M.S. and Ph. D. Programs
in Agricultural and Resource Economics

Department of Agricultural and Resource Economics
Faculty of Economics, Kasetsart University
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Master of Science Program

M.S. (Agricultural and Resource Economics)

Course Curriculum

Our program offers only Plan A2. A regular two-year program requires a minimum of 37 credits that comprises 25 credits of coursework and 12 credits of thesis. The required courses of 25 credits are: 2 credits of seminar, 17 credits of core courses, and 6 credits of electives. Students are required to select elective courses relevant for their research topics.

The maximum permissible period for the completion of a master’s degree does not exceed 5 academic years as deemed from the date of acceptance for study. **Be warned that you need to submit your official thesis proposal within the 4th semester. Otherwise, you will leave the program automatically.**

<table>
<thead>
<tr>
<th>Total requirement</th>
<th>37 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Required courses</td>
<td>25 credits</td>
</tr>
<tr>
<td>Seminar (1,1) - 01119597</td>
<td>2 credits</td>
</tr>
<tr>
<td>Core courses</td>
<td>17 credits</td>
</tr>
<tr>
<td>Electives</td>
<td>6 Credits</td>
</tr>
<tr>
<td>2. Thesis - 01119599</td>
<td>12 Credits</td>
</tr>
</tbody>
</table>

### Core courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01119511</td>
<td>Economic Theory for Agriculture and Resources</td>
<td>4</td>
</tr>
<tr>
<td>01119512</td>
<td>Applied Economics for Agriculture and Resources</td>
<td>4</td>
</tr>
<tr>
<td>01119561</td>
<td>Agriculture and Resource Policy</td>
<td>3</td>
</tr>
<tr>
<td>01119583</td>
<td>Econometrics in Agricultural and Resource Analysis</td>
<td>3</td>
</tr>
<tr>
<td>01119591</td>
<td>Advanced Research Methods in Agricultural and Resource Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01119513</td>
<td>Economics of International Comparative Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>01119514</td>
<td>Economics of International Business and Trade on Food and Agricultural Commodities</td>
<td>3</td>
</tr>
<tr>
<td>01119521</td>
<td>Advanced Farm Management</td>
<td>3</td>
</tr>
<tr>
<td>01119522</td>
<td>Analysis of Agricultural Production Economics I</td>
<td>3</td>
</tr>
<tr>
<td>01119523</td>
<td>Economics of Agricultural Innovation</td>
<td>3</td>
</tr>
<tr>
<td>01119531</td>
<td>Agricultural Market and Price Analysis</td>
<td>3</td>
</tr>
<tr>
<td>01119532</td>
<td>Economics of Futures Market in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>01119533</td>
<td>Economics of Food and Consumption</td>
<td>3</td>
</tr>
</tbody>
</table>

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1. The Master’s Degree structure is classified into 2 plans: Plan A - a research oriented program and Plan B - a course work oriented program. Plan A is characterized by two subcategories:
   - Plan A1 consists of a minimum of 37 credits for the thesis.
   - Plan A2 consists of a minimum of 12 credits for the thesis and a further minimum of 25 credits for course work.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01119534</td>
<td>Food and Agricultural Product Marketing and Price Strategy</td>
<td>3</td>
</tr>
<tr>
<td>01119535</td>
<td>Food and Agricultural Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>01119541</td>
<td>Advanced Agricultural Finance</td>
<td>3</td>
</tr>
<tr>
<td>01119551</td>
<td>Advanced Agricultural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>01119552</td>
<td>Advanced Land Economics</td>
<td>3</td>
</tr>
<tr>
<td>01119553</td>
<td>Advanced Economics of Aquaculture</td>
<td>3</td>
</tr>
<tr>
<td>01119554</td>
<td>Advanced Economics of Fishery Resources</td>
<td>3</td>
</tr>
<tr>
<td>01119555</td>
<td>Economic Valuation of Natural Resource and Environment in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>01119556</td>
<td>Application of Multi-Agent Systems Model in Agricultural Economics and Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>01119562</td>
<td>Advanced Agricultural Development Economics</td>
<td>3</td>
</tr>
<tr>
<td>01119563</td>
<td>International Agricultural Trade and Commercial Policy</td>
<td>3</td>
</tr>
<tr>
<td>01119564</td>
<td>Advanced Agricultural Policy Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>01119565</td>
<td>Agricultural Sector Strategic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>01119572</td>
<td>Advanced Agribusiness Management</td>
<td>3</td>
</tr>
<tr>
<td>01119574</td>
<td>Advanced Economics of Agro-industrial Organization</td>
<td>3</td>
</tr>
<tr>
<td>01119581</td>
<td>Mathematical Economics for Agriculture and Resources</td>
<td>3</td>
</tr>
<tr>
<td>01119582</td>
<td>Mathematical Economics Analysis for Agriculture and Resources</td>
<td>3</td>
</tr>
<tr>
<td>01119584</td>
<td>Advanced Time Series Analysis for Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>01119592</td>
<td>Research Management and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>01119596</td>
<td>Selected Topics in Agricultural and Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>01119598</td>
<td>Special Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Study Plan**

