UCSC MASTERS PROGRAM IN APPLIED ECONOMICS AND FINANCE

November 29, 2022
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These slides will be posted at https://economics.ucsc.edu/academics/graduate-program/masters/admissions/index.html
Program structure and overview

- One-year program (9 months + 3 weeks required math camp)
- Capstone exam

The program combines **core training** in economic theory with **meaningful applications** that students are likely to face in their professional careers in business, government, non-profit.

- **More applied** orientation than a typical M.A. program in economics.
- **More training** in economics, statistics, and econometrics than most M.B.A. programs.
- Stresses **mastery of core principles** in micro and macroeconomics and finance.
- Each student learns how to **solve practical problems** and to **communicate** the results clearly.

The emphasis on **advanced econometric techniques**, statistical software **packages**, and large-scale financial and microeconomic **datasets**.
Where do our students go after graduation?

Business

- Bloomberg
- Citi
- Genentech
- Deloitte
- Morgan Stanley
- Zillow
- Apple
- Toyota
- PwC
- Bank of America
- Yahoo!
- Amazon
- Target
- EY
- China
- HSBC
- Santa Cruz County Bank
- YouTube
- Turtle Bay
- TCL
- KPMG
- Bank of China
- Expedia
- Pacific Gas and Electric Company
- ZipRecruiter
- Sound Pharmaceuticals
Where do our students go after graduation?

**Government**
- State Bar of California
- County of Fresno
- Judicial Council of California
- Louisiana Department of Health
- Federal Reserve Bank of San Francisco
- Sunnyvale Community Services
- City of Pasadena
- State Compensation Insurance Fund

**Universities**
- University of Calgary
- Stanford Institute for Economic Policy Research
- UCSC
- NYU
And what do they do there?
Requirements

- Math camp (can test out)
- 9 5-unit courses
- 3 labs (2 required one optional)
- Professional development seminars

- Capstone exam in one of the three tracks
  - Applied Economics
  - Finance
  - General
Courses offered (this year, subject to change): Fall

- **All:**
  - Micro Analysis (200), Finance 1 (233), Applied Econometrics 1 (216), Stata lab (294A);

*5-unit courses are in bold*
Courses offered (this year, subject to change): Winter

○ **All:**
  - Choice of Econometrics (217 or 114/114L), R lab (294A), Professional development seminar (294B);

○ **Applied track:**
  - Public policy analysis (259B), another elective or 2 electives

○ **Finance track:**
  - one or both: Financial Institutions and Markets (234) Corporate Finance (235), other electives

○ **General track:**
  - Any two electives

*5-unit courses are in **bold**
Courses offered (this year, subject to change): Spring

- **All:**
  - Macroeconomic analysis (202), Professional development seminar (294B).

- **Applied track:**
  - Micro Applications (201), Financial Engineering (236) or another elective

- **Finance track:**
  - Financial Engineering (236), Micro Applications (201), International Financial Management (231), or another elective

- **General track:**
  - Micro Applications (201), Financial Engineering (236)

*5-unit courses are in **bold**
Faculty (teaching this year)
Electives options

- **Economics**
- **Applied Math**
- **Computer Science and Engineering**
- **Environmental Studies**
- **Statistics**

- Intermediate Accounting I
- Intermediate Accounting II
- Intermediate Accounting III
- Machine Learning for Economists
- Management in the Global Economy
- Advanced Econometrics III
- International Financial Management
- Financial Institutions and Markets
- Corporate Finance
- Market Design: Theory and Pragmatics
- Public Policy Analysis
Electives options

- Economics
- **Applied Math**
- Computer Science and Engineering
- Environmental Studies
- Statistics
Electives options

- Economics
- Applied Math
- **Computer Science and Engineering**
- Environmental Studies
- Statistics

Courses:

- Advanced Programming
- Machine Learning
- Analysis of Algorithms
- Combinatorial Algorithms
- Data Mining
- Management of Technology II
- E-Business Technology and Strategy
- Information Retrieval
- Random Process Models in Engineering

- Beginning Programming in Python
- Introduction to Data Structures and Algorithms
- Introduction to Analysis of Algorithms
- Introduction to Database Management Systems
Electives options

- Economics
- Applied Math
- Computer Science and Engineering
- Environmental Studies
- Statistics

National Environmental Policy
Electives options

- Economics
- Applied Math
- Computer Science and Engineering
- Environmental Studies
- Statistics

- Applied Bayesian Statistics
- Intermediate Bayesian Inference
- Intermediate Bayesian Statistical Modeling
- Linear Statistical Models
- Spatial Statistics
Professional development seminar

- Alumni speakers
- CV writing
- Job search
- Other professional skills
Three tracks: capstone exam requirements

1. Applied economics
   - 200, 201, 216, 217, \textcolor{red}{259B}
   - Must complete 4 of 5 sections of the capstone exam.

2. Finance
   - 233, 236, \textcolor{red}{231, 234, 235}
   - Must complete sections 233, 236 and 2 of 3 electives

3. General
   - 200, 201, 233, 236
Application considerations (apply here)

- **Deadline**
  - One deadline - February 28

- **Is there financial aid available?**
  - Yes! Students enrolled in the program may receive $2,000-4,000 in aid (approximately 30%), merit-based.
  - TA positions may be available, but not guaranteed

- **What score do I need to get on the GRE?**
  - Required
  - An average of 160 in the quantitative section of the GRE and/or 45.6 on the GMAT.

- **What is the average GPA requirement?**
  - The average GPA of admitted students is 3.33
  - The minimum GPA accepted is 3.0
Where to get your questions answered?

- Program web site (in progress of update): https://economics.ucsc.edu/academics/graduate-program/masters/index.html
- Galina Hale - program director gbhale@ucsc.edu
- Graduate program coordinator ecnqrdr@ucsc.edu