

Dept. of Education

The graduate programs in the Department of Education enables students to gain a comprehensive understanding of education and, based on this foundation, choose specialized tracks for in-depth academic research. These include Educational Administration and Lifelong Education/HRD, Educational Psychology/Counseling and Educational Measurement and Evaluation, Creative Convergence Education Engineering, and Unification and Integration. Furthermore, recognizing the demands of society and learners in the AI era, it offers a microdegree program in AI Lifelong Customized Learning System Design and a thesis-waived master's program to enable swift and appropriate responses to contemporary trends. The program cultivates educational experts—including educational administrators, lifelong education specialists, counseling professionals, and instructional design experts—equipped with educational insight to set the right direction and provide solutions for various educational challenges. The degree acquisition process further enhances academic depth by operating a combined master's-doctoral program separate from traditional master's and doctoral tracks, offering graduate education seekers a broader range of choices.

This program cultivates the specialized research capabilities and originality essential for educational scientists engaged in empirical scientific inquiry and normative research on educational phenomena. It also enhances the ability to integrate various laws and theories concerning complex and diverse educational phenomena with educational practice, thereby establishing educational science within everyday life. Furthermore, it develops the teaching abilities and social service capabilities required of scholars specializing in educational studies in the major fields as follows:

□ **Educational Administration & Lifelong & HRD Education Major**

The goal is to research and explore the theory and practice of educational administration, thereby establishing the theoretical foundation of educational administration studies. It also aims to train and retrain educational administrators and policy makers, and to propose directions for establishing educational policy in Korea. Furthermore, it seeks to cultivate experts and scholars in lifelong education and HRD by exploring the theory and practice of lifelong education and HRD—fields whose importance is increasingly emphasized not only in schools but also in corporations, local communities, and various other sectors of society—and through in-depth analysis of the national lifelong education system and policies.

□ **Educational Psychology & School Counseling & Educational Measurement and Evaluation Education Major**

This program supports learners in understanding their diverse psychological

characteristics and the challenges encountered in teaching and learning processes, enabling them to grow into self-regulated learners through interventions at the individual, group, or school level. It enhances understanding of human growth and development, acquires theoretical and technical knowledge in counseling, and strengthens practical skills to cultivate the qualities and competencies required as a professional in learning counseling and school counseling. (Certifications: Korean Counseling Association, Korean Association of Counseling Psychology, Youth Counselor, Korean Educational Psychology Association Learning Consultant).

□ **Educational Measurement and Evaluation Major** : A master's and doctoral program that provides education enabling a deeper understanding of educational phenomena by systematically analyzing and interpreting various educational phenomena occurring in educational settings. It aims to cultivate advanced professionals capable of efficiently and effectively utilizing and implementing diverse statistical techniques to approach and understand educational phenomena more objectively.

□ **Creative Convergence Educational Technology Major**

The Creative Convergence Educational Technology Major analyzes diverse individual and organizational needs, learners, and environments to propose instructional and non-instructional solutions for human learning and performance issues. It researches the theory and practice of designing, developing, implementing, and evaluating alternatives through creative convergence approaches utilizing edutech.

□ **Multicultural and Reunification Education Major**

Unification and Integration Education primarily aims to cultivate educational research specialists capable of addressing both unification and integration. It is divided into education preparing for unification, education on the necessity and procedures of unification, and education concerning the post-unification educational system and its implementation. It comprehensively reflects societal demand, graduate student needs, and the department's academic readiness, aiming to broadly and professionally cultivate the capabilities required of researchers for education in a unified Korea.

❑ **Microdegree Major Fields: AI Adaptive Lifelong Learning System Design Curriculum**

This microdegree major targets the analysis and modeling of learners' lifelong learning characteristics, development, and contextual data across all stages (childhood–adolescence–adulthood–vocational and lifelong learning) using artificial intelligence technology at the master's and doctoral levels. It aims to design and validate personalized, adaptive learning experiences and educational systems based on this analysis. This major integrates learning theory, educational technology, learning analytics, and AI/data science. It focuses on developing competencies in designing customized learning pathways, providing predictive learning support, validating educational effectiveness, and applying these to policy and industry settings. Through research-based empirical analysis and field-linked projects, it aims to cultivate advanced researchers and specialized practitioners.

❑ **Courses**

❑ **Core Courses**

• **Basic Statistics for Educational Research(3)**

Basic Statistics for Educational Research covers descriptive statistics, analysis using statistical distributions, hypothesis testing via z-tests and t-tests, testing differences in means, simple regression analysis, and correlation. This course also utilizes the Statistical Package for Social Sciences (SPSS) to help students apply and understand the statistical techniques learned in class to various educational phenomena.

