

School			
Major	Teaching Diploma in Sciences		
Core Requirements			
Code	Title	Credits	Description
EDUC5000	Fundamentals of Education	2	Fundamentals of Education is a foundational course for graduate students in a teaching diploma program, designed to deepen understanding of educational theories, teaching methodologies, and curriculum development. This course encourages critical analysis of educational philosophies and explores evidence-based practices for creating effective learning environments. Through a blend of theoretical exploration and hands-on applications, students will prepare to engage in meaningful, student-centered teaching practices.
EDUC5001	Classroom Dynamics	3	This course is designed to equip teachers with the necessary knowledge and skills to effectively manage a classroom environment that fosters learning, respect, and positive student behavior. Throughout the course, students will explore various theories, techniques, and strategies that are proven to promote student engagement and academic success while maintaining a safe and orderly classroom environment. The course begins with an introduction to the principles of classroom management, including the importance of establishing clear expectations and rules, creating a positive classroom culture, and building relationships with students. Students will also learn how to use positive reinforcement and motivation to encourage desired behaviors and academic progress. In subsequent modules, the course will cover a range of topics related to classroom management, including classroom organization, instructional strategies, student assessment, and intervention techniques. Students will learn how to manage various types of behavior, including disruptive behavior, off-task behavior, and challenging behavior. They will also learn how to communicate effectively with students, parents, and colleagues, and how to work collaboratively to create a positive and productive learning environment. By the end of the course, students will have gained a deep understanding of the principles and practices of effective classroom management. They will be able to apply these skills in a variety of educational settings, from early childhood to secondary education, and will be well-prepared to create and maintain a safe, engaging, and productive classroom environment. The concepts in this course are reinforced by in-class discussions, group work, and authentic activities.
EDUC5002	Assessment in Education: Principles and Practices	3	This course is designed to provide students with an understanding of the principles and practices of assessment and evaluation in education. The course will cover various topics related to assessment and evaluation, including: Theoretical foundations of assessment and evaluation, Types of assessment and evaluation Assessment and evaluation methods, The role of assessment and evaluation in curriculum development, The role of assessment and evaluation in instructional design, The use of technology in assessment and evaluation, Ethical issues in assessment and evaluation, Validity and reliability in assessment and evaluation, Data analysis and interpretation in assessment and evaluation, Reporting and communicating assessment and evaluation results. Throughout the course, students will engage in class activities and projects that will allow them to apply their knowledge and skills in assessment and evaluation. They will also have the opportunity to analyze and evaluate current assessment and evaluation practices in education and propose improvements based on their learning. By the end of the course, students will have a solid understanding of the principles and practices of assessment and evaluation in education, and they will be able to design, implement, and evaluate effective assessment and evaluation strategies.

EDUC5003	Educational Psychology: Learning and Teaching	3	This course provides an in-depth exploration of educational psychology, focusing on the cognitive, social, and emotional factors that influence student learning and development. Students will examine key theories and research on developmental stages, motivation, learning theories, classroom management, and assessment strategies. The course bridges theory and practice, enabling students to apply psychological insights to design effective teaching strategies and create supportive, engaging learning environments. Through a mix of lectures, case studies, group discussions, role-playing, and reflective activities, students will develop the skills needed to enhance learning outcomes, manage diverse learning needs, and foster positive classroom dynamics. By the end of the course, students will be able to apply fundamental psychological principles in their teaching practice, utilizing motivational and classroom management techniques to support student development and achievement. In addition, students will be equipped with a solid foundation in educational psychology, allowing them to design and implement teaching practices that align with the developmental and psychological needs of their students. They will be able to assess and address a variety of learning challenges, fostering a supportive and dynamic classroom environment
EDUC5500	Educational Sociology	2	This course invites students to explore the dynamic relationship between education and society through various theoretical perspectives, emphasizing how education can both perpetuate and challenge social inequalities. The objectives of the course include analyzing and applying key educational theories, exploring how schools contribute to inequality and stratification, and developing critical thinking skills to evaluate educational practices and policies. Rooted in the belief that education is a powerful tool for personal growth and societal change, the course encourages active participation and critical engagement. Students will engage in interactive discussions, mini-lectures, video clips, experiential activities, and group exercises to bridge the gap between theory and practice. By the end of the course, students will be able to critically analyze educational theories, understand the impact of education on social mobility and inequality, and apply their knowledge to real-world educational settings. This course is designed for graduate students in education-related fields, offering valuable insights into the intersection of education and society.
EDUC5501	Professional Ethics and Law in Lebanese Educational System	3	This course delves into professional ethics and educational laws within the Lebanese educational system. It equips educators with a thorough understanding of their legal rights, responsibilities, and ethical obligations through the study of Lebanese educational law, teachers' codes of conduct, and ethical dilemmas in educational settings. Students will engage in critical thinking, ethical decision-making, and practical applications of educational policies, fostering a commitment to equitable and responsible practices. The course employs a reflective, analytical approach, integrating lectures, case studies, discussions, role-playing, and scenario analyses to prepare educators for real-world challenges.

