

Welcome! Students Exploring Economics

Let's see what
Economics at Carolina
is all about.

Faculty, Teaching Assts, and staff
of the Economics Department
are eager to meet you,
and to share with you
the learning (and fun)
that takes place here.



On the steps of Gardner Hall

What do we offer inside these doors?



Front Entrance of Gardner Hall

Our Undergraduate Program

Economics
is one of the largest majors
in the College of Arts & Sciences.

We offer two degrees:

BA in Economics
BS in Economics

“What is economics?”

*Isn't it about investing in stocks
or something about unemployment rates and inflation rates?*

Well yes, and no.

Economics is, first and foremost,

a way of thinking about

behaviors of and relationships between

individuals, firms, and governments.





Ability to gather, organize, manipulate, and interpret data.
Enjoy drilling down, finding relationships.

Ability to understand relationships, to use theory to view situations,
to think conceptually, rather than in specifics.

Ability to analyze problems, to propose solutions,
and to create models that predict impacts.

Ability to translate complex findings for understanding
and to communicate clearly both orally and in writing.

Ability to learn about new products, industries, regions, and/or business models.

*Faculty and staff
are here
(or an email away)
to help you
navigate your
course decisions!*



The Main Office

The BA and BS* Degrees

*Classified as a STEM degree program

Required ECON courses

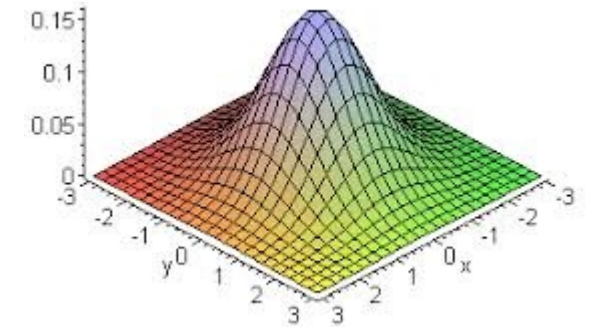
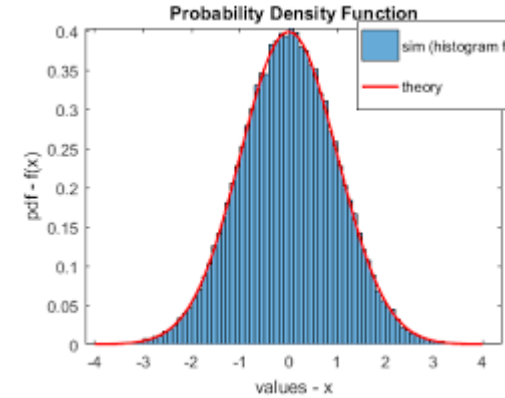
- ECON 101 Intro to Economics
- ECON 400 Intro to Statistics and Econometrics
- ECON 410 Intermediate Micro Theory
- ECON 420 Intermediate Macro Theory
- **ECON 470 Econometrics**

Required non-ECON courses

- MATH 231 Calculus of Functions of One Variable I
 - or one of STOR 113, STOR 112, MATH 152 (for BA majors)
- **MATH 232 Calculus of Functions of One Variable II**
- **MATH 233 Calculus of Functions of Several Variables**

Elective ECON courses

- **Four/Five** courses at the 400+ level, including **one/two** 500+ courses



Elective non-ECON courses (two of the following)

- **COMP 110 Intro to Programming**
or **COMP 116 Intro to Scientific Programming**
- **MATH 347 Linear Algebra for Applications**
- **MATH 381 Discrete Mathematics**
- **STOR 415 Intro to Optimization**
- **STOR 435 Intro to Probability**

