

School			
Major	Bachelor in Basic Education - Sciences		
General Education Requirements			
Code	Title	Credits	Description
ARAB200	Arabic Language and Literature	3	ØªØªØ£ÙÙÙÙ ÙÙØ§Ø´Ø© Ø§ÙÙÙÙØ²Ø© Ø§ÙÙØ¹Ø±Ø´ÙÙØ© ÙÙØ£Ø´Ø§Ø´ÙÙØ§ ÙÙØ²ÙÙØ± Ø§ÙÙÙÙØªØ®ØµØµÙÙÙÙ ÙÙÙÙ Ø«ÙÙØ§Ø«Ø© Ø£ÙÙØ³Ø§ÙÙÙÙ Ø£ØØ´ÙÙØ§ ÙÙØªÙÙØ§ÙÙÙÙ Ø´Ø±ÙÙØ³Ø§ÙÙ Ø£Ø³Ø§Ø³ÙÙØ© ÙÙÙÙ Ø§ÙÙÙÙØÙÙ ÙÙØ§ÙÙØµØ±ÙÙ ÙÙØ§ÙÙÙÙÙÙÙÙØ²Ø². ÙÙØ§ÙÙØ«Ø§ÙÙÙÙ ÙÙØªÙÙØ§ÙÙÙÙ ÙÙØ´Ø§ØØ«ÙÙÙÙ Ø§ÙÙØ£Ø´Ø´ ÙÙØ§ÙÙØªØ²ÙÙÙÙÙÙ. Ø£ÙÙØ§ Ø§ÙÙÙÙØ³ÙÙ Ø§ÙÙØ«Ø§ÙÙØ« ÙÙÙÙØ¹Ø§ÙÙØ¬ Ø´Ø¹Ø¶ ØªÙÙÙÙÙÙØ§Øª Ø§ÙÙØªØ¹Ø´ÙÙØ± ÙÙØ§ÙÙØªÙÙØ§ØµÙÙ.
CSCI200	Introduction to Computers	3	The course aims at making students competent in computer-related skills. It is supposed to develop basic computer interface knowledge by providing an overview of managing folders and files, opening a start menu, and hands-on practice on typical software applications such as Word, Excel, and PowerPoint. The student will learn how to use the new features of Microsoft Office 2017, mainly Word documents, Excel spreadsheets, and PowerPoint presentations. Moreover, the course aligns with the Cisco Networking Academy® Get Connected course, which helps students understand how to connect to the Internet.
CULT200	Introduction to Arab - Islamic Civilization	3	ØªÙÙÙÙØ«ÙÙÙÙ Ø§ÙÙØØ¶Ø§Ø±Ø© Ø§ÙÙØ¹Ø±Ø´ÙÙØ© Ø§ÙÙØ¥Ø³ÙÙØ§ÙÙÙÙØ© ÙÙØ§ØØ´Ø© ÙÙÙÙ Ø£ÙÙÙÙ Ø§ÙÙØ-Ø¶Ø§Ø±Ø§Øª ÙÙÙÙ Ø§ÙÙØªØ§Ø±ÙÙØ® Ø´ÙÙØ§ Ø£ÙÙØ¬Ø²ØªÙÙ ÙÙÙÙ Ø¥Ø´Ø´Ø§Ø¹Ø§Øª Ø¹ÙÙÙÙÙÙØ© ÙÙØ«ÙÙØ§ÙÙÙÙØ© ÙÙØØ¶Ø¶Ø§Ø±ÙÙØ© ØªØ±ÙÙØª Ø£Ø«Ø±ÙÙØ§ Ø§ÙÙØ¹Ø´ÙÙÙÙ ÙÙÙÙ ØªØ§Ø±ÙÙØ® Ø§ÙÙØ´Ø´Ø±ÙÙØ©. ØªÙÙØ´ÙÙÙÙÙÙ ÙÙØ°ÙÙ Ø§ÙÙÙÙØ§Ø´Ø© Ø§ÙÙØ´Ø±Ø§Ø³ÙÙØ© ÙÙÙÙØ´ÙÙØ©ÙÙ Ø£Ø³Ø§Ø³ÙÙØ© ÙÙÙÙØªØ¹Ø±ÙÙ ÙÙÙÙ Ø¹Ø±Ø´ÙÙ Ø¹ÙÙÙÙ ØªØ§Ø±ÙÙØ® Ø-Ø¶Ø§Ø±ØªÙÙÙÙ ÙÙØ§ ÙÙÙÙÙÙØªØ®Ø± Ø´ÙÙØ§ ÙÙØØ³Ø´Ø¶ Ø´ÙÙ ÙÙÙÙØ¬Ø¹ÙÙ ÙÙÙÙÙÙØ§ ØØ§ÙÙØ²ÙÙØ§ ÙÙØ³ØªÙÙÙÙØ¶ Ø´ÙÙ ÙÙØ§Ø´ÙÙÙÙÙÙØ§ÙÙ ÙÙÙÙØ´Ø±Ø§ØªÙÙ Ø§ÙÙØ¹ÙÙÙÙÙÙØ© Ø§ÙÙÙÙØ§ÙÙÙÙØ© ÙÙØ¥Ø¹Ø¹Ø§Ø´Ø© Ø§ÙÙØ§Ø³ØªÙÙÙÙØ§ Ø§ÙÙØ-Ø¶Ø§Ø±ÙÙ. ÙÙØªØ±ÙÙ Ø§ÙÙÙÙØ§Ø¶ÙÙ ÙÙÙÙÙÙØ§ Ø´ÙÙÙÙ Ø´Ø¹ÙÙØ±ÙÙ ÙÙØ§Ø¹ÙÙ ÙÙÙÙÙÙØ§Ø¶ Ø¹ÙÙÙÙ Ø£ÙÙÙÙ ÙÙØ°Ø§ Ø§ÙÙÙÙÙÙÙÙØ±ÙÙØ± Ø§ÙÙØ´Ø±Ø§Ø³ÙÙ ÙÙØØ§ÙÙÙÙ Ø£ÙÙÙÙ ÙÙØ³ØªØªØ«ÙÙØ± Ø§ÙÙÙÙØ¹ÙÙ Ø§ÙÙØØ¶Ø¶Ø§Ø±ÙÙ ÙÙØ§ÙÙØ«ÙÙØ§ÙÙÙÙ Ø¹ÙÙØ´Ø§ÙÙØ·ÙÙØ§Ø´ Ø§ÙÙØ¹Ø±Ø´Ø¶ ÙÙÙÙØ³ØªÙÙÙÙØ´ ÙÙÙÙ ÙÙØ°Ø§ Ø§ÙÙÙÙÙÙØ®Ø²ÙÙÙÙ ÙÙÙÙØµÙÙØ¹ Ø£ÙÙÙÙÙÙÙÙØ§ Ø¬Ø´ÙÙØ´ÙÙØ§ ÙÙÙÙÙÙØ³ØªÙÙØ´ÙÙ.
ENGL201	Composition and Research Skills	3	This course builds upon the skills acquired in pre-requisite courses mainly ENGL 151 to further develop students’ critical thinking and academic writing competencies. Students will read and respond to a variety of texts from different disciplines and produce a research paper using analytical and critical skills in response to texts.
ENGL251	Communication Skills	3	Workplace Occupational Writing is an advanced interdisciplinary writing course emphasizing workplace and technical communication and editing appropriate to diverse professions. It incorporates practice and study of selected types of discourse employed in professional writing situations, preparing students for different systems of writing in their professional lives. Examples from the writing of workplace professionals are analyzed and used as models to demonstrate the transition from academic to professional writing.
Core Requirements			
Code	Title	Credits	Description
SSCI205	Introduction to Psychology	3	This course explores brain structure and functions, including thinking/decision making, and cognition. It examines personality development, behavior, and intelligence. Students will learn about stress, health psychology, and the nature and causes of mental disorders.

