# University of Baghdad

# جامعة بغداد

## *Bachelor's Degree (B.Sc.)- Mathematics*

## *بكالوريوس علوم - الرياضيات*

# Table of Contents



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## 1. Overview

This catalogue is about the courses (modules) given by the program of Mathematics to gain the Bachelor of Science degree. The program delivers (48) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

**نظره عامة**

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج الرياضيات للحصول على درجة بكالوريوس العلوم. يقدم البرنامج (48) مادة دراسية، على سبيل المثال، مع (6000) إجمالي ساعات حمل الطالب و240 إجمالي وحدات أوروبية. يعتمد تقديم المواد الدراسية على عملية بولونيا.

## 2. Undergraduate Courses 2023-2024

**Module 1**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1101 | Calculus I | 8 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is dealing mainly with fundamental of calculus. It starts with introducing functions, limits and derivatives, differentiation rules, and then present some applications of differentiation. | | | |

**Module 2**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1102 | Foundation of Mathematics I | 8 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is to give the students an understanding of the foundations of mathematics includes sets, logic, number bases and the structure of the number system from naturals to the reals, solving multiple step problems, and teaching to one's peers. | | | |

**Module 3**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1103 | Finite Mathematics | 5 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 65 |
| **Description** | | | |
| This course presents several areas of mathematics including linear equations, functions, matrices, linear inequalities, linear programming, and game theory with applications. | | | |

**Module 4**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1104 | Physical Mathematics I | 4 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 40 |
| **Description** | | | |
| This course is concerned with the mathematical foundations of theoretical physics such as problems in statistical mechanics and quantum field theory a. | | | |

**Module 5**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB1101 | Computers I | 3 | 1 |
| **Class (hr./w)** | **Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 4 | 60 | 15 |
| **Description** | | | |
| This course will support the students with foundation for many significant programs related to Mathematics. Practical sessions will be used to undertake practical aspects of the module. | | | |

**Module 6**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB1102 | Arabic Language | 2 | 1 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| Students undertaking this course will learn some important basics of Arabic grammar in order to develop their ability to write correctly and properly. | | | |

**Module 7**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1215 | Calculus II | 8 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course deals mainly with integral calculus. We cover integrals, applications of integration, techniques of integration, and further applications of integration to the sciences and engineering. | | | |

**Module 8**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1216 | Foundations of Mathematics II | 8 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| The course provides a solid foundation in algebra, geometry and trigonometry, as well as differential and integral calculus. It covers partial fractions, logarithms, detailed trigonometric functions and a broad range of calculus techniques. | | | |

**Module 9**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1207 | Financial Mathematics | 6 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| The course focus on mathematical relations for many concepts of financial and currency markets in investment and other economic activities. | | | |

**Module 10**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT1218 | Physical Mathematics II | 4 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 40 |
| **Description** | | | |
| The course is concerned with the mathematical foundations of theoretical physics such as problems in statistical mechanics and quantum field theory. | | | |

**Module 11**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB1203 | Democracy and Human Rights | 2 | 2 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| The course devoted to knowledge democratic public sphere in Iraq and the world, with a focus on the protection of human rights and human dignity. | | | |

**Module 12**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB1204 | English Language I | 2 | 2 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| Students undertaking this course will develop their skills in reading, writing, and speaking English in an intensive study situation. They will read selected English scientific texts, learn skills for understanding these texts, and develop written and spoken responses to them. | | | |

**Module 13**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT2119 | Advanced Calculus | 8 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is designed to introduce students to advanced concepts of calculus include a review of linear approximations of vector valued functions of several variables, the derivative matrix, real valued functions, multiple integrals, line integrals, surface integrals | | | |

**Module 14**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT21110 | Linear Algebra I | 8 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course allows students to understand topics related to linear transformations, in particular eigenvalues and eigenvectors, coordinate transformations, matrix diagonalization and its applications. | | | |

**Module 15**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT21111 | Probability and Statistics I | 6 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course aims to provide students with a thorough grounding in statistical methodology, an awareness of the scope, achievements and possibilities of using statistics, and confidence in the use of appropriate statistical and computational tools, techniques and methodologies for solving and analyzing a range of practical problems. | | | |

**Module 16**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT21012 | Graph Theory | 4 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 40 |
| **Description** | | | |
| This course introduces the basic concepts of graph theory, focusing primarily on finite graphs. These include numerical invariants of graphs and methods for calculating them. | | | |