### Study Plan

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
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<tbody>
<tr>
<td>01119551</td>
<td>Econ Theory for Agr &amp; Res</td>
<td>4</td>
</tr>
<tr>
<td>01119581</td>
<td>Math Econ for Agr &amp; Res (elective)</td>
<td>3</td>
</tr>
<tr>
<td>01119583</td>
<td>Econometrics in Agr &amp; Res Analysis</td>
<td>3</td>
</tr>
<tr>
<td>01119597</td>
<td>Seminar (1)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>11</strong></td>
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**First semester (Aug – Dec)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01119512</td>
<td>Applied Economics for Agr &amp; Res</td>
<td>4</td>
</tr>
<tr>
<td>01119591</td>
<td>Advanced Research Methods in Agr &amp; Res Econ</td>
<td>3</td>
</tr>
<tr>
<td>01119561</td>
<td>Agr &amp; Res Policy</td>
<td>3</td>
</tr>
<tr>
<td>011195xx</td>
<td>Elective course</td>
<td>3</td>
</tr>
<tr>
<td>01119597</td>
<td>Seminar (2)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Second semester (Jan – May)**

**June – July (semester break)**

Data collection

**Third semester (Aug – Dec)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
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</thead>
<tbody>
<tr>
<td>01119599</td>
<td>Thesis</td>
<td>6-12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Fourth semester (Jan – May)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01119599</td>
<td>Thesis</td>
<td>0-6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

- Development of research concept
- Survey of potential committee
- Study plan submission
- Committee appointment
- Thesis proposal defense - before enrolment of 3rd semester
- Data analysis
- Thesis writing
- Paper submission for publication
- Thesis defense
Some Important Regulations from the Graduate School

It is the student’s responsibility to know the calendar, regulations, and pertinent procedures of the Graduate School and to meet its standards and requirements.

1. Year of study. The maximum permissible period for the degree completion is 5 academic years. If students fail to comply with this permissible period, their status is terminated.

2. Thesis proposal. Students are required to submit their thesis proposal to the Graduate School before the end of the 4th regular semester since commencement of studies.

3. Final oral examination of thesis. Students have to submit the thesis to the final examination committee at least 7 days prior to the examination.

4. Submission of complete thesis. Students who cannot submit their complete thesis within 120 days from the final examination date, the pertinent final oral examination results are to be rendered void.

5. Graduation. For students to graduate:
   a. A minimum grade point average (GPA) of 3.00 out of 4.00 is to be attained.
   b. The complete thesis to be submitted to the Graduate School.
   c. Students are to successfully meet the criteria of the English proficiency required by the Graduate School. See details below
   d. An achievement of either publication or at least approval for publication of thesis or parts of thesis in journals or academic publications, or alternatively, presentation of thesis in an academic conference which issues proceedings of the conference.

English Proficiency Requirement

To fulfill the graduate school requirements, M.S. students must satisfy one of these conditions of English proficiency:

1. Students must pass an English proficiency examination held by Department of Foreign Languages, Faculty of Humanities. For more information, students can visit http://www.ku-ept.human.ku.ac.th.

