

Natural Resource Economics, Ph.D.

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Degree Offered

- Doctor of Philosophy in Natural Resource Economics

Nature of the Program

The Ph.D. degree is the most advanced degree offered and prepares candidates for work at the highest level of the profession as a faculty member, staff in a research organization or governmental and non-governmental agencies, or as a consultant.

Admissions for 2025-2026

A regular graduate student is a degree-seeking student who meets all the criteria for regular admission to a program of their choice and be under no requirements to make up deficiencies.

For regular admission, a student must:

- Possess a baccalaureate degree from a college or university and have at least a grade point average of 2.75 on a 4.0 scale (or an average of 3.0 or higher for the last sixty credit hours).
- Provide three letters of reference from persons acquainted with the applicant's professional work, experience, or academic background.
- Submit a written statement of 500 words or more indicating the applicant's goals and objectives relative to receiving a graduate degree, and identify a potential faculty advisor.
- Have an adequate academic aptitude at the graduate level as measured by the Graduate Record Examination (GRE) or the New Medical College Admissions Test (New MCAT).

* International students must meet WVU's minimum score requirements for English language proficiency (<https://graduateadmissions.wvu.edu/how-to-apply/apply-for-2023-2024/international-graduate-applicant/>)

Major Code: 1733

Degree Requirements

| Code | Title | Hours |
|--|---|----------|
| Required Courses | | |
| ARE 621 | Quantitative Methods in Resource Economics | 3 |
| ECON 701 | Advanced Micro-Economic Theory 1 | 4 |
| ECON 711 | Advanced Micro-Economic Theory 2 | 4 |
| ECON 721 | Mathematical Economics | 3 |
| ECON 725 | Econometrics 1 | 3 |
| ARE 703 | Advanced Natural Resource Economic Theory | 3 |
| ARE 710 | Advanced Environmental Economics | 3 |
| ECON 726 | Econometrics 2 | 3 |
| ECON 727 | Econometrics 3 | 3 |
| or ARE 729 | Spatial Econometrics | |
| Required Field (select one of the following): | | 6 |
| Economic Development and Regional Economics | | |
| ARE 540 | Rural and Regional Development | |
| ARE 542 | International Agricultural Economic Development | |
| ECON 751 | International Trade | |
| ECON 754 | Comparative Economic Systems | |
| ECON 761 | Advanced Regional Economics | |
| ECON 762 | Advanced Urban Economics | |
| Spatial Economic Analysis | | |
| ARE 729 | Spatial Econometrics | |
| ECON 727 | Econometrics 3 | |

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| ECON 761 | Advanced Regional Economics | |
| RESM 575 | Spatial Analysis for Resource Management | |
| Macroeconomics | | |
| ECON 702 | Advanced Macro-Economic Theory 1 | |
| ECON 712 | Advanced Macro-Economic Theory 2 | |
| Seminar | | 1 |
| ARE 796 | Graduate Seminar | |
| Research | | 1 |
| ARE 797 | Research | |
| Teaching Practicum | | 1 |
| ARE 690 | Teaching Practicum | |
| Qualifying Exam | | |
| Mentored Research Paper | | |
| Dissertation Proposal Defense | | |
| Dissertation | | |
| Total Hours | | 38 |

Major Learning Outcomes

NATURAL RESOURCE ECONOMICS

Learning outcomes for this degree program are that each graduate:

- Demonstrate the capacity to produce economic research that can be accepted for publication in leading academic journals.
- Be proficient in oral and written communication.