



DOCTOR OF PHILOSOPHY PROGRAM IN EDUCATIONAL RESEARCH AND EVALUATION

■ FACULTY OF EDUCATION

DOCTOR OF PHILOSOPHY PROGRAM IN EDUCATIONAL RESEARCH AND EVALUATION

The program aspires to prepare top scholars in Educational Research and Evaluation to serve as professionals in universities, research agencies, policy agencies, and schools. Doctoral students are essential partners in developing new knowledge and in preparing the next generation of educators, researchers, and evaluators.



Objectives

The program is intended to turn out graduates with the following qualifications:

- Well-rounded and ethical in using the expertise in educational research and evaluation for social and national development
- Committed to the profession and dedicated to research and evaluation for the benefits of education and careers
- Skillful in the management of educational research and development
- Capable of creating new knowledge in the discipline
- Striving to build networks in Educational Research and Evaluation

Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.

Medium of Instruction

Thai and English

Research Focus

- Educational Research
- Educational Assessment and Evaluation
- Educational Research and Evaluation for National Development

Requirement for Graduation

In accordance with the Graduate School Rules and Regulations.



Doctor of Philosophy Program in Educational Research and Evaluation

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Structure of the Program

1. Credit Requirements. *

Requirements	Option 1.1	Option 2.1	Option 2.2
Coursework	-	12	24
Core Courses	-	9	18
Electives	-	3	6
Required Non-credit Courses	6	6	9
Dissertation	48	36	48
Total	48	48	72

* Minimum credits required.

2. Core Courses

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Evaluation Theory and Application	-	-	390612	3	-	-
Advanced Statistics for Research and Evaluation	-	-	390613	3	-	-
Selection Topic in Research and Evaluation	-	-	390614	3	-	-
Educational Research and Development	-	-	-	-	390511	3
Applied Statistics for Research and Evaluation	-	-	-	-	390521	3
Educational Evaluation	-	-	-	-	390531	3

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Evaluation Theory and Application	-	-	-	-	390612	3
Advanced Statistics for Research and Evaluation	-	-	-	-	390613	3
Selection Topic in Research and Evaluation	-	-	-	-	390614	3
Total	-	-	3	9	6	18

3. Electives

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Advanced Qualitative Research	-	-	390615	3	390615	3
Advanced Testing and Measurement Theory	-	-	390616	3	390616	3
Evaluation Research	-	-	390617	3	390617	3
Psychological Testing	-	-	390618	3	390618	3
Advanced Experimental Design	-	-	390619	3	390619	3
Administration of Research and Evaluation	-	-	390620	3	390620	3
Meta Evaluation	-	-	390621	3	390621	3
Responsive and Constructive Evaluation	-	-	390622	3	390622	3
Empowerment and Participatory Evaluation	-	-	390623	3	390623	3
Synthesis of Research and Evaluation	-	-	390624	3	390624	3
Advanced Statistics for Research and Evaluation II	-	-	390625	3	390625	3
Mixed Methodology in Research and Evaluation	-	-	390626	3	390626	3
Alternative Evaluation	-	-	390627	3	390627	3

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Philosophy of Research	-	-	390628	3	390628	3
Meta-Ethnography	-	-	390629	3	390629	3
Mixed Method Synthesis of Research	-	-	390630	3	390630	3
Total	-	-	16	≥3	16	≥6

4. Required Non-credit Courses.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Research Methodology in Social Sciences	-	-	-	-	366513	3
Advanced Research Methodology	390611	3	390611	3	390611	3
Seminar in Contextual of Education	390681	1	390681	1	390681	1
Seminar in Research and Evaluation I	390682	1	390682	1	390682	1
Seminar in Research and Evaluation II	390683	1	390683	1	390683	1
Total	4	6	4	6	5	9

5. Dissertation Credit Requirements.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Dissertation I, Type 1.1	390691	3	-	-	-	-
Dissertation II, Type 1.1	390692	5	-	-	-	-
Dissertation III, Type 1.1	390693	10	-	-	-	-
Dissertation IV, Type 1.1	390694	10	-	-	-	-
Dissertation V, Type 1.1	390695	10	-	-	-	-
Dissertation VI, Type 1.1	390696	10	-	-	-	-
Dissertation I, Type 2.1	-	-	390791	4	-	-
Dissertation II, Type 2.1	-	-	390792	6	-	-
Dissertation III, Type 2.1	-	-	390793	8	-	-
Dissertation IV, Type 2.1	-	-	390794	8	-	-
Dissertation V, Type 2.1	-	-	390795	10	-	-
Dissertation I, Type 2.2	-	-	-	-	390891	3
Dissertation II, Type 2.2	-	-	-	-	390892	5
Dissertation III, Type 2.2	-	-	-	-	390893	10
Dissertation IV, Type 2.2	-	-	-	-	390894	10
Dissertation V, Type 2.2	-	-	-	-	390895	10
Dissertation VI, Type 2.2	-	-	-	-	390896	10
Total	6	48	5	36	6	48

Course Descriptions

366513 Research Methodology in Social Sciences

3(3-0-6)

Research definitions, characteristics, and goals; types and research processes; research problem determination; variables and hypothesis; research design; data collection; data analysis; proposal and research report writing; research evaluation; research application; ethics of researchers; and research techniques in social sciences.