2. Students who fail the English proficiency examination may either choose to apply for the “English Required by Graduate School” (01355501) course (register as GA type) and pass it, or re-apply for the examination specified in point no. 1.

3. Alternatively, students can submit their TOEFL, IELTS, CU-TEP, KU-EPT or KU-TOEFL-ITP scores. If any such examinations were taken before enrollment at Kasetsart University, the date of the result is not to be in excess of one (1) year prior to the submittal date of the transfer. If any such examination was taken as an enrolled student at Kasetsart University, these examination results are valid if achieved no more than two (2) years prior to the submittal date of transfer. The criteria of those examination results are as follows.
Exam type | The criterion for passing examination
--- | ---
TOEFL | • Paper-based test: the attained score in sections 2 and 3 is to be not less than 45 points; or alternatively the total attained score is to be not less than 450.
  • Computer-based test: the attained scores in sections 2 and 3 are to be not less than 14 and 13 points respectively; or alternatively the total attained score is to be not less than 133.
  • Internet-based test: the total attained score is to be not less than 45.
IELTS | the attained score is to be not less than 5.0.
CU-TEP | the attained score is to be not less than 45.
KU-EPT | the attained score is to be not less than 50%.
TOEFL-ITP | the attained score is to be not less than 450.

4. Exemption: The Graduate School provides an exemption from English studies which are required by the Graduate School for graduate students who graduated from institutes/universities in countries where the official language is English and which are approved by the Office of the Civil Service Commission (OCSC), or who graduated from international/English programs at institutes/universities which are approved by the OCSC. Graduation from English speaking countries or international/English programs must not have taken place longer ago than 5 years, counted from the date of graduation.

Doctor of Philosophy Program

Ph. D. (Agricultural and Resource Economics)

Course Curriculum

Our Ph.D. program is classified into 2 plans, plan 1.1 and plan 2.1, with the minimum 49 credits for a regular three years of study.

Plan 1.1 (research oriented plan) is particularly for outstanding master degree students with the GPA of at least 3.85 out of 4 in the M.S. degree level. The final decision shall be made by the Ph.D. committee.

Plan 2.1 (coursework oriented plan) is a regular plan taken by most of students. Of the total 49 credits, students are required to take 13 credits of coursework and 36 credits of thesis.

The maximum permissible period for the degree completion does not exceed 6 academic years for candidates with a master’s degree. Be warned that you need to submit your official thesis proposal within the 6th semester. Otherwise, you will leave the program automatically.

<table>
<thead>
<tr>
<th>Course</th>
<th>Plan 1.1</th>
<th>Plan 2.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total credits</td>
<td>Minimum 49 credits</td>
<td>Minimum 49 credits</td>
</tr>
<tr>
<td>1. Required courses</td>
<td>-</td>
<td>13 credits</td>
</tr>
<tr>
<td>Seminar</td>
<td>(non-credit)</td>
<td>4 credits</td>
</tr>
<tr>
<td>01119697 Seminar (I), (II), (III), (IV)</td>
<td>(non-credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Core Courses</td>
<td>(non-credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>01119681 Advanced Quantitative Analysis in Agricultural and Resource Economics</td>
<td>(non-credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>01119691 Advanced Research Methodologies in Agricultural and Resource Economics</td>
<td>(non-credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Electives</td>
<td>(non-credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>2. Dissertation</td>
<td>49 credits</td>
<td>36 credits</td>
</tr>
<tr>
<td>01119699 Thesis</td>
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</tr>
</tbody>
</table>

During the first year in the program, students normally take courses in macro and microeconomic theory, as well as courses in econometrics to prepare for the comprehensive examinations taken at the end of the first year.
### Study Plan

<table>
<thead>
<tr>
<th>Year One</th>
<th>Suggestion</th>
</tr>
</thead>
</table>
| **First semester**  
(Aug-Dec)  
Courses: 6-10 credits  
- 01119697-I (seminar - 1 cr.) literature reviewed on research issue.  
- Other courses required by committee (3-6 cr.) min. requirement for B+  
*Progress form submitted at the end of semester*  
| ☐ 1. progress form submission for each semester  
☐ 2. study plan submission  
☐ 3. committee appointment  
☐ 4. comprehensive examination (before enrolment of 2nd year)  |
| **Second semester**  
(Jan-May)  
Courses: 3-9 credits  
- 01119697-II (seminar - 1 cr.) conceptual framework and method  
- 01119691 (research method – 3 cr.)  
- Other courses required by committee (3-6 cr.) min. requirement for B+  
Thesis: 0-3 credits (at least 80% proposal done)  
*Progress form submitted at the end of semester*  
|  |

