

# AGRICULTURAL AND APPLIED ECONOMICS: RESOURCE AND ENERGY DEMAND ANALYSIS, M.S.

This is a named option within the Agricultural and Applied Economics M.S. (<http://guide.wisc.edu/graduate/agricultural-applied-economics/agricultural-applied-economics-ms/>)

This one-year master’s program prepares students for challenging and rewarding careers in the fields of energy, resource, and environmental management. REDA provides graduate training for a smart green world. Our students learn economic theory and quantitative methods in data analysis; attend seminars on current issues in energy and natural resources delivered by industry professionals; and solve real-world research problems. Many REDA alumni are working with energy utilities and energy consulting firms.

Our small class size means students get plenty of individual attention from faculty and staff. The cohort nature of our program fosters peer-to-peer learning and a culture of intellectual curiosity. Completion of this fast track masters requires 31 credits and does not include a thesis. The program begins with a summer online course, continues with two semesters of on-campus courses, and concludes with a research project the following summer. Learn more (<http://reda.aae.wisc.edu/>).

## ADMISSIONS

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website. Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet** the minimum requirements (<https://grad.wisc.edu/apply/requirements/>) **of the Graduate School as well as the program(s)**. Once you have researched the graduate program(s) you are interested in, apply online (<https://grad.wisc.edu/apply/>).

Requirements	Detail
Fall Deadline	This program does not admit in the fall.
Spring Deadline	The program does not admit in the spring.
Summer Deadline	March 31
GRE (Graduate Record Examinations)	Required.
English Proficiency Test	Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements ( <a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a> ).
Other Test(s) (e.g., GMAT, MCAT)	n/a

Letters of Recommendation Required 2

Our priority application deadline is January 15th for enrollment the following summer. For details on the REDA Application Process, please go to this link:

To Apply (<http://reda.aae.wisc.edu/apply/>)

## FUNDING

### GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (<https://grad.wisc.edu/funding/>) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

### PROGRAM RESOURCES

Students in the Resource and Energy Demand Analysis (REDA) program are not permitted to accept tuition-waiving assistantships or seek double or dual degrees.

REDA offers partial scholarships to exceptional applicants. Learn more (<http://reda.aae.wisc.edu/apply/>).

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), in addition to the program requirements listed below.

### NAMED OPTION REQUIREMENTS

#### MODE OF INSTRUCTION

Face to Face	Evening/Weekend	Online	Hybrid	Accelerated
No	No	No	Yes	Yes

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW-Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

## CURRICULAR REQUIREMENTS

### Requirements Detail

Minimum Credit Requirement 31 credits

Minimum Residence Credit Requirement 16 credits

Minimum Graduate Coursework Requirement All credits in the curriculum are in graduate-level coursework.

Overall Graduate GPA Requirement 3.00 GPA required.

Other Grade Requirements Students must maintain a minimum GPA of 3.00 in any course taken as a graduate student, unless probationary admission conditions require higher grades. Students must earn grades of B or above in the core REDA courses: A A E 636, A A E 772, and A A E 776.

Assessments and Examinations None.

Language Requirements No language requirements.

## REQUIRED COURSES

Code	Title	Credits
<b>Summer Session (Jul–Aug)</b>		
A A E 770	Introduction to Quantitative Methods in Resource and Energy Economics (Online)	3
<b>Fall Semester (Sep–Dec)</b>		
A A E 636	Applied Econometric Analysis I	3
A A E 771	Microeconomics of Resources and Energy: Theory to Practice	3
A A E 777	Survey and Sample Design in Applied Economics	2
A A E 773	Seminar in Resource and Energy Demand Analysis	1-2
PUB AFFR/ ENVIR ST/ URB R PL 809	Introduction to Energy Analysis and Policy	3
<b>Spring Semester (Jan–May)</b>		
A A E 772	Applied Econometrics of Resource and Energy Demand	4
A A E 773	Seminar in Resource and Energy Demand Analysis	1-2
A A E 643	Foundations of Environmental and Natural Resource Economics	3
Select one of the following:		3
A A E/ECON/ ENVIR ST/ URB R PL 671	Energy Economics	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	

A A E 774	Practicum in Resource and Energy Demand Analysis I	1
<b>Summer Session (May–Jun)</b>		
A A E 776	Practicum in Resource and Energy Demand Analysis II	3
Total Credits		30-32

## POLICIES

### GRADUATE SCHOOL POLICIES

The Graduate School's Academic Policies and Procedures (<https://grad.wisc.edu/acadpolicy/>) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

### NAMED OPTION-SPECIFIC POLICIES

#### PRIOR COURSEWORK

##### Graduate Work from Other Institutions

With program approval, students are allowed to count no more than 6 credits of graduate coursework from other institutions. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

##### UW–Madison Undergraduate

With program approval, students are allowed to count no more than 7 credits of undergraduate coursework numbered 300 or above from UW–Madison. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

##### UW–Madison University Special

No credits earned as a UW–Madison University Special student may be applied toward the program requirements.

#### PROBATION

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

#### ADVISOR / COMMITTEE

The REDA program director and REDA program coordinator will serve as co-advisors for all REDA students.