390611 Advanced Research Methodology

3(3-0-6)

Philosophical foundations, epistemology and logical principles in research inquiry and in drawing conclusions from research results, research designs, advanced data analysis techniques, weaknesses and strengths in different types of research, and multidisciplinary research.

390511 Educational Research and Development

3(3-0-6)

Concepts and principles in research and development; differences between research and development; different types of research and development; educational development, such as educational innovation, research and development in classroom and school levels; and applications of educational research and development including analysis of educational research and development reports.

390521 Applied Statistics for Research and Evaluation

3(3-0-6)

Fundamental statistics, such as probability sampling techniques, random variable distribution of statistics, estimation, hypothesis testing, regression analysis, analysis of variance, and covariance; and application of statistical software program packages to data analysis.

390531 Educational Evaluation**3(3-0-6)**

Principles of educational evaluation, evaluation models and approaches; design and planning evaluation; definitions of object evaluation and indicators; criteria used in evaluation; and analysis of evaluation data with emphasis on application of educational evaluation, such as institute, project, and curriculum evaluation.

390612 Evaluation Theory and Application**3(2-2-5)**

Development of evaluation methodologies, science of investigation, goals of evaluation, models and paradigms of different evaluation approaches, development of evaluation models, and application of evaluation to job performance and practicum.

390613 Advanced Statistics for Research and Evaluation**3(2-2-5)**

Multiple distribution theory, matrices, multiple analysis techniques, partial analysis of variance, hotelling T-square, multiple regression analysis, path analysis, factor analysis, canonical correlation, discriminant function analysis, cluster analysis, multi-level analysis, linear structural equation model analysis, and application of computer packages for data analysis.

390614 Selected Topics in Research and Evaluation**3(3-0-6)**

Extensive study of topics indicative of recent developments in research and evaluation published in journals of specific academic fields and discussed in annual conferences organized by research and evaluation professional organizations.

390615 Advanced Qualitative Research**3(2-2-5)**

Practicum in qualitative research to develop or find solutions to educational and social problems using selected qualitative research methods, such as participatory workshops, focus group method, and community/organization history study.

390616 Advanced Testing and Measurement Theory**3(3-0-6)**

Classical measurement theory, item-response theory, and other theories related to educational measurement; validity, reliability, and measurement errors; interpretation of test scores; and application of theory to educational measurement.

390617 Evaluation Research**3(3-0-6)**

Concepts and principles of evaluation research in social science and education, relationship between general research and evaluation research, role and importance of evaluation research, techniques for conducting each type of evaluation research, models of evaluation research, collection and analysis of data; and evaluation of research report writing.

390618 Psychological Testing**3(3-0-6)**

Psychological testing theories; personality measurement; measurement of intelligence, creativity, aggressiveness, career interests and attitude; measurements to differentiate gifted and talented children; and application of psychological testing theories to educational research and evaluation.

390619 Advanced Experimental Design**3(3-0-6)**

Experimental designs and statistical analysis for various designs, such as randomized design, split plot design, Latin square design, nested Latin square design, partial factorial design, non-proportional sample factorial design, models and score transformation, planned and unplanned multiple comparison, and trend testing.

390620 Administration of Research and Evaluation 3(2-2-5)

Establishing the themes of research and evaluation, finding a team for research and evaluation, submitting a proposal for funding, signing a contract for a research project, performing the terms of a contract, conducting a meeting to delegate responsibilities for a research project, and monitoring and providing feedback on self and team evaluation reports.

390621 Meta-evaluation 3(2-2-5)

Concepts of different types of meta-evaluation, procedures and methods of meta-evaluation, and meta-evaluation practices in an evaluation project.

390622 Responsive and Constructive Evaluation 3(2-2-5)

Basic concepts and development of responsive and constructive evaluation, methods and procedure in project evaluation using responsive and constructive evaluation, and practices in evaluation using responsive and constructive evaluation approaches.

390623 Empowerment and Participatory Evaluation 3(2-2-5)

Basic concepts and development of empowerment and participatory evaluation, methods and procedures in project evaluation using empowerment and participatory evaluation, and practices in evaluation using empowerment and participatory evaluation.

390624 Synthesis of Research and Evaluation 3(2-2-5)

Concepts and methods of synthesizing different types of qualitative and quantitative research and evaluation, synthesis report writing, and practices in synthesis of research and evaluation.

390625 Advanced Statistics for Research and Evaluation II 3(2-2-5)

Multi-level analysis, linear structural equation model analysis, and application of computer packages for data analysis.

390626 Mixed Methodology in Research and Evaluation 3(2-2-5)

Fundamental principles of research and evaluation, quantitative methodology, qualitative methodology, mixed methodology, research designs, meta-analysis, mixed methodology in meta-analysis, and application of mixed methodology and mixed meta-analysis methodology in research and evaluation.

390627 Alternative Evaluation 3(2-2-5)

Definitions, purposes, characteristics, and needs of basic assumptions of alternative assessment; teaching goals inventory; planning and implementing assessment projects; classroom assessment techniques; and practices in assessment techniques.