<table>
<thead>
<tr>
<th>Year Two</th>
<th></th>
</tr>
</thead>
</table>
| **First semester**  
(Aug-Dec)  
Courses: 1-4 credits  
- 01119697-III (seminar - 1 cr.) drafting papers for publication  
- 01119681 (quantitative course – 3 cr.)  
- Other courses required by committee (if any) min. requirement for B+  
Thesis: 0-6 credits (if enrolled, working with advisor at least 6 hours/week on research paper)  
*Progress form submitted at the end of semester*  
| ☐ 1. progress form submission for each semester  
☐ 2. proposal defense  
☐ 3. data collection (field work if needed)  
☐ 4. submission of 1st paper  |
| **Second semester**  
(Jan-May)  
Courses: 1 credit  
- 01119697-IV (seminar - 1 cr.) analysis, paper for publication  
Thesis: 6-12 credits (working with advisor at least 6 hours/week on paper and dissertation)  
*Progress form submitted at the end of semester*  
|  |

<table>
<thead>
<tr>
<th>Year Three</th>
<th></th>
</tr>
</thead>
</table>
| **First semester**  
(Aug-Dec)  
Thesis: 12 credits (working with advisor at least 6 hours/week on paper and dissertation)  
*Progress form submitted at the end of semester*  
| ☐ 1. progress form submission (if dissertation not defensed)  
☐ 2. submission of 2nd paper  
☐ 3. dissertation defense  |
| **Second semester**  
(Jan-May)  
Thesis: 12-18 credits  
*Progress form submitted at the end of semester*  
|  |

Note: one credit equals one weekly hour of lecture or discussion
Some Important Regulations from the Graduate School

It is the student’s responsibility to know the calendar, regulations, and pertinent procedures of the Graduate School and to meet its standards and requirements.

1. Year of study. Students who can’t complete the degree in three years must clarify their progress, with approval of advisors, to the Ph.D. committee before enrollment for the next year. Maximum extension can go for three more years. Students who can’t finish with the total six years, need readmission. To apply for readmission, the following requirements are needed for the Ph.D. committee and the Graduate School.
   - Application form
   - Status clarification with approval from advisor
   - The final decision shall be made by the Graduate School for their eligibility to return and pursue the degree.
2. Comprehensive examination. Students shall take comprehensive examination after taking courses with 2/3 of the total credits (credits for dissertation excluded). It is suggested to take exam after the second semester. Those who fail the examination may attempt it once more within 90 days. The examination dates are determined by the examination board appointed by the Dean of the Graduate School.
3. Students should pass the comprehensive examination before taking oral examination of dissertation proposal.
4. Dissertation proposal. Students must take oral examination of their dissertation proposals no later than the 6th semester. Otherwise, they will leave the program.
5. Final oral examination. Thesis proposal must be approved prior to final oral examination at least 270 days.
6. Graduation. For students to graduate:
   a. A minimum grade point average (GPA) of 3.00 out of 4.00 is to be attained.
   b. The complete thesis is to be submitted to the Graduate School
   c. Students are to successfully meet the criteria of the English proficiency required by the Graduate School. See details below
   d. An achievement of either 2 publications or at least approval for publication of thesis or parts of thesis in journals or academic publications.


RECOMMENDATIONS

- When credits for dissertation taken, students shall work with their Advisory Committee at least equivalent to 3 hours/week for each credit taken.
- Students should meet with the members of their Advisory Committee at least one week before the due date to discuss the content of the report. You must also obtain the signatures of all members of your Advisory Committee on both your Program of Studies form and your Student Progress Report.
English Proficiency Requirement

To fulfill the graduate school requirements, Ph.D. students must satisfy these conditions of English proficiency:

Written Examination: Written examinations are held as a group examination by the Department of Foreign Languages, Faculty of Humanities. For more information, students can visit [http://www.ku-ept.human.ku.ac.th/](http://www.ku-ept.human.ku.ac.th/).