**Module 17**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT21013 | Fuzzy Mathematics | 2 | 1 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 20 |
| **Description** | | | |
| This course introduces students to the important areas of fuzzy set theory, fuzzy logic and another important related fundamental concepts. | | | |

**Module 18**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB2115 | English Language II | 2 | 1 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| Students undertaking this course will develop their skills in reading, writing, and speaking English in an intensive study situation. They will read selected English scientific texts, learn skills for understanding these texts, and develop written and spoken responses to them. | | | |

**Module 19**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT22114 | Linear Algebra II | 8 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course offers the same objects as those of Linear Algebra 1, introduced in the first semester with extension into new regions. | | | |

**Module 20**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT22115 | Solutions of Ordinary Differential Equations | 6 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course provides an introduction to first and higher order ordinary differential equations, methods of solution without integration are covered. Some applications of differential equations are considered, such as newton's law of cooling and motion in a gravitational field. | | | |

**Module 21**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT22116 | Probability and Statistic II | 6 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course offers the same objects as those of Probability and Statistic I, introduced in the first semester with extension for more variables. | | | |

**Module 22**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT22117 | Operation Researches | 4 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 3 | 2/1 | 45 | 55 |
| **Description** | | | |
| This course introduces the natural entry to the study of operational research, it discusses how to obtaining the most optimal solution for a problem with given constraints. | | | |

**Module 23**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT22018 | Number Theory | 3 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1 | 30 | 45 |
| **Description** | | | |
| This course provides an introduction to the important basic topics of number theory: prime numbers, factorization, congruence and representation of numbers. | | | |

**Module 24**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB2216 | Computers II | 3 | 2 |
| **Class (hr./w)** | **Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 4 | 60 | 15 |
| **Description** | | | |
| This course will support the students with foundation for many significant programs related to Mathematics. Practical sessions will be used to undertake practical aspects of the module. | | | |

**Module 25**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT31119 | Mathematical Analysis I | 8 | 1 |
| **Class (hr./w)** | **Lec. /Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course gives a rigorous introduction to some of the principles of mathematical analysis that are essential in most aspects of modern mathematics. Hence, students will be able to understand and write formal mathematical sentences. | | | |

**Module 26**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT31120 | Numerical Analysis I | 8 | 1 |
| **Class (hr./w)** | **Lec. /Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 2 | 60 | 140 |
| **Description** | | | |
| This course will introduce numerical approximation techniques for solving standard problems in Mathematics, and explain when and why they work. Additionally, it provides opportunities for implementing numerical techniques on a computer. | | | |

**Module 27**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT31121 | Group Theory | 5 | 1 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 65 |
| **Description** | | | |
| This course will study the basic structure of groups, and some types of finite subgroups. | | | |

**Module 28**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT31122 | Mathematical Statistic I | 4 | 1 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 40 |
| **Description** | | | |
| This course introduces students to the basic statistical concepts with their applications, to ensure they could understand the next related course. | | | |

**Module 29**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT31123 | Optimization | 3 | 1 |
| **Class (hr./w)** | **Lec. /Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1 | 30 | 45 |
| **Description** | | | |
| This course provides an introduction to the theory and practice of optimization techniques. It covers linear programming as well as nonlinear programming. | | | |

**Module 30**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB3107 | Research Methodology | 2 | 1 |
| **Class (hr./w)** | **Lec. /Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 20 |
| **Description** | | | |
| This course prepares the student for empirical research using advanced methods and skills. | | | |

**Module 31**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT32124 | Mathematical Analysis II | 8 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is a continuation of MAT31119 Mathematical Analysis I. The objective of this module is to develop rigorously all the basic results for multi variables. | | | |

**Module 32**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT32125 | Numerical Analysis II | 8 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 2 | 60 | 140 |
| **Description** | | | |
| This course is a continuation of MAT31120 numerical analysis I. It introduces and analyzes important numerical methods for solving linear and nonlinear systems, two-point boundary value problems in such fields as quantitative finance and physics. | | | |

**Module 33**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT32126 | Ring Theory | 5 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 65 |
| **Description** | | | |
| This course aims to realize the importance of rings aa central objects in algebra and to study some applications. | | | |

**Module 34**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT32127 | Mathematical Statistic II | 4 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 40 |
| **Description** | | | |
| This course is a continuation of MAT31122 mathematical statistic I I. It provides the student with the basic concepts of the statistic for more than one parameter. | | | |