EDUC5502	Educational Media and Technology	3	How can educators harness the power of technology to transform learning and engage students in meaningful ways__ This course delves into the foundational and advanced aspects of integrating educational media and technology into teaching. Students will explore a variety of tools and platforms, from Google Apps and collaborative technologies to cutting-edge artificial intelligence, to design dynamic and interactive learning experiences. Through hands-on practice and collaborative projects, students will learn to critically assess and select appropriate technologies, design technology-enhanced assessments, and create effective instructional plans. Topics include technology integration models (TPACK, SAMR), innovative tools for teaching and assessment, and current trends in educational technology. By the end of the course, students will have developed a mini-synthesis of research on educational technology and gained practical experience in leveraging technology to meet diverse learning needs. This course prepares educators to lead in the digital age, equipping them with the skills and strategies needed to enhance motivation, engagement, and efficacy in modern classrooms.
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Major Requirements			
Code	Title	Credits	Description
EDUC5020	Teaching Science I	3	The course provides an overview of current approaches, issues, and practices in teaching Sciences. It introduces students to a variety of instructional methods, strategies, and best practices for teaching science at the secondary level. Emphasis is placed on developing practical teaching techniques that engage students, foster scientific inquiry, and promote critical thinking. The course presents relevant approaches for helping science students acquire knowledge, attitudes, and skills essential to science literacy. The different objectives of this course will be reinforced through classroom discussions, case studies, and authentic assessments. In this course, graduate students will explore the concepts and theories behind Scientific Teaching. They will have an opportunity to experience science in the classroom, select the most appropriate strategies and materials to meet students's needs, and plan for hands-on, minds-on science activities, experiments, and investigations. By the end of the course, students will be able to design and implement effective science lessons, assess student progress, and create a classroom environment that supports active learning and scientific exploration.
EDUC5520	Teaching Science II	3	This course builds on foundational knowledge gained in earlier science education courses, focusing on the more complex pedagogical theories, practices, and strategies for teaching science at the secondary school level. This course delves deeply into constructivist approaches to teaching, providing students with advanced knowledge and practical skills to support the development of scientific thinking, inquiry, and problem-solving skills among secondary students. Emphasizing active learning, critical thinking, and authentic assessment, the course prepares future science teachers to create engaging, inclusive, and challenging science learning environments. Students will explore how to design, implement, and assess curriculum units that foster deep conceptual understanding in science. Additionally, the course focuses on strategies for addressing diverse learning needs, managing science classrooms, and integrating current research on best practices for science instruction. By the end of the course, students will be equipped to create lesson plans and classroom activities that promote meaningful science learning, encouraging students to connect scientific knowledge with real-world applications and ongoing scientific inquiry.

EDUC5521	Practicum of Teaching Science	3	The course "Practicum of Teaching Sciences" offers students a comprehensive and hands-on experience in the practical aspects of teaching science subjects. Through a combination of classroom observations, supervised teaching practice, and reflective discussions, students will develop their pedagogical skills, instructional strategies, and classroom management techniques specific to science education. The course emphasizes the application of theoretical knowledge in real-world teaching settings, allowing students to refine their abilities in lesson planning, curriculum development, and student assessment. Students will also explore innovative teaching methods, laboratory safety protocols, and inquiry-based learning approaches to foster scientific curiosity and critical thinking in their future students. By the end of the course, students will have gained the necessary practical experience and confidence to excel as effective science educators, capable of inspiring a passion for scientific exploration and inquiry in their learners.
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