Oral Examination: The oral examination is held as an individual assessment. Students are required to pass the written examination prior to being eligible for the oral examination. The oral examination committee consists of 2 lecturers from the Department of Foreign Language and 1 representative of The Graduate School, appointed from among lecturers in a major field of study which the candidate is pursuing. Students applying for the oral examination are required to submit a General Request Form (GS 01) to the Dean of The Graduate School, together with a thesis advisor’s consent, as well as the consent of the head of department, or the graduate program committee chairperson.

Alternatively, students can submit their TOEFL, IELTS, CU-TEP, KU-EPT or KU-TOEFL-ITP scores. If any such examination was taken before enrollment at Kasetsart University, the date of the result is not to be in excess of 1 year prior to the submittal date of transfer. If any such examination was taken as an enrolled student at Kasetsart University, those examination results are valid if achieved no more than 2 years prior to the submittal date of transfer. The criteria of TOEFL, IELTS, and CU-TEP examination results are as follows:

<table>
<thead>
<tr>
<th>Exam type</th>
<th>The criterion for passing examination</th>
</tr>
</thead>
</table>
| TOEFL      | • Paper-based test: the attained score is to be not less than 500 points.  
             | • Computer-based test: the attained score is to be not less than 173 points.  
             | • Internet-based test: the attained score is to be not less than 61 points.  |
| IELTS      | the attained score is to be not less than 5.5. |
| CU-TEP     | the attained score is to be not less than 67. |
| KU-EPT     | if the attained score is higher than or equal to 60%, students will pass both the written and oral examination.  
             | if the attained score is 55% - 59%, students will pass only the written examination. |
| TOEFL-ITP  | the attained score is to be not less than 500. |
Course Description

01119511  Economic Theory for Agriculture and Resources  4(4-0-8)
Theory of microeconomics of demand, utility, consumer behavior, price changes, producer
theory, production, cost, and profit, partial equilibrium, general equilibrium and welfare related
to agriculture and resources. Theory of macroeconomics of aggregate demand, goods market
and financial market, aggregate supply and labor market, equilibrium under policy changes,
open economy, and growth model in long run.

01119512  Applied Economics for Agriculture and Resources
Applications of production function, cost function, and profit function in decision making of
agricultural production in the short and long runs. Analyses of agricultural market structure,
market integration and marketing margins of agricultural commodities. Dynamic analyses in
allocation of renewable and non-renewable agricultural resources and environment. Agricultural
resource and environmental valuations.

01119514  Economics of International Business and Trade on Food and Agricultural
Commodities
International trade theory, related institutions, commitment and policy options for food and
agricultural commodities. Global business and market opportunities. International transportation
alternatives. Monetary market and exchange rate. Effects from direct foreign investment.

01119515  Applications of Game Theory in Agricultural Economics
Principles of game theory, components and forms of game in various situations. Mathemtic
forms and applications of game theory in issues of agricultural economics. Agrocultural
producers' decision-marking. Financila and investment decisions. Farmers' willingness to
accept the compensation. Consumer behavior on agricultural product. Decision on policy
formulation, international trade negotiation. Applications of game theory in international trade
and auctions in agricultural product. Case study.

01119521  Advanced Farm Management  3(3-0-6)
Analysis of farming practices through case study method. Farm planning and budgeting under
changing economic, social and technological conditions using linear programming, game theory
and simulation methods. Field trips are included.

01119522  Analysis of Agricultural Production Economics  3(2-3-5)
Analysis and properties assessment of production function, cost function, profit function.
Single-output and multi-output production. Optimization of production decisions under cost
Technological change. Applications of production theories for empirical analysis in agricultural
research.

01119523  Economics of Agricultural Innovation  3(3-0-6)
Roles of agricultural innovation in economic growth and development. Research and
development in agriculture and new growth theory. Agricultural technology adoption and
diffusion of innovations. Technology transfer and knowledge spillover of agricultural
technology. Theory of induced innovation and theory of directed technical change in agriculture.
Economic modeling of agricultural production with technological change. Economic welfare
analysis of technological change in agriculture. Discussion in economic issues of farm
mechanization development, green revolution, agricultural biotechnology and other emerging
agricultural technologies.