BA = A total of 9 courses for 30 credit hours

BS = A total of 15 courses for 50 credit hours

Sample Plan for completing the BS Degree

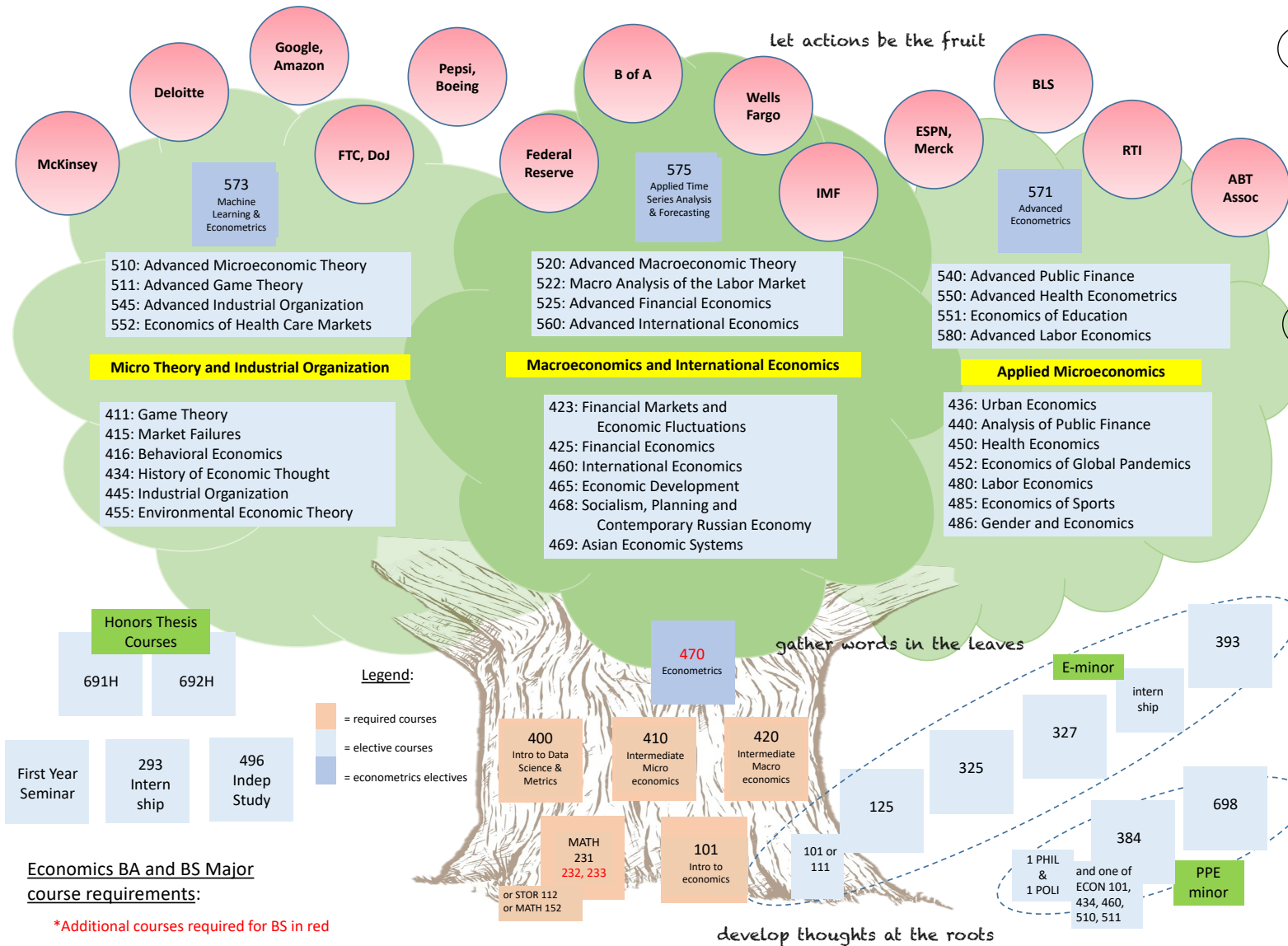
Semester 1	Semester 2
ECON 101 MATH 231	ECON 410 MATH 232
Semester 3	Semester 4
ECON 400 MATH 233	ECON 470 ECON 420
Semester 5	Semester 6
ECON elective ECON elective	ECON elective Non-ECON elective
Semester 7	Semester 8
ECON elective Non-ECON elective	ECON elective



Our Elective Courses

Game Theory
Behavioral Economics
Market Failure
Industrial Organization
Environmental Economics
Public Finance
International Economics
Economic Development
Asian Economic Systems
Soviet/Post-Soviet Systems

Financial Markets
Econometrics
Time Series Analysis
Big Data & Machine Learning
Labor Economics
Health Economics
Economics of Education
Gender and Economics
Sports Economics
Urban Economics
Family Economics



Economics BA and BS Major course requirements:

**Additional courses required for BS in red*

- MATH 231 (or MATH 152 or STOR 112), 232, 233
- 101, 400, 410, 420, 470
- Four/*five* elective courses at the 400+ level
- Electives must include one/*two* at 500-level
- *Two of the following non-ECON electives:*
COMP 110 or 116, MATH 347, 381, STOR 415, 435

The study of economics, like a tree, begins as a solid foundation with roots in the soil, then branches out in many directions, and yields much fruit (produced with patience... and a little weathering of the storms).

A UNC-CH Economics Major through the lens of a tree...