EDUC220	Principles of Education	3	Teaching is both a creative and structured endeavor that involves motivating, guiding, and supporting learners. This course provides a foundational introduction to the core principles and practices of effective teaching, setting the stage for a lifelong journey in education. Through a combination of interactive lectures, case-based discussions, and practical activities, students will explore essential topics such as the qualities of effective educators, student diversity, curriculum planning, classroom management, and the integration of educational technology. Learners will gain the skills necessary to design dynamic, inclusive, and tech-enhanced learning environments. They will also engage with authentic teaching scenarios, collaborate with peers on educational tasks, and reflect on their evolving roles as educators. By the end of the course, students will have a clear understanding of the educator's impact, be equipped with evidence-based teaching strategies, and foster a commitment to ongoing professional development. This course empowers future educators with the knowledge, confidence, and mindset needed to positively influence learners and educational communities.
EDUC222	Basics of Educational Psychology	3	Unlocking How We Learn: How do our thinking, social interactions, values, and actions shape how students learn and grow__ This course dives into the core ideas of educational psychology, helping students understand how learners develop. By grasping these key areas, students will learn to create lively lessons and implement effective classroom management strategies. Throughout this course, students will explore the basic ideas and important theories about how people develop, including their thinking, social lives, moral understanding, and behaviors. The approach emphasizes seeing the whole picture, encouraging students to use what they learn in real classrooms. Through interesting talks, discussions, and hands-on activities, students will gain the tools and knowledge needed to support students' growth at every stage. By looking at both the theories and how they work in practice, students will see how different teaching methods affect learning outcomes. This course aims to equip future educators with the skills to enhance learning across diverse educational settings, fostering both student growth and their own professional journey.
EDUC251	Development of Children and Adolescents	3	Ever wondered how a tiny baby transforms into a complex teenager__ This course takes students on a fascinating journey through the crucial stages of child development, exploring the major theories and cutting-edge research from the very beginning of life all the way to the start of formal schooling. It will delve into the powerful forces that shape young lives, including the dynamics within families, the impact of school settings, and the influence of socioeconomic factors. Ultimately, this course aims to give students a solid grasp of the key ideas and areas in childhood and adolescent development, along with effective teaching approaches that truly support the well-being of young learners.
EDUC252	Psychology of Learning	3	How do we gain insight into the psychological mechanisms that drive learning, and how can we leverage this understanding to improve educational practices__ This course delves into foundational theories of learning and cognitive processes, with particular emphasis on key concepts such as memory, motivation, metacognition, and self-regulation. Through a range of interactive and applied learning experiences—including lesson planning, case analyses, and collaborative dialogue—students will translate theoretical knowledge into practical strategies for addressing real-world educational challenges. By the end of the course, students will be equipped to design effective learning environments, select and implement appropriate instructional techniques, and correct common misconceptions, all while nurturing both critical and creative thinking. Ultimately, the course prepares students to cultivate learner-centered classrooms that support deep and lasting knowledge acquisition.

EDUC253	Technology Integration in Education	3	How can educators thoughtfully incorporate technology to boost student achievement and engagement__ This course delves into the evolving role of technology in the classroom, focusing on key themes like technology-enhanced instruction, digital tools for differentiated learning, and the latest innovations in educational tech. Through experiential learning, collaborative projects, and case-based analysis, students will connect theory to practice by integrating digital tools into authentic educational contexts. By the end of the course, learners will be equipped to choose and implement appropriate technologies across diverse educational settings, and design learner-centered, tech-infused lessons that foster deep engagement and academic success.
EDUC254	Basics of Assessment & Evaluation	3	Assessment of Learning offers a comprehensive exploration of both the theoretical frameworks and research-based practices that inform effective assessment in educational settings. Designed for future educators, the course develops the competencies necessary to design, implement, and evaluate a variety of assessment strategies that enhance teaching and learning while promoting equity and inclusion. Grounded in contemporary theories of learning and supported by empirical studies, this course examines key principles of educational measurement, including validity, reliability, fairness, and utility. Students will engage with a range of assessment types—formative, summative, diagnostic, and performance-based—along with tools such as rubrics, standardized tests, and digital assessment platforms. Emphasis is placed on aligning assessments with instructional objectives and curriculum standards, using assessment data to inform pedagogical decisions, and integrating culturally responsive and inclusive practices. Through a combination of interactive lectures, case study analysis, collaborative tasks, and practical workshops, students will gain hands-on experience in constructing assessment tools, interpreting data, and adapting assessment strategies to meet the needs of diverse learners. By the end of the course, students will demonstrate not only a solid understanding of foundational and contemporary theories of assessment but also the ability to apply these principles to real-world classroom contexts in ways that support student learning, foster motivation, and guide professional practice.