❑ **Educational Administration & Lifelong & HRD Education Major(3)**

• **Theory of Educational Administration(3)**

This course analyzes and synthesizes various theories of educational administration—task-centered, human-centered, behavioral science, and system-centered approaches—helping students understand them and apply them effectively in educational settings.

• **Educational Planning(3)**

Educational planning, the first step for educational administrators, involves designing the future of educational systems and school organizations. This course focuses on learning the foundational theories of educational planning and incorporating them into practice.

• **Educational Policy Analysis & Evaluation(3)**

This course provides a comprehensive analysis of the policy formation process

with a focus on major educational policies in Korea. It also applies diverse methodologies to conduct both ex-ante and ex-post evaluations of educational policies.

- **Educational Law in the Age of AI(3)**

The course explores legal and institutional changes in education and educational administration resulting from the spread of AI technologies. Students analyze laws and policies regarding privacy, accountability, fairness, ethics, and the right to education in AI-enhanced learning environments, building legal competencies for future education settings.

- **Study in School Management(3)**

This course introduces theoretical approaches and general models of school management, along with management techniques, and analyzes processes within school management systems.

- **Organizational Development in the Future School(3)**

Students examine the structure and operational strategies of future school organizations in the digital transformation and AI era. The course focuses on school organizational change, leadership, collaborative culture, and data-driven decision-making to design sustainable and innovative school systems.

- **Educational Leadership Development**

This course explores the concept of educational leadership, compares various leadership types, and applies insights to resolve issues and conflicts in Korean educational settings, promoting a forward-looking educational community.

- **Researches in Educational Administration(3)**

Students review recent domestic and international research in educational administration, grasp current trends, and explore future directions for research in the field.

- **Seminar on Educational Problems in Administration(3)**

The seminar identifies contemporary issues in education at local education boards, offices of education, and schools. Students discuss the nature, causes, and solutions to these issues and propose improvement strategies.

- **Practicum in Educational Administration(3)**

This practicum focuses on real-world educational administration, identifying issues and challenges, discussing solutions, and documenting outcomes to promote both quantitative and qualitative improvements in education.

- **Human Resource Management in Education (HRM)(3)**

The course covers theories and practices of HRM using AI. Students learn to design HR strategies and strengthen data-driven decision-making through AI-based recruitment, competency analysis, performance management, talent development, and predictive analytics.

- **Seminar in Lifelong Education and Human Resource Development(3)**

Students select topics within lifelong education and HRD, including organizational development theories, adult learning theories, and policy. The seminar promotes deep analysis and prepares students to plan and conduct their own research.

- **Theoretical Foundation of Lifelong Education(3)**

The course examines the concept, ideology, and purpose of lifelong education, tracing its development to understand trends in research and practice. Students also analyze the current state of lifelong education in Korea to enhance research capabilities.

- **Trends & Issues in Human Resource Development(3)**

This course introduces recent trends in HRD, fostering understanding of key research areas and topics. Students also analyze practical HRD phenomena to link theory with practice.

- **Adult Learning Theories and Methods(3)**

Students explore theories and literature on adult learning and educational methods, gaining foundational knowledge to apply in community, corporate, and higher education settings.

- **Dissertation Seminar in Educational Administration & Lifelong Education(3)**

This seminar equips students with practical knowledge in research topics, theoretical frameworks, and research methodology necessary for writing theses in educational administration and lifelong education.

- **Program Design for Lifelong Learning(3)**

Students study foundational theories and practical issues in designing lifelong education programs tailored to the psychological, emotional, and physical characteristics and learning needs of adult learners.

- **Life Cycle and Career Design(3)**

This course examines theories and empirical studies on career design across life stages, fostering theoretical and practical skills for lifelong career planning.

- **Lifelong Learning and HRD Program Evaluation(3)**

Students explore comprehensive evaluation models for inputs, processes, and outcomes of lifelong learning programs across communities, schools, industries, and government organizations, applying them in real research.

- **Coaching and Human Resource Development Consulting(3)**

This course examines the theoretical foundations and practical methodologies of HRD consulting and coaching. Students learn to apply coaching theories to support individual and organizational growth, organizational diagnosis, talent and career development, and performance improvement, fostering professional competencies required in HRD consulting practice.

□ **Educational Psychology & School Counseling & Educational Measurement and Evaluation Education Major**

- **Independent Study(3)**

Students select an individual research topic, submit a research proposal, and receive regular guidance from a faculty advisor to support the smooth progress of their thesis work.

