#### **Bart Hobijn and Cara McDaniel**

### A Research-Focused Curriculum for Economics Majors

Hobijn McDaniel 04/27/18

ASU-Economics-Advising

## 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.

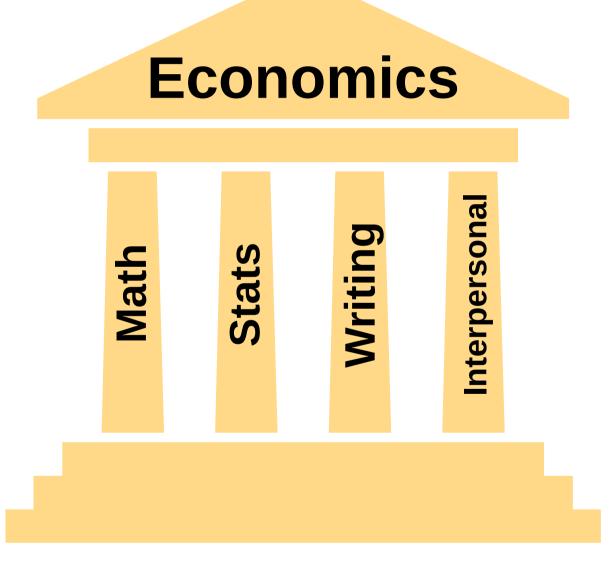
#### **Post-graduation career choices**

• Think ahead and let us help you if we can.

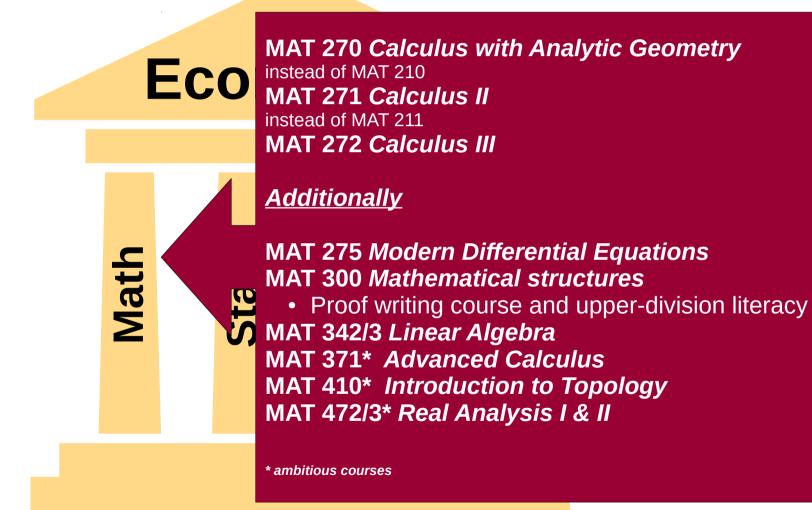
### Four pillars of a research-focus



## Build on the right foundation...



### Many useful math courses on offer



### Probably good to take stats courses



Stats

Math

**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**

### **Economics**

Ots

St

Math

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

Writing

Interpersonal

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### Work on your soft skills