01119531  Agricultural Market and Price Analysis  3(3-0-6)
Construction of market models for analysis of various marketing conditions. Analysis of
changes in marketing institutions resulting from problems and different production policies,
prices and agricultural marketing. Field trips are included.

01119532  Economics of Futures Market in Agriculture  3(3-0-6)
Future trading prediction. Field trips are included.

01119533  Economics of Food and Consumption  3(3-0-6)
Application of micro and welfare economics theory to analyze food and consumption related to
pricing and distribution, product quality and consumer decision, as well as product safety.

01119534  Food and Agricultural Product Marketing and Price Strategy  3(3-0-6)
Linkage among food and agricultural systems. In the economy in terms of production processing, marketing, consumer behaviors, and government policies. The marketing and price strategy of food and agricultural products for domestic and export markets.

01119535 Food and Agricultural Supply Chain Management 3(3-0-6)
Strategic framework in food supply chain analysis, planning demand and supply in food supply chain, planning and managing inventories, transportation, network design and information technology in food supply chain. Role of e-business and financial factors influencing food supply chain decisions.

01119541 Advanced Agricultural Finance 3(3-0-6)

01119551 Advanced Agricultural Resource Economics 3(3-0-6)

01119552 Advanced Land Economics 3(3-0-6)

01119553 Advanced Economics of Aquaculture

01119554 Advanced Economics of Fishery Resources 3(3-0-6)
The concept of common property for fishery resources. Bio-economic model of fishery resources. Economic theory as applied to the economic aspects of fishery resources management. Supply and demand for fishery resources. Advanced dynamic analysis in maximizing social welfare from fishery exploitation. Field trips are included.

01119555 Economic Valuation of Natural Resource and Environment in Agriculture
The content of Economic Valuation of natural Resource and Environment begin with characteristics, functions, and services of natural resources and environment. It follows by the classification of economic values based on functions and services to the society. The subject also focuses on economic concepts and valuation techniques. The content also includes the use of economic value for policy application in relation with agriculture.

01119556 Application of Multi-Agent Systems Model in Agricultural Economics and Resource Management
Definition and characteristics of model and simulation, integrated model in agricultural economics and resource management. Modelling for simulation, multi-agent systems model, unified modeling language for conceptual model communication, using common-pool resources and multi-agent systems program, principle of multi-agent systems model development to apply for studying and analyzing agricultural economics and resource management problem.

01119557 Energy Economics for Agricultural Development
Introductory concepts of energy supply, energy demand, and energy prices. The Economics of energy security, energy efficiency, and climate change. Fundamental concepts of renewable alternative and bio energy production. Food and fuel dilemma. The economic implications of expanded production of energy crops to agriculture sector: land use, labor, competitive crops, livestock sector, prices, and consumer. Economic and Environmental effects of Bio energy policies.

01119561 Advanced Agriculture and Resource Policy 3(3-0-6)
Policy and planning formulation with emphasis on agricultural, natural resource use and related-environmental issues. Analysis and discourse of the policies as well as the correlation and impacts of the regional and global policies on Thai agriculture.

01119562 Advanced Agricultural Development Economics 3(3-0-6)
Role of agriculture in economic development. Agricultural economic problems in developing countries. Theories of economic and social growth. Economic growth models. Development
models of agricultural sector. Relationship between consumption and agricultural production and agricultural development. Planning and agricultural development policies.

01119563  International Agricultural Trade and Commercial Policy

01119564  Advanced Agricultural Policy Evaluation

01119565  Agricultural Sector Strategic Analysis
Principle of quantitative and qualitative analysis for formulating strategy analysis in agricultural sectors. The analysis of strength, weakness, and opportunity in agricultural sectors.

01119572  Advanced Agribusiness Management

01119574  Advanced Economics of Agro-industrial Organization

01119581  Mathematical Economics for Agriculture and Resource
Construction of mathematical economic models applied to theories and problems of agricultural and resource economics. Economic models concerning economic growth under certainty and uncertainty of agricultural sector.