- **Advanced Developmental Psychology(3)**

This course covers classical and contemporary theories of developmental psychology, explores developmental topics across the lifespan, examines their impact on healthy growth and psychological well-being, and provides a foundation for applying this knowledge to life transitions.

- **Advanced Psychological Assessment and Diagnosis(3)**

Students gain comprehensive understanding of the theoretical basis and advanced techniques of psychological assessment and diagnosis. The course develops practical evaluation skills across children, adolescents, and adults in diverse educational and counseling settings.

- **AI-Based Learning Data Analysis(3)**

Students learn to analyze and interpret various educational and learning data generated during the learning process using AI-based techniques. The course covers data collection, preprocessing, analysis, and visualization, and focuses on applying results to improve learning support and educational decision-making.

- **Structural Equation Models(3)**

Introduction to structural equation modeling (SEM). Students practice applying SEM using prepared datasets during class.

- **Multivariate Analysis of Variance(3)**

Introduction to multivariate statistics, including multivariate normal distribution, multivariate analysis, principal component analysis, and canonical correlation analysis. Students apply these methods using prepared datasets.

- **Hierarchical Linear Modeling(3)**

Introduces hierarchical models commonly used in education and social sciences, including handling responses in longitudinal studies. Students learn to build hierarchical models and interpret results.

- **Item Response Theory(3)**

Focuses on test and survey design, scoring, and analysis of latent abilities and attitudes. Students explore applications including differential item functioning, computer-adaptive testing, and scale linking.

- **Parent Education and Family Counseling(3)**

Covers various theoretical models of family therapy and practical techniques in clinical settings. Focus is on family interactions surrounding individual behavioral problems, providing students with knowledge and skills for effective counseling.

- **Counseling of Problematic Behaviors(3)**

Explores counseling strategies to address behavioral and psychological issues arising from overuse of technology and problem behaviors in AI-supported environments.

- **Counselor Education and Supervision(3)**

Students analyze cases following educational programs and counseling sessions. The course emphasizes improving counselors' personal qualities and professional development through guidance in counseling processes, skills, and ethics.

- **Seminar in Counseling Psychology**

Students review recent topics in counseling psychology and collaborate with external experts to establish practical research foundations, strengthening research skills through actual thesis writing exercises.

- **Various Therapeutic Approaches in Counseling Settings(3)**

Introduces modern counseling theories and multimedia therapies used in mental health services, evaluating their effectiveness for behavioral and psychological health issues.

- **Personality and Psychological Adjustment(3)**

Based on personality psychology theories, students examine causes and characteristics of contemporary behavioral problems and explore intervention strategies for psychological adjustment.

- **Research Ethics & Thesis Study(3)**

Prepares students to handle ethical issues in educational research. The course covers international research ethics standards to prevent plagiarism and cultivate sound ethical judgment in thesis work.

- **Psychopathology(3)**

Reviews adolescent psychopathologies and abnormal behaviors (e.g., delinquency, violence, addiction) from developmental and personality perspectives and explores intervention strategies.

- **Intermediate Statistical Methods for Educational Research(3)**

Covers regression analysis and analysis of variance. Students practice simple and multiple regression, model building, and various ANOVA techniques using prepared datasets.

- **Career Development and Counseling(3)**

Supports clients in exploring aptitudes, personality, and abilities to understand and prepare for suitable careers. Also addresses efficient human resource allocation in social contexts.

- **Group Counseling(3)**

Introduces concepts, theories, developmental stages, planning, and execution of group counseling, providing both theoretical understanding and practical experience.

- **Construction and Use of Evaluation Instruments(3)**

Introduces the development and application of tools for measuring psychological factors, covering statistical techniques and procedures for scale development.

- **Counseling and Consulting for Academic Achievement(3)**

Students apply educational and psychological theories to develop programs addressing academic, emotional, and motivational needs of students, and learn key concepts and models of consulting for teachers and parents.

- **Development and Practice of Academic Counseling Programs(3)**

Students design, implement, and evaluate individual and group programs in school

and counseling settings, strengthening counseling competencies as practitioner–scientists.

· **Theories and Practice of Learning Psychology(3)**

Reviews theoretical foundations of learning and motivation, examines current issues in educational settings, and explores strategies to enhance learning outcomes.

· **Contemporary Theories of Counseling and Psychotherapy(3)**

Explores widely used, theoretically grounded counseling and psychotherapy approaches, including fundamental concepts, principles, techniques, and processes.

· **Test Theory(3)**

Based on psychometric theory, students learn to evaluate item difficulty, discrimination, and predict learners' abilities.