EDUC255	Fundamentals of Curriculum Design	3	This course provides an in-depth introduction to the core principles and practices of curriculum design within a global educational context. Students will engage with key topics including curriculum theory, educational standards, and the evolving role of technology in shaping curriculum development. Through a combination of interactive lectures, real-world case studies, and practical activities, learners will explore how historical, cultural, and societal factors influence curriculum and how it can be adapted to serve diverse learning communities. By the end of the course, students will be able to design inclusive, responsive curricula that address both local and international educational needs. They will gain the tools to build curriculum frameworks that encourage critical thinking, uphold educational equity, and support continuous learning across varied educational settings.
EDUC320	Fundamentals of Classroom Management	3	Ever wonder how some classrooms just click, buzzing with focused energy and a genuine love for learning__ The secret often lies in effective classroom management — the very foundation upon which student potential is built and a positive learning environment flourishes. This course delves into the pivotal role of teachers as builders of such spaces, exploring how to cultivate an atmosphere where students are not just present, but deeply engaged and set up for success. It will uncover practical strategies for establishing a proactive classroom where students naturally immerse themselves in tasks, easily follow established rules and routines, and experience the focus that comes from minimal distractions. Furthermore, this course equips future educators with effective classroom management tools to help prepare them for addressing disciplinary challenges and fostering a truly productive space for learning. By the end of this course, participants will possess the tangible skills to translate these strategies into real-world classroom settings, ensuring a focused, supportive environment where every student can thrive.

EDUC322	Instructional Methods	3	This course offers a comprehensive exploration of evidence-based instructional methodologies designed to promote meaningful, inclusive, and student-centered learning. Grounded in contemporary educational theories and supported by empirical research, Methods of Teaching equips future educators with the pedagogical knowledge and practical skills needed to plan, implement, and assess effective instruction across diverse educational settings. Participants will examine core components of instructional design, including lesson planning aligned with learning outcomes, curriculum standards, and learner diversity. Emphasis is placed on selecting and adapting teaching strategies that foster active engagement, critical thinking, and collaborative learning. Students will explore a range of instructional models—such as direct instruction, inquiry-based learning, cooperative learning, and differentiated instruction—and will develop competencies in applying these models based on contextual and student-specific needs. The course also investigates principles of classroom management, highlighting strategies for creating safe, equitable, and productive learning environments. Topics include managing classroom dynamics, responding to student behavior, and cultivating positive teacher-student relationships through proactive and restorative practices. Through lectures, case-based learning, lesson simulations, and reflective practice, students will bridge theory and practice, gaining the ability to make informed instructional decisions grounded in research and real-world application. By the end of the course, participants will be able to demonstrate a holistic understanding of effective teaching practices and will possess a versatile instructional toolkit to support student success in today's dynamic classrooms.
EDUC350	Basics of Special Education	3	Imagine a classroom where every student, regardless of their unique learning needs, feels supported and empowered to thrive. This course dives into the essential world of special education, exploring the core concepts, legal frameworks, and practical strategies for effectively supporting diverse learners within general education settings. Students will investigate the wide spectrum of exceptionalities and their characteristics, from learning disabilities to emotional and behavioral disorders, gaining critical insight into their impact on learning and behavior. Through engaging discussions and hands-on activities, the course will equip students with the knowledge to implement inclusive practices and differentiate instruction effectively. Students will learn to develop accessible lesson plans and utilize innovative tools to cater to all students' needs. Furthermore, the course will provide a thorough understanding of how to implement Individualized Education Programs (IEPs) for students with special needs. By the end of the course, students will possess a foundational understanding of special education, enabling them to cultivate inclusive and supportive classroom environments. They will be prepared to identify and address the diverse needs of students with disabilities, employ effective teaching methodologies, and collaborate with families and professionals to foster the success of every learner.
