Bart Hobijn and Cara McDaniel

A Research-Focused Curriculum for Economics Majors
Choosing a research-focused curriculum

Four pillars of a research-focused curriculum

• Development areas to prepare you for research

Course portfolio to consider

• Courses that provide a research-focus to curriculum.

Extra-curricular development

• Soft-skills that are often acquired outside of class room.

Post-graduation career choices

• Think ahead and let us help you if we can.
Four pillars of a research-focus
Build on the right foundation...

Economics

Math  Stats  Writing  Interpersonal
Many useful math courses on offer

MAT 270 *Calculus with Analytic Geometry* instead of MAT 210
MAT 271 *Calculus II* instead of MAT 211
MAT 272 *Calculus III*

**Additionally**

MAT 275 *Modern Differential Equations*
MAT 300 *Mathematical structures*
  * Proof writing course and upper-division literacy
MAT 342/3 *Linear Algebra*
MAT 371* *Advanced Calculus*
MAT 410* *Introduction to Topology*
MAT 472/3* *Real Analysis I & II*

*ambitious courses*
Probably good to take stats courses

- **STP 420 Introductory Applied Statistics**
  - instead of ECN 221 or STP 226

- **ECN 425 Econometrics**

**Additionally**

- **STP 421 Probability**
- **STP 425* Stochastic Processes**
- **STP 427 Mathematical Statistics**

*ambitious courses
Computer and coding experience

Take classes that Include coding and teach programming
Develop your writing skills

Economics

ECN 493 Honors thesis
ECN 475 Capstone

Writing courses available

ENG 215 Strategies of Academic Writing
Work on your soft skills

Economics

Becoming a successful research professional goes beyond course work
Build your soft skills
Economics is the icing on top

ECN 214 Honors Microeconomics

ECN 213 Honors Macroeconomics

4 ECN 3/400-level courses, 2 ECN 400-level courses*
Select courses with research faculty when possible

ECN 416 Game theory
ECN 441 Public Economics
ECN 413 Advanced Microeconomics
ECN 414 Advanced Macroeconomics
ECN 479 Experiments in Economics
ECN 494 Economic topics

* WPC students must take ECN 306 or ECN 436 or ECN 438
ECN 493 Honors thesis counts
Putting this all in four years….

Freshman
- Fall: MAT 270 Calculus with Analytic Geometry
- Spring: ECN 214 Honors Microeconomics (pre-co-reg: MAT 271)

Sophomore
- Fall: MAT 271 Calculus II
- Spring: MAT 272 Calculus III
- Fall: STP 420 Introductory Applied Statistics
- Spring: ECN 213 Honors Macroeconomics (ECN 214 first)

Junior
- Fall: ECN 425 Econometrics (pre-reg ECN 214 or 312 and statistics)

Senior
- Fall
- Spring
Get credit for your AP credit

- **Freshman**
  - Fall: Calculus with Analytic Geometry (MAT 270)
  - Spring: Calculus II (MAT 271)

- **Sophomore**
  - Fall: Honors Microeconomics (pre-co-req: MAT 271)
  - Spring: Calculus III (MAT 272)

- **Junior**
  - Fall: Honors Macroeconomics (ECN 213)
  - Spring: AP credit for ECN 211 and 212 may take ECN 312 and 313

- **Senior**
  - Fall: Introductory Applied Statistics
  - Spring: Econometrics (ECN 314 or 312 and statistics)
Don’t delay econometrics...

Completing ECN 425 sophomore year will allow for research opportunities junior and senior year.
Fulfill requirements in Jr & Sr years

**Freshman**
- Fall: Calculus with Analytic Geometry (MAT 270)
- Spring: Calculus II (MAT 271)

**Sophomore**
- Fall: Calculus III (MAT 272)
- Spring: Pre-calculus Statistics (STP 420)

**Junior**
- Fall: Economics (ECN 425)
  - Econometrics (pre-req: ECN 214 or 312 and statistics)
- Spring: Economics courses
  - 4 ECN 3/400-level courses, 2 ECN 400-level courses*
  - Select courses with research faculty when possible
  - ECN 416 Game theory
  - ECN 441 Public Economics
  - ECN 413 Advanced Microeconomics
  - ECN 414 Advanced Macroeconomics
  - ECN 479 Experiments in Economics
  - ECN 494 Economic Topics
  - ECN 475 Capstone

**Senior**
- Fall: Economics courses
  - WPC students must take ECN 306 or ECN 436 or ECN 438
  - ECN 493 Honors thesis counts
Add some math & stats sauce

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Hobijn McDaniel  04/27/18

ASU-Economics-Advising
Pursue research/teaching opportunities

Do research for faculty, tutor other students, or assist faculty with teaching

Fill in sign-up sheet or reply to department email to be added to list of undergraduate students interested in research/teaching assistantships

We will notify you of job openings in the department that fit your research profile

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Get faculty recommendation letter

Most impactful letters of recommendation are from faculty with which students have had a working relationship.

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Research-focused career after ASU

Research assistantships at government agencies

- Federal reserve, CBO, CEA, Treasury, State & Local

Directly moving on to grad school

- Apply for PhD programs Need GRE score and recommendation letters

Private sector research assistantships/jobs

- Think tanks, financial sector, consultancy, industry
Choosing a research-focused curriculum

Start planning your course portfolio now

- It is about which courses you take, more than about GPA
- Take math and stats courses in addition to economics

Extra-curricular development

- Soft-skills that are often acquired outside of class room
- Be able to effectively communicate your knowledge

Apply to work with faculty

- Sign up for econ research-focused students list
- Build a working relationship with faculty
- Get their support when applying for jobs/grad school