5 **Reap the Rewards** of a good foundation and enhanced understanding and application

- If interested in pursuing a Ph.D. in Economics, talk to a faculty member about supplemental courses

4 **Build upon the Foundation** through opportunities in our Department

- Senior honors thesis (ECON 691H, 692H)
- Study Abroad
- Exchange Program (NUS joint degree)
- DATA Science Credential (370, 470, 571/3/5)
- EconAid Center
- Undergraduate Learning Assistant (ULA)
- Carolina Economics Club
- Women in Economics
- Fed/FDIC Challenge Teams
- Summer Research Fellowships
- Adventures in Economics
- UnderRepresented Majors (URM) Funding
- Internship/Recruiting Fair

3 **Develop Breadth** with applications in elective & capstone courses

1 **Structure your Education** in Economics with a solid foundation of required courses

Learning about Inflation is really fun ...



Running Inflation



Deflation



Stagflation



(Hard) Core Inflation

especially when
that topic
falls on Halloween!

The Economics Department at Carolina introduces

**The DATA (Data-Acumen-Theory-Application) Science
Credential in Economics**

in-demand data skills, guided by theory, applied to economics

(combining the “what” with the “why” & “how”)

Practical and Marketable Skills

Introduction to commonly-used programming languages (e.g., R/Python) and practical data skills: collecting, scraping, cleaning, merging, processing, and visualizing data, descriptive analysis, optimization, and supervised/unsupervised statistical learning.

Synergy, Application, and Experience

Gain experience in combining these data skills with foundational knowledge of economics to frame and solve economic questions using real data from finance, industry, government, health, environment, among others.



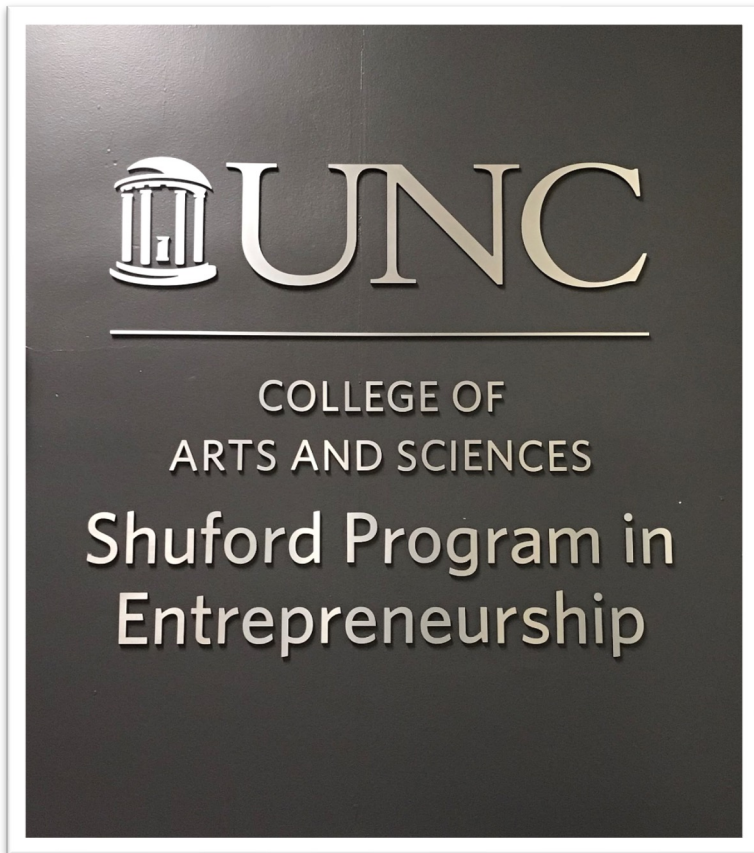
The
DATA (Data-Acumen-Theory-Application)
Science Credential in Economics

Credential Requirements:

- Courses:
 - ECON 370: Economic Applications of Data Science
 - ECON 470: Econometrics
 - ECON 573: Big Data and Machine Learning
or ECON 571: Advanced Econometrics
or ECON 575: Applied Time Series Analyses and Forecasting
- Seminars:
 - Attendance at seminars of invited speakers from industry (~3 per semester) to learn about practice of data science and to provide opportunities for career networking.