□ **Creative Convergence Educational Education Engineering Technology and Curriculum Major**

· **Future Education Research(3)**

Explores the competencies, knowledge, and skills required of future talent in the rapidly changing 4th and 5th Industrial Revolution eras. Analyzes gaps in current school curricula and investigates pedagogical and comparative solutions to prepare students for future learning and skills development.

· **Artificial Intelligence & Education(3)**

Examines the characteristics of AI and its impact on human education from multiple perspectives. Analyzes AI software applications and their potential effects on learning, and conducts foundational research for designing AI–based educational programs.

· **Application of Teaching and Learning Theory(3)**

Studies behavioral, cognitive, and constructivist perspectives on teaching and learning. Develops knowledge and skills to effectively and efficiently design learning experiences based on these theories.

· **Cognitive Science Based Instructional Design(3)**

Explores cognitive science theories, including cognitive and constructivist approaches, and their application to instructional design models. Analyzes learning tasks, research processes, and outcomes to understand cognitive processes and their implications for educational practice.

- **Advanced Seminar on Curriculum Studies(3)**

Reviews recent research articles in national and international journals. Students learn about current trends in curriculum research methods and gain insights relevant to their own graduate-level thesis work.

- **AI Learning System Design(3)**

Focuses on designing intelligent and adaptive learning systems that integrate AI with learning theory and instructional design principles. Students design AI-supported functions, such as personalized learning, learning analytics, automated feedback, and learning path recommendations, and explore methods to evaluate their effectiveness.

- **Statistical Thinking with Data(3)**

Develops statistical reasoning and data interpretation skills necessary for AI and educational research. Emphasizes variability, uncertainty, and inference, and trains students to apply statistical methods critically for research and decision-making.

- **Education and Knowledge(3)**

Examines epistemological issues related to knowledge and applies them to the context of education. Integrates individual and social epistemology to foster a comprehensive understanding of knowledge in education.

- **Classics in Education(3)**

Studies Western and Eastern educational classics to enhance expertise in humanities-focused education and strengthen foundational skills for educational philosophy and humanities research.

- **Trends and Issues in Educational Design Technology(3)**

Investigates recent theories, models, instructional design, strategies, technology applications, and research and evaluation methods in educational technology. Discusses implications for enhancing human learning and performance.

- **Design & Development of Instructional Systems(3)**

Under instructor guidance, students select research topics related to computers, multimedia, distance education, and instructional programs. They design and develop instructional systems based on theoretical foundations.

- **Research in Adaptive Instructional Systems(3)**

Explores curriculum design tailored to learner abilities, aptitudes, career paths, social and personal needs, and academic performance. Designs learner-centered,

adaptive instructional systems based on current learning theories.

- **Creativity and Problem Solving(3)**

Explores theories and research related to creativity, creative thinking, and problem-solving. Builds a theoretical foundation for developing creative problem-solving skills.

- **Convergence Education Design(3)**

Designs practical creative convergence education programs based on interdisciplinary educational models, theories, and programs. Conducts formative assessments centered on a chosen subject or target group.

- **Seminar in Instructional Design Technology(3)**

Analyzes current issues and research trends in instructional design. Explores theories and practices of instructional design, discusses research tasks, and conducts individual research projects based on existing literature.

- **Seminar in Creativity Convergence Education(3)**

Critically analyzes and evaluates various research studies emphasizing creativity and convergence, focusing on specific targets, subjects, problems, or cases.

- **AI and Data Coding(3)**

Develops foundational and intermediate coding skills for AI-based research and data utilization in education and social sciences. Students practice data collection, preprocessing, analysis, visualization, and understand data structures for AI model application and reproducible research.

- **STEAM Curriculum(3)**

Studies theoretical foundations and principles of STEAM curriculum design. Analyzes real-world curriculum examples to strengthen teaching and learning design skills that foster creative thinking and problem-solving through integration of Science, Technology, Engineering, Arts, and Mathematics.

- **Multicultural and Reunification Education Major**

- **Civic Education for Reunified Korea(3)**

Emphasizes the development of competent citizens with the skills needed in a reunified Korea. The course examines the characteristics of such citizens and the content and methods of civic education tailored to the specific context of reunification.

- **Reunification Education Methods and Practice(3)**

Focuses on the practical implementation of reunification education in schools. Students explore teaching and learning methods for reunification and integration education, emphasizing hands-on, practice-oriented approaches.

• **Research in Reunification Education(3)**

Covers research perspectives ranging from policy to theory and philosophy. Students review existing studies in reunification education, learn about current research trends, and develop skills for planning and conducting their own future research projects.

texts from Eastern and Western traditions. Explores the contemporary significance and educational implications of classical thought, fostering an integrated perspective on character education and its practical application in schools.