



Yarmouk University

Faculty of
Educational Sciences

Master's in Science Curriculum and Instruction

Program Overview

The program strives to enhance teachers' theoretical and practical knowledge in science curriculum and instruction, aligning with current global trends. It also aims to equip teachers with the necessary theoretical and practical competencies to meet their educational and professional needs. It focuses on studying how to design and develop educational curricula in the fields of science, such as physics, chemistry, biology, and earth sciences. This specialization aims to improve the efficiency of the learning and teaching process in these subjects by developing integrated curricula that take into account modern research and effective educational practices. Teaching science curriculum involves using active and interactive methods such as scientific experiments, group discussions, and

applied lessons. It also includes the use of technology in education, such as computing and interactive educational programs, to increase students' understanding and interest in science. These methods aim to enhance critical thinking and problem-solving skills among students and motivate them to continue studying scientific subjects.

Program Vision

It aims to prepare specialist scholars in the field of science curricula, qualified for future scientific research, interacting with societal changes and developments in the educational process.

Program Mission

It aims to prepare a fertile educational environment full of highly qualified educational experiences, conforming to quality standards, in order to contribute to preparing a flexible, changing, advanced, and educated generation.

Program Objectives

1. preparing qualified researchers capable of participating positively in studying educational problems in the field of science curricula and teaching methods.
2. Enriching local and global knowledge through specialized educational studies in the field of science curricula and teaching method.
3. Developing educational practices in the field by benefiting from international experiences in developing school science curricula.
4. Providing graduates with educational work ethics and developing them.

Program Outcomes

Upon completion of the program, the student will have the following abilities:

- * Preparing graduates who are able to keep pace with the requirements of the times and meet the requirements of the labor market.
- * Providing students with comprehensive knowledge and a deep understanding of scientific concepts in fields such as physics, chemistry, and biology
- * Enabling graduates to learn how to evaluate evidence and data, draw conclusions, and think critically about solving scientific problems.

* Enabling graduates to learn how to use technology for research and interactive learning, which increases the effectiveness of the learning process.

* Engage in the fields of science, technology, and innovation, and provide them with the necessary skills to keep pace with scientific developments and changing business challenges.

Program Importance

This program allows students, after graduation, to become familiar with the knowledge and sciences of the educational process in a broader way than they were in the bachelor's degree. It also aids students in gaining a deeper understanding and mastery of the educational content, thanks to its close and direct connection to teaching strategies and its role in transitioning the student from a recipient to a researcher. In terms of knowledge, he exploits all of his abilities and potentials in order to keep pace with the development and change that the world is witnessing. The science curriculum program is essential in improving the learning and teaching process because it contributes to the development of innovative curricula that enhance students' understanding of scientific concepts in a deeper and more effective way, as well as critical and analytical thinking skills. The program also encourages the use of technology in education, which enhances students' interest in science and technology and prepares them to keep pace with the progress of science and the changing needs of the labour market.

Targeted Groups and Accepted Majors

1. The aim is to fulfil the demands set by the Higher Education Council.
2. According to departmental principles, the bachelor's degree must be in a subject that qualifies him for specialized study in the department he wishes to join.
3. Passing the language requirement required for admission to the program in accordance with the decisions of the Higher Education Council.
4. The relevant committees and councils have approved any other conditions.

Job Areas

The Master of Science Curriculum and Instruction program offers job opportunities to graduates in a variety of fields, including

1. Educational supervisor in schools in the Ministry of Education, private schools, and UNRWA schools.
2. An educational entrepreneur capable of launching educational initiatives and leading them to achieve their goals.
3. A faculty member in universities or an administrator in institutes and colleges.

Credit Hours and Tuition Fees

The Master's program requires students to complete 33 credit hours.

The cost per credit hour is:

- Jordanian students: 70 Jordanian Dinars.
- Non-Jordanian students: 225 US Dollars.

Study Plan Overview

A master's degree is awarded in the field of Science Curriculum and Instruction after completing the following requirements:

1. Fulfilment of the degree requirements.
2. Completion of any remedial courses determined by the Graduate Studies Committee in the department.
3. Completion of a minimum of 33 credit hours at the 600 level, with successful completion and a cumulative GPA of no less than 75%.

Contact Information

Department: Curriculum and Teaching Methods

Phone: +962-2-27211111, ext. 3740

Email: curricula.dept@yu.edu.jo