Minor Programs associated with Economics

**The Philosophy, Politics,
and Economics (PPE) Minor**



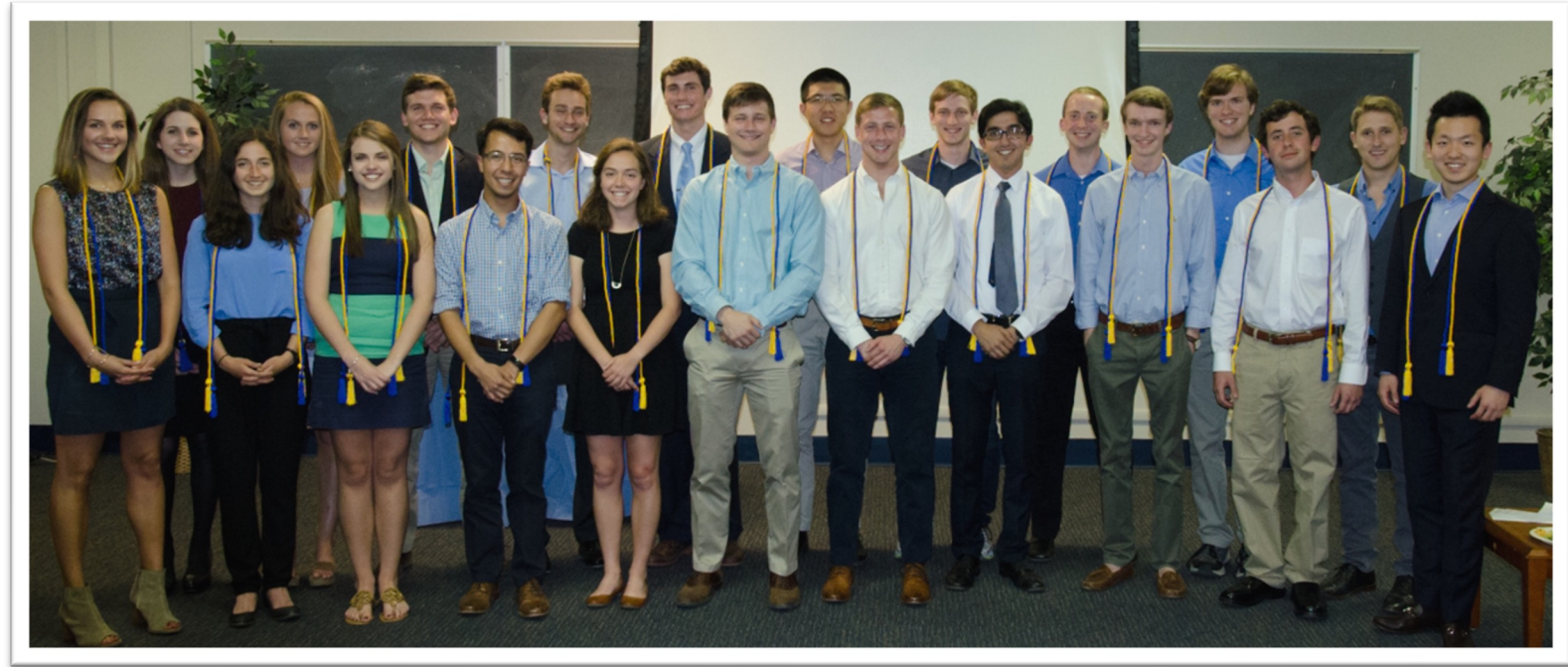
The Entrepreneurship Minor



Learning Opportunities for Students

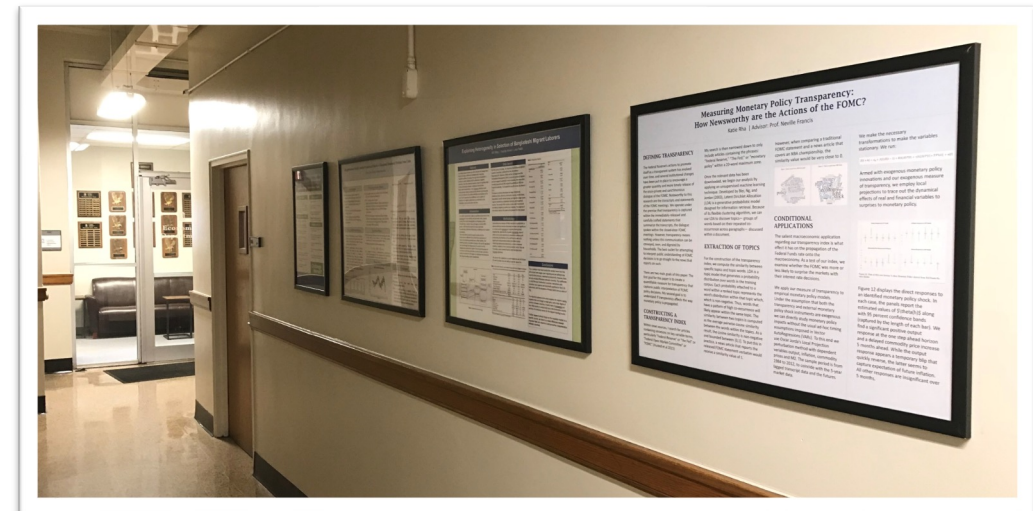
- Career Preparation for Econ Majors (ECON 292)
- Internship Program (ECON 293)
- Data Science Credential (ECON 370, 470, 571/573/575)
- Study Abroad/Exchange Programs