Major Requirements			
Code	Title	Credits	Description
EDUC325	Teaching Learners at Elementary Level	3	This course equips future educators with the foundational knowledge and practical competencies essential for effective teaching at the elementary level. Emphasizing both pedagogical development and reflective practice, students will explore contemporary instructional strategies through interactive case studies, experiential tasks, and peer collaboration. The course highlights the value of observation, professional dialogue, and self-reflection in shaping effective teaching habits and classroom dynamics. Learners will analyze authentic teaching scenarios, design targeted lesson plans, and participate in classroom simulations to deepen their understanding of student-centered instruction. Focused on building inclusive, engaging, and supportive learning environments, the course prepares students to address the diverse academic and developmental needs of young learners. By the end of the course, students will demonstrate the ability to foster curiosity, collaboration, and critical thinking in elementary classrooms.

EDUC326	Teaching Learners at Intermediate Level	3	This course provides a focused exploration of the educational, developmental, and emotional needs of learners in the intermediate years. Centered on adolescent development, it equips future educators with the tools to cultivate inclusive and responsive learning environments that foster both academic and personal growth. Emphasis is placed on relational pedagogies, student well-being, and collaborative teaching practices that promote engagement and motivation. Through an examination of curriculum design, instructional strategies, and assessment methods tailored to this age group, students will gain a comprehensive understanding of how to support learners during a critical stage of identity formation and cognitive development. Through reflective inquiry, case studies, and classroom-based simulations, students will emerge prepared to implement differentiated and developmentally appropriate practices that inspire critical thinking, resilience, and a lifelong love of learning in diverse intermediate learners.
EDUC354	Understanding Research in Education	3	This course provides an introduction to the foundational sources and methodologies of educational research. It equips students with the skills needed to navigate the six key steps of the research process: identifying a research problem, reviewing relevant literature, defining a purpose, collecting data, analyzing and interpreting results, and presenting findings. Additionally, the course covers fundamental concepts of descriptive statistics.
EDUC422	Teaching Practicum I	3	This course offers a foundational experience for future educators, serving as a critical bridge between educational theory and real-world classroom practice. Designed to cultivate reflective, adaptable, and student-centered teaching approaches, the practicum emphasizes experiential learning through 60 hours of structured classroom observation, tailored to the specific focus of each education major. Throughout the course, students will explore a variety of instructional methods, classroom management strategies, and assessment tools, while engaging with constructivist, brain-based, and metacognitive learning theories. Grounded in a philosophy of inclusivity and lifelong learning, the course integrates reflective dialogue, observation tools, evaluation rubrics, and the development of a professional portfolio to track student growth. By the end of the practicum, students will be able to critically evaluate teaching practices, contribute to inclusive and effective learning environments, and clearly express their evolving instructional philosophy—preparing them to meet the diverse and ever-changing demands of today's educational landscape.

EDUC452	Teaching Practicum II	3	This course serves as a crucial follow-up to Teaching Practicum I, advancing students' instructional competence and deepening their practical teaching experience within authentic classroom environments. Building on the foundational insights gained in the first practicum, this course transitions students from primarily observational roles to active teaching responsibilities. Emphasizing the integration of theory and practice, the course enhances students' abilities in lesson planning, differentiated instruction, classroom management, and learner engagement, preparing them to address the varied needs of today's diverse classrooms. Through immersive teaching placements, students will observe, reflect, and take on teaching duties while applying pedagogical theories to real-world contexts. Core topics include advanced instructional strategies such as constructivist methods, active learning, and problem-based learning. Students will also explore classroom differentiation, assessment techniques, and inclusive teaching practices to meet the needs of all learners. Throughout the course, students will refine their capacity to design and deliver comprehensive, student-centered lesson plans that promote critical thinking, creativity, and participation. Assignments include microteaching, full-class teaching demonstrations, and the development of a professional teaching portfolio. Continuous feedback from mentor teachers and peers supports reflective practice and ongoing improvement. By the end of the course, students will have confidently applied effective teaching strategies in classroom settings, built a reflective portfolio featuring lesson plans and teaching artifacts, and developed key professional tools such as CVs and cover letters. This practicum equips aspiring educators with the skills, confidence, and professional readiness required for successful entry into the teaching profession.
