



## A A E 771 section 001 Syllabus

### Microeconomics of Resources and Energy: Theory to Practice

#### COURSE INFORMATION

Microeconomics of Resources and Energy: Theory to Practice

A A E 771 001 ( 3.0Credits )

Fall 2018-2019 [1192]

##### Description

Applying economic theory to the practice of resource and energy demand analysis. Topics include consumer demand theory and the proper modeling of demand systems, theoretical underpinnings of behavioral economics, welfare theory, cost benefit analysis and cost-effectiveness analysis, and technology adoption and diffusion. Enroll Info: None

##### Prerequisite(s)

Declared in the Resource and Energy Demand Analysis program

##### Instruction Mode

Classroom Instruction

**Department:** AGRICULTURAL AND APPLIED ECON

**College:** Agriculture and Life Sciences

#### Canvas Course URL

<https://canvas.wisc.edu/>



2018-2019 Fall [1192]

**Term Start Date:** Wednesday, 5-Sep-2018 **Term End Date:** Wednesday, 2-Jan-2019

**Location and Schedule:** Taylor Hall B30 MW 11:00 AM-12:15 PM

**CRN:** 108024287

##### How the Credit Hours are Met

This class meets for two 75-minute class periods each week over the semester and carries the expectation that students will work on course learning activities (reading, writing, problem sets, studying, etc) for about 3 hours out of classroom for every class period. The syllabus includes more information about meeting times and expectations for student work.

#### INSTRUCTORS AND TEACHING ASSISTANTS

##### Instructor



Guanming SHI

[✉ GSHI@WISC.EDU](mailto:GSHI@WISC.EDU)

##### Instructor Availability

Tuesday and Thursday 12:15-1pm, or by appointment.

##### TA Office Hours

Matt Klein, 316 Taylor Hall, Email: [mjklein2@wisc.edu](mailto:mjklein2@wisc.edu)

OH: TBA

#### GRADING AND COURSE MATERIALS

##### Course Learning Outcomes (CLOs)

- 1 - To acquaint students with formal models of economic problems such as production and consumption allocations and the efficiency consequences;  
[S6507]

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- 2 - To develop students' analytical and mathematical skills for conducting such analyses;  
[S6508]

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- 3 1. Learn the basic framework of cost-benefit analysis  
[S6509]

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- 4 3. Learn how to critically analyze environmental and energy problems as well as proposed solutions;  
[S6510]

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- 5 5. Learn how to account for equity considerations.  
[S6511]

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## Grading

Homework	40%
Midterm Exam	30%
Final Exam	30%

Grading Scale: 100-90 A, 89-85 AB, 84-76 B, 75-72 BC, 71-63 C, 62-56 D, 55-0 F

## Laboratory Sessions

## Required Textbook, Software, & Other Course Materials

The primary "textbook" is the detailed lecture notes specifically designed for this class. They are posted on the class website (in a timely manner).

## EXAMS, QUIZZES, PAPERS & OTHER MAJOR GRADED WORK

### Homework & Other Assignments

There will be four problem sets, which should be handed in during class on the due date. Students may form study groups to work on the homework, but you must *turn in a write-up that represents your own work and understanding of the material*. Verbatim (or suspiciously similar) copies of homework answers will be considered cheating.

## OTHER COURSE INFORMATION

### Other Course Information

## ACADEMIC POLICIES

- ACADEMIC INTEGRITY**
- By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison's community of scholars in which everyone's academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to <https://conduct.students.wisc.edu/academic-integrity/>

## **ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES**

**McBurney Disability Resource Center syllabus statement:** “The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student’s educational record, is confidential and protected under FERPA.” <http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php>

## **DIVERSITY & INCLUSION**

**Institutional statement on diversity:** “Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.” <https://diversity.wisc.edu/>