)  
 MA332 - Intermediate Differential Equations (pre-req: MA231 & MA232)  
 STAT381 - Probability (pre-req: MA231 or MA230 (MA211 recommended))  
 STAT382 - Mathematical Statistics (pre-req: MA/STAT381)  
 STAT384 - Advanced Applied Statistics (MA231 & Stat 383)

PROFESSIONAL EXPERIENCE	GLOBAL STUDY REQUIREMENT
Date Completed:	Date Completed:
Company/Org:	Location:
Notes:	Notes:

### NOTES

Semester Exchange, UNIV399, and UNIV267 will satisfy the global study requirement. For other options, consult your advisor.

Courses in **BOLD** satisfy NYS 50% non-business course requirement.

\*\*FY100 is required for 1st year students only and does not count towards the 120 credit hour graduation requirement.

# Required Global Study

A global experience is required for graduation for **Mathematical Economics Students**. Globalization is today. Employers are seeking graduates who understand culture & diversity and to have had first-hand exposure.

We offer two options: semester exchange and short term faculty led trips.

<b>Type of Travel</b> <i>Informational website</i>	<b>Semester Exchange</b> <i>clarkson.edu/internationalcenter/</i>	<b>Short-term Faculty-led trips</b> <i>internal.clarkson.edu/business/gbp/</i>
<b>When ?</b>	Usually done junior year	Anytime during your academic career
<b>Length of Experience</b>	4-5 months	2-3 weeks
<b>Cost</b>	Financial aid is not affected. Tuition is paid to Clarkson, while students are expected to pay for passport/visa fees, airfare, food, housing & extra excursions with left over aid.	\$3,800 - \$4,500 (approx.) Includes: airfare, ground transport, accommodations, breakfast, company visits, local lectures, social/cultural activities, administrative fees & identity card. Excludes: passport fee, most meals, special excursions & personal expenses.
<b>Earned Credits</b>	Courses are approved for transfer before departure. If students plan ahead with their advisor, the abroad semester Will not affect graduation date.	3-credits (Univ 399) counted as a University Course that satisfies knowledge areas: Cultures and Societies (CS) and Contemporary Global Issues (CGI)  Each program requires students to attend a 1 hour pre-class once a week for the duration of the semester before the trip.
<b>Acceptance</b>	An application must be completed, including a letter of reference and an interview.	An application must be completed. Notification of approval will be given shortly after.

## Semester Exchange

A semester exchange is usually completed in the junior year through exchange programs that Clarkson has with various universities throughout the world. Students are expected to apply through the International Center during their sophomore year with the expectation of study during their junior year. Prior to departure, an Off-Campus Course Work Permission form must be completed and approved for each course. In addition, "Good Standing" status is a requirement. To find out more details, contact the International Center or visit their Web site at: <http://www.clarkson.edu/internationalcenter/>

**Visit our Fall International Fair!** Each fall the School of Business hosts an informational session to highlight all of the International program offerings that are offered through the International Center and faculty led trips for the upcoming year. The International Center will also host information sessions about our semester exchange options. **Some of our Partner Schools include:**



France



Spain



China



England

## Past Spring/Fall Trip Choices included:



Australia



Thailand



Croatia



Germany



**MATHEMATICAL ECONOMICS**  
**PROFESSIONAL EXPERIENCE REQUIREMENT: SB 310 OR MA 499 (0 CREDIT)**

The Professional Experience requirement of the Clarkson Common Experience curriculum is the following:

“All students participate in a project-based professional experience such as co-op, internship, directed research, or community project clearly related to the student’s professional goals.”

**Professional Experience Objectives**

**Students should develop an appreciation of the need for self-motivated, life-long learning:**

1. Students should understand the need for continuously updating their professional skills after graduation.
2. Students should demonstrate learning effectively on their own.

**Students should develop an increased social awareness and interpersonal competence:**

3. Students should demonstrate leadership skills such as goal setting, change management, ethical behavior, and providing actionable feedback,
4. Students should demonstrate teamwork skills such as building effective relationships with peers, being a collaborative team member, and identifying and managing team conflict,
5. Students should demonstrate an understanding of the value of service to the University, to the community, or to the profession.

**Students can fulfill this requirement by one of the following**

**(It is expected that students will work at least 150 hours towards this requirement):**

**Option A:** A meaningful professional experience, such as an internship in industry or a government facility, among others. This would typically take place during the summer, but could be a semester co-op assignment.

**Option B:** Serving as a leader or taking on a role with significant responsibility in a professional or community service organization or in another volunteer activity

**Option C:** Participation in an independent project under the direction of a qualified mentor. This could be at Clarkson or elsewhere, could be a summer experience or during the academic year, could be for pay or for course credit (not both).