BIOL200	General Biology I	3	This course aims to familiarize the student with the organization and classification of living systems. The covered topics include mainly the cell structure and function, cell division, cell biochemistry, cellular respiration, DNA structure and protein function, as well as animal development and classification. This course has a separate one credit-laboratory component.
CHEM200	General Chemistry	3	This course is a first semester course, intended for students who desire to acquire the basic principles in chemistry. The emphasis of the course will be on the fundamental principles of general chemistry, which include terminology, qualitative concepts and quantitative skills. The general topics included in this course are: Quantum Theory of the Atom; Electrons and Periodicity; Bonding; Molecular Geometry; Hybridization; Acid/base Chemistry; Kinetics and reactions mechanism and Solubility and Complex ion equilibria.
EDUC332	Elementary Level Science Concepts	3	Elementary Level Science Concepts offers an in-depth exploration of core scientific concepts and instructional strategies essential for teaching science at the elementary level. It emphasizes inquiry-based and constructivist approaches, aligning with the 6E instructional model to foster scientific literacy and critical thinking. Students will investigate key ideas from physical, life, and earth/space sciences while developing lesson plans that reflect current best practices in science education.
EDUC363	Teaching Sciences in Basic Education	3	This course prepares aspiring educators to inspire and empower learners in the primary and middle grades through effective science teaching. By cultivating essential knowledge, skills, and innovative strategies, participants will learn to nurture curiosity and a profound appreciation for scientific exploration. The course emphasizes active learning through hands-on experiments, collaborative projects, and thoughtful reflection, equipping future educators to excel as science instructors. Through a focus on inquiry-driven teaching methods and the integration of cutting-edge technology, participants will be trained to foster inclusive, engaging, and dynamic learning environments that encourage scientific literacy and critical thinking.

EDUC364	Fundamentals of Physical Sciences	3	This introductory course explores the foundational principles of the physical sciences, guiding students through an exciting journey across key topics such as measurement, force and motion, work and energy, waves and sound, optics and wave phenomena, electricity and magnetism, chemical elements, chemical reactions, and organic chemistry. Through dynamic, hands-on activities and thought-provoking experiments, students will develop a robust understanding of scientific principles. The course emphasizes inquiry-based learning and fosters critical thinking, creativity, and problem-solving skills. By connecting theory to real-world applications, this course inspires curiosity and demonstrates the impact of physical science in everyday life.
EDUC365	Teaching Sciences with Technology	3	How can future educators effectively leverage technology to enhance science instruction and student understanding__ This course explores the dynamic intersection between science education and technology, equipping pre-service teachers with both theoretical knowledge and practical strategies for tech-infused instruction. Through an inquiry-driven, hands-on approach, students will examine how tools like simulations, virtual labs, and interactive digital platforms can transform learning in early years, primary, and intermediate science classrooms. Emphasis is placed on designing learner-centered, standards-aligned science experiences that promote exploration, engagement, and critical thinking. By the end of the course, learners will be able to assess, apply, and reflect on technology integration practices, preparing them to become innovative science educators.
EDUC432	Basics of Earth Sciences	3	This course offers an immersive introduction to the core concepts of earth sciences, encompassing geology, meteorology, oceanography, and astronomy. By emphasizing inquiry-based learning and integrating cutting-edge technology, the course equips aspiring educators with the skills to design stimulating and inclusive earth science learning environments. Through exploration of fundamental principles, hands-on activities, and the creation of innovative lesson plans, students will cultivate the expertise and confidence needed to inspire young learners and deepen their appreciation for the dynamic processes shaping our planet and beyond.
EDUC433	Inquiry-Based Science Education	3	This course delves into the principles and practices of inquiry-based science education, highlighting the importance of inquiry in fostering scientific literacy. It aims to equip future educators with the essential knowledge and skills to implement inquiry-based teaching strategies effectively in the classroom. Students will participate in hands-on activities, create lesson plans, and explore various inquiry-based approaches to science education. Key topics include enhancing scientific literacy, encouraging scientific discourse, organizing cooperative learning, and evaluating students' reasoning and problem-solving abilities using the SOLO Taxonomy.