### **Economics**

Becoming a successful research professional goes beyond course work

Build your soft skills

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Interpersonal

### Economics is the icing on top

#### **Economics**

ECN 214 Honors Microeconomics

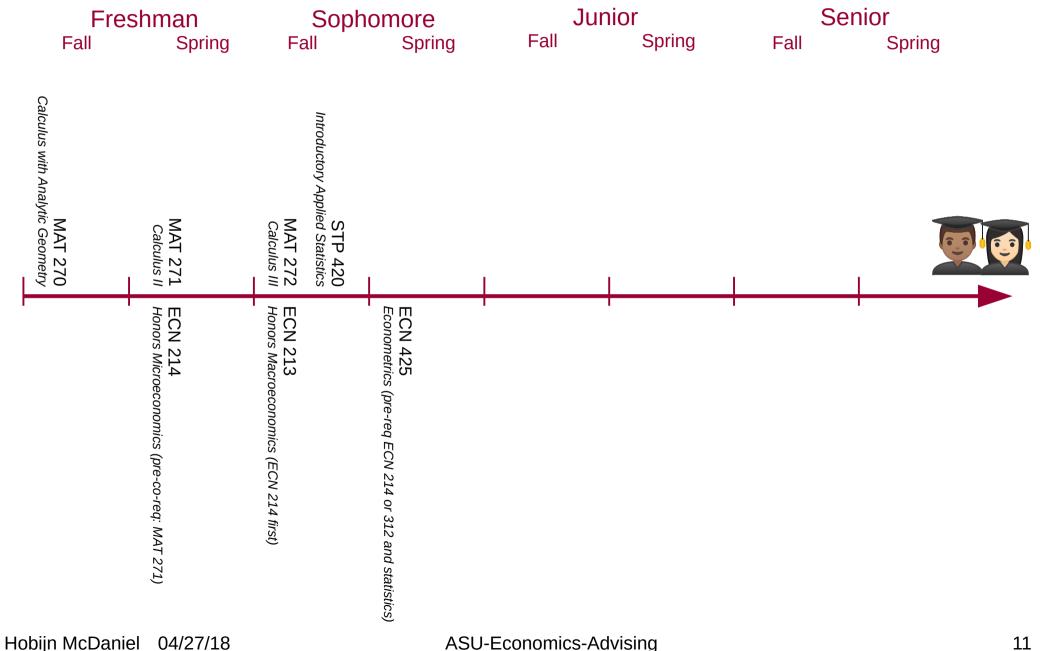
ECN 213 Honors Macroeconomics

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

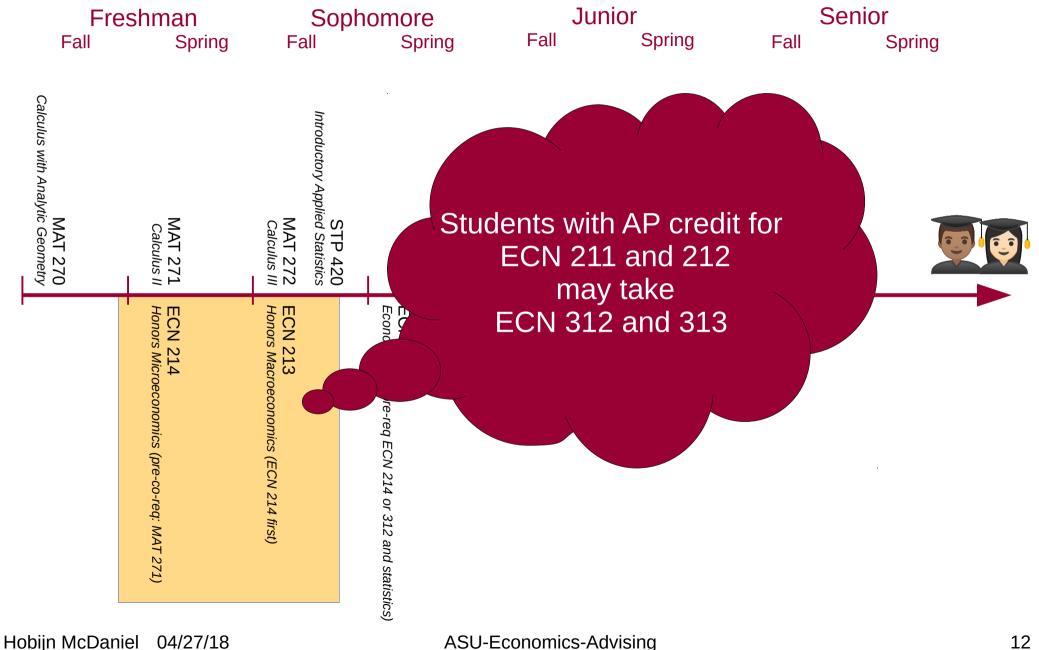
ECN 416 Game theory ECN 441 Public Economics ECN 413 Advanced Microeconomics ECN 414 Advanced Macroeconomics ECN 479 Experiments in Economics ECN 494 Economic topics

\* WPC students must take ECN 306 or ECN 436 or ECN 438 ECN 493 Honors thesis counts

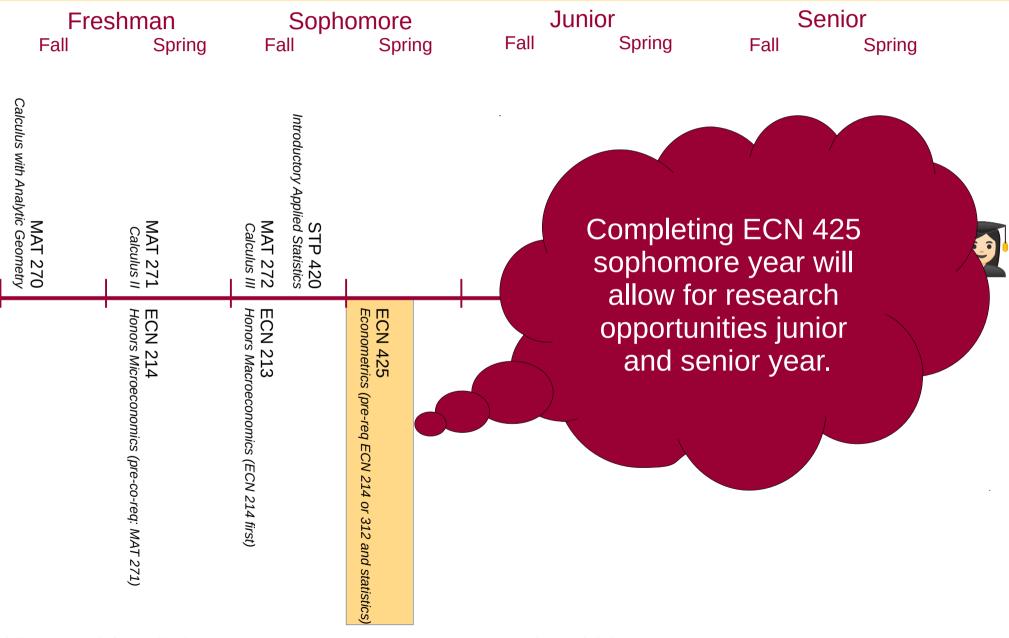
# Putting this all in four years....