390628 Philosophy of Research 3(3-0-6)

Concepts and characteristics of philosophy, metaphysics, epistemology, theories of knowledge, causality, reality, fact, truth, theory, hypothesis, and law; the relation between philosophy and research; and science, the aims of science, and scientific processes.

390629 Meta-Ethnography 3(3-0-6)

Concepts, characteristics, origin, and steps of meta-ethnography; and report writing.

390630 Mixed Method Synthesis of Research 3(3-0-6)

Fundamental background, meaning, characteristics, designs, and steps of Mixed Method Synthesis of Research (MMSR); and report writing.

390681 Seminar in Contextual Educatio**1(0-3-1)**

Analysis of and present issues in Thai education from the past, present, and to the future; discussion of educational issues related to the economy, society, culture, government and politics, and science and technology; and the casual relationships and interface between education and its respective contexts.

390682 Seminar in Research and Evaluation I**1(0-3-1)**

Examination of research and evaluation studies and present research issues for discussion and critique, and development of student personality both as presenter and as participants of a seminar.

390683 Seminar in Research and Evaluation II**1(0-3-1)**

Planning for research and evaluation seminars on specific topics; organizing a seminar and discharging duties as a panelist, moderator, or participants; and discussing and providing feedback from a video.

393691 Dissertation I, Option 1.1**3 credits**

Preliminary study and reading, intensive reading in advanced educational research and evaluation trends, a study of advanced research related to research and evaluation with emphasis on the major, research title based on creativity, body of knowledge, construction of research and development innovation which can be used for the country's educational development, and presentation of the conceptual framework.

393692 Dissertation II, Option 1.1**5 credits**

Writing a research proposal, completing the first draft of the proposal, submitting it to the chair of the supervisory committee, rewriting the research proposal, and resubmitting it to the committee chair.

393693 Dissertation III, Option 1.1**10 credits**

Submitting the draft of the research proposal for committee appointment, presenting the proposal to the examination committee, and revising the proposal as required.

393694 Dissertation IV, Option 1.1**10 credits**

Submitting the examined research proposal, announcement of committee members, and development and design of research innovation and instruments.

393695 Dissertation V, Option 1.1**10 credits**

Collecting research data; analyzing data; and writing research results, summary, discussion, and recommendation.

393696 Dissertation VI, Option 1.1**10 credits**

Submitting the completed draft of the dissertation to the committee chair, rewriting the draft of the dissertation previously submitted, submitting the corrected and revised dissertation to the Graduate School for oral examination, revising the dissertation, and submitting the completed dissertation to the Graduate School.

393791 Dissertation I, Option 2.1**4 credits**

Preliminary study and reading. intensive reading in advanced educational research and evaluation trends; study of advanced research related to research and evaluation with emphasis on the major, research title based on creativity, body of knowledge, construction of research and development innovation which can be used for the country's educational development, and presentation of the conceptual framework.

393792 Dissertation II, Option 2.1**6 credits**

Writing a research proposal, completing the first draft of the proposal, submitting it to the chair of the supervisory committee, rewriting the research proposal, and resubmitting it to the committee chair.

393793 Dissertation III, Option 2.1**8 credits**

Submitting the draft of the research proposal for the appointment of a committee, presenting the research proposal to the examination committee, revising the research proposal, submitting the examined research proposal for approval and announcement, and developing research innovation and instruments.

393794 Dissertation IV, Option 2.1**8 credits**

Collecting research data; analyzing data; and writing research results, summary, discussion and recommendation.

393795 Dissertation V, Option 2.1**10 credits**

Submitting the completed draft of the dissertation to the committee chair, rewriting the draft of the dissertation previously submitted, submitting the corrected and revised dissertation to the Graduate School for oral examination, revising the dissertation, and submitting the completed dissertation to the Graduate School.

393891 Dissertation I, Option 2.2**4 credits**

Preliminary study and reading, intensive reading in advanced educational research and evaluation trends, study of advanced research related to research and evaluation with emphasis on the major, research title based on creativity, body of knowledge, construction of research and development innovation which can be used for the country's educational development, and presentation of the conceptual framework.

393892 Dissertation II, Option 2.2**6 credits**

Writing a research proposal, completing the first draft of the proposal, submitting it to the chair of the supervisory committee, rewriting the research proposal, and resubmitting it to the committee chair.

393893 Dissertation III, Option 2.2**8 credits**

Submitting the draft of the research proposal for the appointment of a committee, presenting the research proposal to the examination committee, and revising the research proposal.

393894 Dissertation IV, Option 2.2**8 credits**

Submitting the examined research proposal for approval and announcement, and developing research innovation and instruments.

393895 Dissertation V, Option 2.2**10 credits**

Collecting research data; analyzing data; and write research results, summary, discussion and recommendation.

393896 Dissertation VI, Option 2.2**10 credits**

Submitting the completed draft of the dissertation to the committee chair, rewriting the draft of the dissertation previously submitted, submitting the corrected and revised dissertation to the Graduate School for oral examination, revising the dissertation, and submitting the completed dissertation to the Graduate School.