01119582  Mathematical Models for Agriculture and Resources

01119583  Econometrics in Agricultural and Resource Analysis

01119584  Advanced Time Series Analysis for Agricultural Economics
Application of econometric time series model. Hypothesis testing and statistical estimation and forecasting. Analyzing problems in agricultural economics.

01119591  Advanced Research Methods in Agricultural and Resource Economics
Analysis of research methodology. Formulation of research framework. Formulation of problems. Formulation and testing of hypothesis. Forms of research proposal. Statistical techniques used in research. Research problems and guides in agricultural and resource economics. Some examples of analytical techniques.

01119592  Research Management and Evaluation
Importance of research in agricultural development. Research management. Prioritization of research. Evaluation of researches in agriculture and agro-industry.

01119595  Independent Study
Independent study on interesting topic at the master’s degree level and compile into a report.

01119596  Selected Topics in Agricultural and Resource Economics
Selected topics in agricultural and resource economics at the master’s degree level. Topics are subject to change each semester.

01119597  Seminar
Presentation and discussion on current interesting topics in agricultural and resource economics at the master’s degree level.

01119599  Thesis
Research at the master’s degree level and compile into a thesis.

Teaching Staff

Department of Agricultural and Resource Economics

http://www.agri.eco.ku.ac.th/index.php

Tuition and Fees

M. S. Program

Estimated tuition fee for 2-year program: USD 7,000 - 12,000 excluding textbooks and research cost.

Ph. D. Program

Approximate tuition and fees are USD 20,000 – 22,000 for the regular three-year program. These include: textbooks, tuition fees, foreign student fees, research fees, and dissertation fee.

Students need to pay for student visa which costs approximately USD 65 (or THB 2,000) annually. All students are required to have health insurance which should be prepared from their home countries. International Studies Center (ISC) of Kasetsart University (http://www.interprogram.ku.ac.th/newsite/) can also arrange the health insurance with about USD 285 (or THB 8,500) annually.

Contact Information

| ARE international graduate student committee: |
| Address: Department of Agricultural and Resource Economics, Faculty of Economics, Kasetsart University 50 Ngam Wong Wan Rd, Chatuchak Bangkok 10900 Thailand. |
| Phone | +662 942 8649-51 |
| Fax | +662 942 8047 |
| e-mail | phdinare@gmail.com; penporn.j@ku.ac.th; fecoiyb.ku.ac.th |
Important Links

1. Kasetsart University  
2. International Affairs Division, Kasetsart University  
   http://iad.intaff.ku.ac.th/wordpress/
3. International Studies Center (ISC)  
   http://www.interprogram.ku.ac.th/newsite/
4. Kasetsart University Library/Learning Center (KULC)  
   http://www.lib.ku.ac.th/web/index.php/th
5. The Graduate School, Kasetsart University  
   http://www.grad.ku.ac.th/en/
6. Faculty of Economics, Kasetsart University  
   http://eco.ku.ac.th/new58/
7. Bidyalankarana Library, Faculty of Economics, Kasetsart University  
   http://bidyalib.eco.ku.ac.th/
8. Department of Agricultural and Resource Economics  
   http://agri.eco.ku.ac.th/eng.php
9. M.S. Program in Agricultural and Resource Economics (English Program)  
   http://agri.eco.ku.ac.th/inter/www/ms_agreco.html

Helpful Links and Forms

The Graduate School of Kasetsart University:  
http://www.grad.ku.ac.th/en/
Academic calendar: http://www.grad.ku.ac.th/en/academic-calendars/
Scholarships:  
http://www.grad.ku.ac.th/en/scholarships/  
The Graduate School’s student services: http://www.grad.ku.ac.th/en/service/

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<td>GS. 02-1</td>
<td>Appointment/Change of Student's Advisory Committee Request Form (for independent study program)</td>
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<td>Thesis Proposal Review Form</td>
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Exploring Thailand

Bangkok events calendar 2016: [http://www.bangkok.com/events-calendar.htm](http://www.bangkok.com/events-calendar.htm)