Research Opportunities



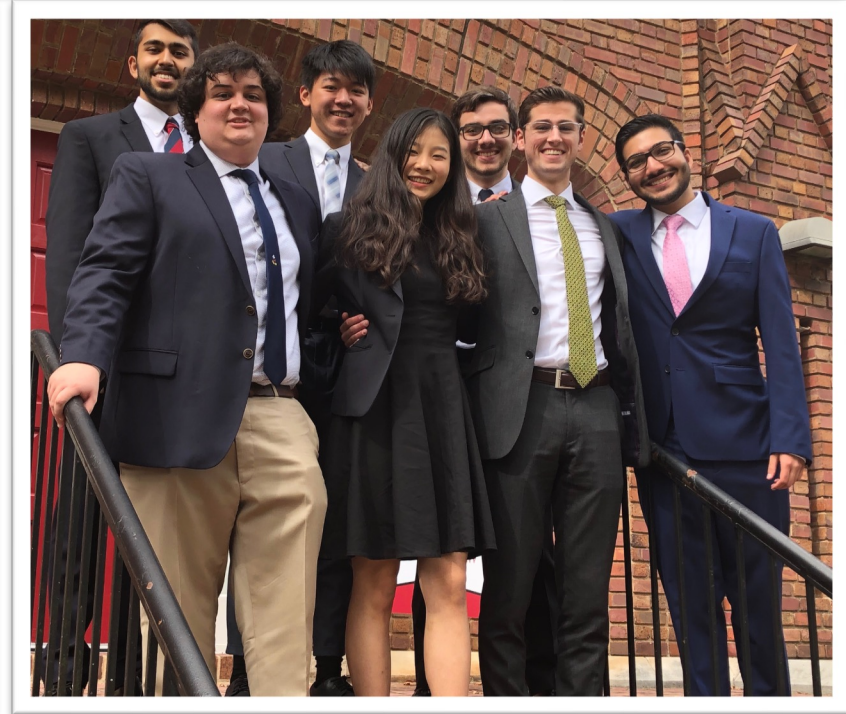
- 500-level Experiential Education & Research courses
- Senior Undergraduate Honors Thesis
- Summer Faculty-led Research Opportunities
- Undergraduate Research Assistant
- Undergraduate Research Journal *Ceteris Paribus*

Economics on Display



Enrichment Opportunities

- Carolina Economics Club
- Women in Economics
- UNC Fed/FDIC Challenge
- Adventures in Economics
- UnderRepresented Majors Experiences



Supporting Resources

- Office Hours with Professors
- Undergraduate Learning Assistants
- Peer Tutoring Program
- Econ Dept Advisory Board
- EconAid Center





EconAid Center

A **space** for free, drop-in tutoring with undergraduate peer tutors.

A **space** for professors, TAs, and ULAs to hold office hours and help sessions.

A **space** for economics students to study.

“What can I do with an economics degree?”

Just about anything.

With good training (on our part) and good effort (on your part), you should graduate with several marketable skills under your belt:

- the ability to think about optimal allocation given scarce resources
- an understanding of uncertainty and the ability to interpret statistics
- analytical skills that allow you to draw reasonable conclusions
- an openness or curiosity about observed behaviors
- the ability to make solid arguments not based on judgments
- training to design policy or make recommendations for solving economic problems



Looking ahead:

- Private Firms: IBM, Google, Amazon
 - Mgmt Consulting: McKinsey, BCG, Deloitte
 - Economic Consulting: Cornerstone, NERA, Bates White
 - Financial Sector: Bank of America, Wells Fargo, Capital One
 - Investment/Mgmt: Goldman Sachs, Blackstone, Blackrock
 - Contract Research: RTI, Mathematica, ABT Associates
 - US Govt Agencies: FTC, FCC, DoJ, BLS, Federal Reserve
 - International Agencies: World Bank, IMF, IDB
-
- Masters in Analytics
 - Masters in Accounting
 - Ph.D. in Economics

Gardner Hall



Nothin' could be finer
than to be in Carolina...

and studying
economics!

Thank you attending our Information Session!

If you have any questions
please email us at:

ECON_UndergradProgram@unc.edu

We look forward
to exploring your interests
in economics with you!