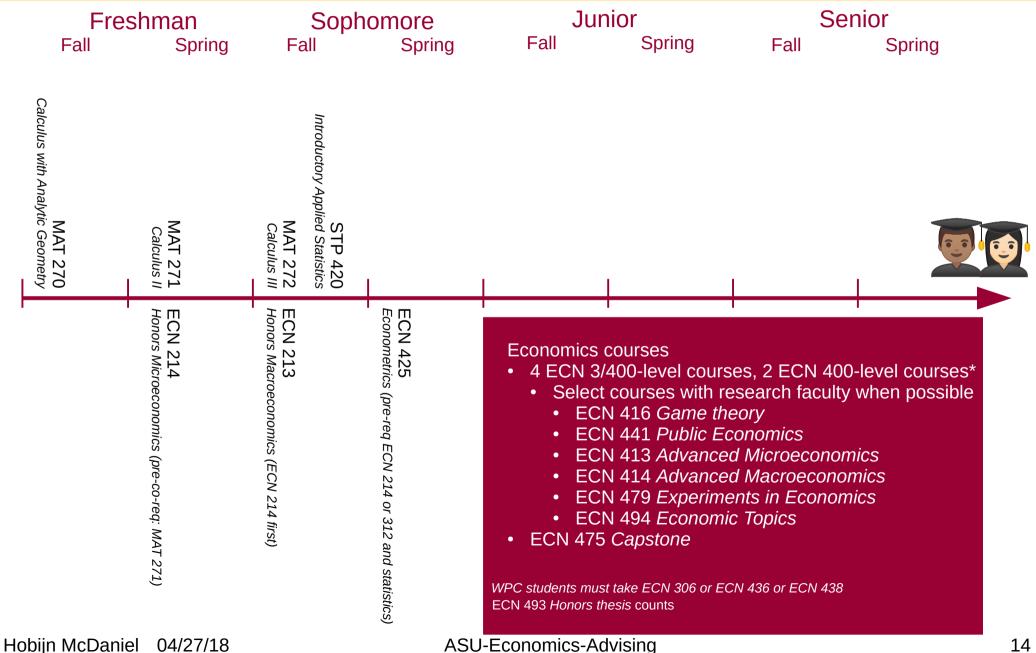
## Get credit for your AP credit



## Don't delay econometrics...



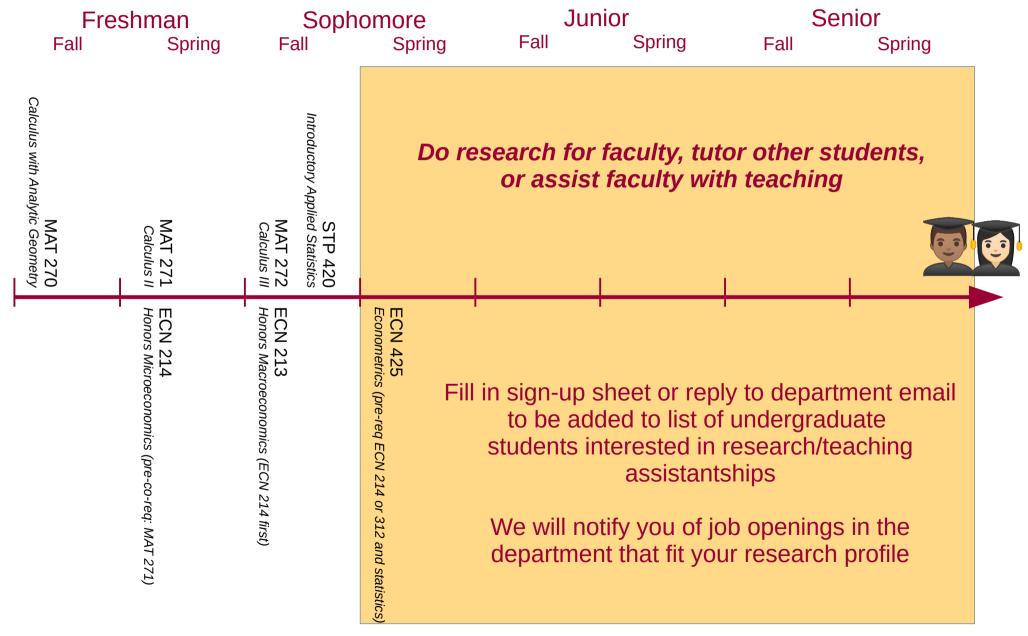
# Fulfill requirements in Jr & Sr years



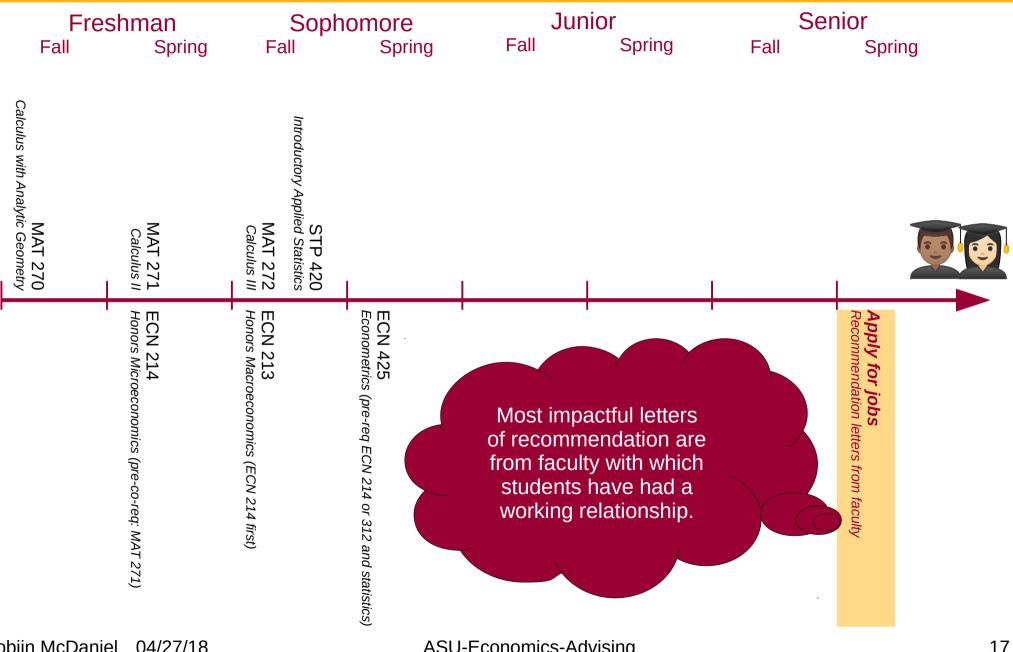
### Add some math & stats sauce

Freshman Fall Spring		Sophomore Fall Spring		Junior Fall Spring	Senior Fall Spring	
MAT 270 Calculus with Analytic Geometry	MAT 271 Calculus II	STP 420 Introductory Applied Statistics MAT 272 Calculus III	<ul> <li>MAT 275</li> <li>MAT 300</li> <li>MAT 300</li> <li>MAT 342/3</li> <li>MAT 371</li> <li>MAT 410</li> <li>MAT 410</li> <li>MAT 472/3</li> <li>STP 421</li> <li>STP 425*</li> <li>Prerequise</li> <li>STP 427</li> </ul>	Modern Differential Equations Mathematical structures 3 Linear Algebra Advanced Calculus Introduction to Topology 3* Real Analysis I & II Probability Stochastic Processes ite MAT 371 and STP 421 Mathematical Statistics te STP 420 + STP 421		
	ECN 214 Honors Microeconomics (pre-co-req: MAT 271)	ECN 213 Honors Macroeconomics (ECN 214 first)	ECN 425 Econometrics (pre-req ECN 214 or 312 and statistics)	Economics courses • 4 ECN 3/400-level cours • Select courses with re • ECN 416 Game the • ECN 416 Game the • ECN 411 Public Economic • ECN 413 Advanced • ECN 414 Advanced • ECN 479 Experime • ECN 479 Experime • ECN 494 Economic • ECN 475 Capstone	esearch faculty eory conomics d Microeconom d Macroeconon ents in Economi c Topics	when possible ics nics
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# Pursue research/teaching opportunitities



## Get faculty recommendation letter



### **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