#### CREDITS PER TERM ALLOWED

15 credits

#### TIME CONSTRAINTS

Master's degree students who have been absent for five or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

#### GRIEVANCES AND APPEALS

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (<https://doso.students.wisc.edu/bias-or-hate-reporting/>)
- Graduate Assistantship Policies and Procedures (<https://hr.wisc.edu/policies/gapp/#grievance-procedure>)
- Hostile and Intimidating Behavior Policies and Procedures (<https://hr.wisc.edu/hib/>)
  - Office of the Provost for Faculty and Staff Affairs (<https://facstaff.provost.wisc.edu/>)
- Dean of Students Office (<https://doso.students.wisc.edu/>) (for all students to seek grievance assistance and support)
- Employee Assistance (<http://www.eao.wisc.edu/>) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (<https://employee disabilities.wisc.edu/>) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (<https://grad.wisc.edu/>) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (<https://compliance.wisc.edu/>) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office of Student Conduct and Community Standards (<https://conduct.students.wisc.edu/>) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (<http://www.ombuds.wisc.edu/>) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (<https://compliance.wisc.edu/titleix/>) (for concerns about discrimination)

### College of Agricultural and Life Sciences: Grievance Policy

In the College of Agricultural and Life Sciences (CALs), any student who feels unfairly treated by a member of the CALs faculty or staff has the right to complain about the treatment and to receive a prompt hearing. Some complaints may arise from misunderstandings or communication breakdowns and be easily resolved; others may require formal action. Complaints may concern any matter of perceived unfairness.

To ensure a prompt and fair hearing of any complaint, and to protect the rights of both the person complaining and the person at whom the complaint is directed, the following procedures are used in the College of Agricultural and Life Sciences. Any student, undergraduate or graduate, may use these procedures, except employees whose complaints are covered under other campus policies.

1. The student should first talk with the person at whom the complaint is directed. Most issues can be settled at this level. Others may be resolved by established departmental procedures.
2. If the student is unsatisfied, and the complaint involves any unit outside CALs, the student should seek the advice of the dean or director of that unit to determine how to proceed.
  - a. If the complaint involves an academic department in CALs the student should proceed in accordance with item 3 below.
  - b. If the grievance involves a unit in CALs that is not an academic department, the student should proceed in accordance with item 4 below.
3. The student should contact the department's grievance advisor within 120 calendar days of the alleged unfair treatment. The

departmental administrator can provide this person's name. The grievance advisor will attempt to resolve the problem informally within 10 working days of receiving the complaint, in discussions with the student and the person at whom the complaint is directed.

- a. If informal mediation fails, the student can submit the grievance in writing to the grievance advisor within 10 working days of the date the student is informed of the failure of the mediation attempt by the grievance advisor. The grievance advisor will provide a copy to the person at whom the grievance is directed.
- b. The grievance advisor will refer the complaint to a department committee that will obtain a written response from the person at whom the complaint is directed, providing a copy to the student. Either party may request a hearing before the committee. The grievance advisor will provide both parties a written decision within 20 working days from the date of receipt of the written complaint.
- c. If the grievance involves the department chairperson, the grievance advisor or a member of the grievance committee, these persons may not participate in the review.
- d. If not satisfied with departmental action, either party has 10 working days from the date of notification of the departmental committee action to file a written appeal to the CALs Equity and Diversity Committee. A subcommittee of this committee will make a preliminary judgement as to whether the case merits further investigation and review. If the subcommittee unanimously determines that the case does not merit further investigation and review, its decision is final. If one or more members of the subcommittee determine that the case does merit further investigation and review, the subcommittee will investigate and seek to resolve the dispute through mediation. If this mediation attempt fails, the subcommittee will bring the case to the full committee. The committee may seek additional information from the parties or hold a hearing. The committee will present a written recommendation to the dean who will provide a final decision within 20 working days of receipt of the committee recommendation.
4. If the alleged unfair treatment occurs in a CALs unit that is not an academic department, the student should, within 120 calendar days of the alleged incident, take his/her grievance directly to the Associate Dean of Academic Affairs. The dean will attempt to resolve the problem informally within 10 working days of receiving the complaint. If this mediation attempt does not succeed the student may file a written complaint with the dean who will refer it to the CALs Equity and Diversity Committee. The committee will seek a written response from the person at whom the complaint is directed, subsequently following other steps delineated in item 3d above.

### OTHER

Students in the Resource and Energy Demand Analysis program are not permitted to accept assistantships or seek double or dual degrees.

## PROFESSIONAL DEVELOPMENT

### GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School's professional development resources (<https://grad.wisc.edu/pd/>) to build skills, thrive academically, and launch your career.

## PROGRAM RESOURCES

REDA students receive personalized career advice to help them achieve their professional goals. This includes feedback on resumes and cover letters, panel presentations by REDA alumni, and opportunities to network with local and national professionals in the energy and natural resource fields. Employers recognize the high-quality training that our students receive and often directly recruit REDA students for their job openings.

### PEOPLE

**Faculty:** Professors Foltz (chair), Barham, Chavas, Coxhead, Deller, Gould, Mitchell, Phaneuf, Provencher, Rutherford, Stiegert; Associate Professors Alix-Garcia, Du, Grainger, Hueth, Schechter, Shi; Assistant Professors Conroy, Dower, Parker, Tjernström; Faculty Associate Dong

**Lecturers:** Beardmore, Glinsmann