**Module 35**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT32128 | Arithmetic Groups | 3 | 2 |
| **Class (hr./w)** | **Lec. / Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 45 |
| **Description** | | | |
| This course aims to survey the most significant results in the theory of arithmetic groups obtained primarily, since it deals with groups of matrices whose entries are integers. | | | |

**Module 36**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB3218 | English Language III | 2 | 2 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| Students undertaking this course will develop their skills in reading, writing, and speaking English in an intensive study situation. They will read selected English scientific texts, learn skills for understanding these texts, and develop written and spoken responses to them. | | | |

**Module 37**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41129 | Complex Analysis I | 8 | 1 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is concerned with complex numbers and functions, their theory follows a quite different development from that of real functions, is remarkable in its directness and elegance, and leads to many useful applications. | | | |

**Module 38**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41130 | Theory of Differential Equations | 7 | 1 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 115 |
| **Description** | | | |
| This course provides the basic concepts, and methods of solving various types of differential equations, indispensable knowledge of the underlying theory and some related applications. | | | |

**Module 39**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41131 | General Topology I | 6 | 1 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course deals with the basic set-theoretic definitions and constructions used in topology. It is the foundation of most other branches of topology, including differential topology, geometric topology, and algebraic topology. | | | |

**Module 40**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41132 | Cryptography | 4 | 1 |
| **Class (hr./w)** | **Lec. / Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 2/ 2 | 60 | 40 |
| **Description** | | | |
| This course, will introduce students to the basic mathematical principles and functions that form the foundation for cryptographic and cryptanalysis methods. These principles and functions will be helpful in understanding symmetric and asymmetric many cryptographic methods. | | | |

**Module 41**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41033 | Project I | 3 | 1 |
| **Class (hr./w)** | **Lec. / Seminar** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 45 |
| **Description** | | | |
| This module an inquiry or investigation conducted by undergraduate students that makes an intellectual or creative contribution to their fields. | | | |

**Module 42**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| UoB4119 | English Language IV | 2 | 2 |
| **Class (hr./w)** | **Lecture** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 2 | 30 | 20 |
| **Description** | | | |
| Students undertaking this course will develop their skills in reading, writing, and speaking English in an intensive study situation. They will read selected English scientific texts, learn skills for understanding these texts, and develop written and spoken responses to them. | | | |

**Module 43**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT42134 | Complex Analysis II | 8 | 2 |
| **Class (hr./w)** | **Lect. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 140 |
| **Description** | | | |
| This course is a continuation of MAT41129 complex analysis I I. It provides the student with essential properties of analytic functions, several types of integrals for complex functions, series and their applications, residue theorem with applications and another consequent concepts. | | | |

**Module 44**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT42135 | General Topology II | 6 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course is a continuation of MAT41131 general topology I. It provides the student with advanced subject related more specific topology properties. | | | |

**Module 45**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT42136 | Mathematical Modelling and Simulation | 6 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 3/1 | 60 | 90 |
| **Description** | | | |
| This course aims to gain the knowledge about system and its behavior so that a person can transform the physical behavior of a system into a mathematical model that can in turn transform into a efficient algorithm for simulation purpose. | | | |

**Module 46**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT42137 | Data Analysis | 4 | 2 |
| **Class (hr./w)** | **Lec. / Lab.** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 4 | 2/2 | 60 | 40 |
| **Description** | | | |
| This module is designed to provide students with an introduction to the statistical principles used in data analytics and their application using a suitable statistical package. | | | |

**Module 47**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT42138 | Solutions of Partial Differential Equations | 3 | 2 |
| **Class (hr./w)** | **Lec. / Tutorial** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 45 |
| **Description** | | | |
| This course aims to give an introduction to the basic properties of PDEs and to the basic analytical techniques to solve them. | | | |

**Module 48**

| Code | Course/Module Title | ECTS | Semester |
|---|---|---|---|
| MAT41133 | Project II | 3 | 1 |
| **Class (hr./w)** | **Lec. / Seminar** | **SSWL (hr./sem)** | **USWL (hr./sem)** |
| 2 | 1/1 | 30 | 45 |
| **Description** | | | |
| This module an inquiry or investigation conducted by undergraduate students that makes an intellectual or creative contribution to their fields. | | | |

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