**Step 1 – Identify and define your proposed experience. Be sure to utilize the Career Center Resources.**

**Step 2 – Gain approval for your experience by submitting your pre-approval information through your Handshake account.**

**Step 3 – Once approved, Mathematical Economics majors can register for the Professional Experience – see below.**

**SB310 – Reh School of Business Professional Experience: Internship Credits: (0)** Project-based professional internship experience related to student career interests and/or field of study. Completion of course requires University approval of post-internship assessment by student and employer. Students can complete this internship during the spring, summer, or fall semester. Offered Pass/No Credit.

**MA499 – Mathematics Professional Experience: Internship Credits: (0)** The requirement can be satisfied in a number of ways including internships or co-ops with appropriate professional content, participation in REU programs, a mathematical honors thesis, teaching assistance in mathematics, active participation in professional societies including attendance at regional or national conferences and presentation of work at such. Directed study or research courses that lead to such presentations would also satisfy the requirement. Check with the Math department for specific requirements. Offered Pass/No Credit.

**Step 4 – Complete your post assessment in Handshake. Your supervisor can submit their evaluation through Handshake. Upon completion you be granted a P grade for SB 310 or MA499. You are required to show SB310 or MA 499 with a P grade on your transcript in order to meet degree requirements.**

## **MATHEMATICAL ECONOMICS CAREER INFORMATION**

Mathematical economics is a model of economics that utilizes math principles and methods to create economic theories and to investigate economic quandaries. Mathematics permits economists to conduct quantifiable tests and create models to predict future economic activity.

Economists often wrestle with competing models capable of explaining the same recurring relationship called an empirical regularity, but few models provide definitive clues to the size of the association between central economic variables. From Main Street to Wall Street to Washington, this is what matters most to policymakers. When setting monetary policy, for example, central bankers want to know the likely impact of changes in official interest rates on inflation and the growth rate of the economy. It is in cases like this that economists turn to econometrics.

Source: *Investopedia* – Investopedia.com

The starting average salary for a graduate with this degree ranges from \$62,000 to \$68,000.

## **CHARACTERISTICS OF SUCCESSFUL STUDENTS**

Students graduate with highly valued analytical skills, and will be able to integrate that knowledge with a deeper understanding of the business world. This combination of mathematics and economics knowledge makes Mathematical Economics graduates both highly competitive on the job market and excellent candidates for graduate school.

## **CAREER POSSIBILITIES**

- Actuary
- Bank Examiner
- Budget and Finance Manager
- Claims Examiner
- Data Scientist
- Economist
- Financial Analyst
- Financial Planner
- International Trade Specialist
- Investment Manager
- Management Accountant
- Marketing Manager
- Market Research Analyst
- Marketing/Sales Manager
- Professor
- Real Estate Investor
- Statistician
- Teacher

## **COMPANIES THAT HIRE**

- Absolutdata
- Addepar
- Allegiant Travel
- Amazon
- Ancestry
- Apple
- Avalere Health
- Bloomberg
- CareSource
- Citco
- Central Garden & Pet Company
- Credit Acceptance Corporation
- Fannie Mae
- Federal Reserve Bank of Philadelphia
- Flow Traders
- Gap Inc.
- Heineken USA
- Just Energy
- Management Consulting & Research
- Murtech Consulting
- Nationwide
- Nasdaq

### **COMPANIES THAT HIRE continued**

- NCSA – Next College Student Athlete
- Nestle Waters North America
- Nextwave Enterprises Oriental Trading Company
- PEMCO Insurance
- Pentagon Federal Credit Union
- Preferred Mutual
- Quicken Loans
- Quad Capital Advisors
- Rapid Advance
- RetailMeNot
- Salesforce
- Taco Bell
- T-Mobile
- Toshiba Global Commerce Solutions
- Transamerica
- Travelers Companies
- Uber
- United Auto Credit Corp.
- USAA
- Vanguard
- Volkswagen Group of America
- Walmart eCommerce
- Wells Fargo

\* source: Glassdoor

### **RELATED PROFESSIONAL GROUPS**

- American Economic Association
- American Mathematical Society
- Institute for Operations and the Management Sciences
- Mathematical Society of America
- National Bureau of Economic Research
- Occupational Outlook Handbook - [www.bls.gov](http://www.bls.gov)
- Society of Actuaries
- Society for Industrial and Applied Mathematics

### **MATHEMATICAL ECONOMICS WEBSITES**

- Intelligent Economist - [www.intelligenteconomist.com](http://www.intelligenteconomist.com)
- Journal of Mathematical Economics:  
[www.journals.elsevier.com/journal-of-mathematical-economics](http://www.journals.elsevier.com/journal-of-mathematical-economics)
- Lectures in Quantitative Economics - <https://lectures.quantecon.org/>
- O\*NET [www.onetonline.org](http://www.onetonline.org)