

University of Mosul



First Cycle – Bachelor's degree (B.Sc.) – Forensic Evidence



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1. Mission & Vision Statement

Vision Statement

The Forensic Evidence academic staff of the Natural and Behavioral Sciences Division at (Mosul) University believe that students come to understand the discipline of Forensic Evidence through a combination of course work, laboratory experiences, research, and fieldwork. The combination of instructional methods leads students to a balanced understanding of the scientific methods used by the staff to make observations, develop insights and create solutions about the criminals . Small class sizes within the Forensic Evidence program foster a close working relationship between academic staff and students in an informal and nurturing atmosphere.

Mission Statement

The Forensic Evidence academic staff pursues a multifaceted charge at (Mosul) University. The Program seeks to provide all Forensic Evidence students with fundamental knowledge of Forensic Evidence , as well as a deeper understanding of a selected focus area within the Forensic Evidence sciences. The curriculum and advising have been designed to prepare graduates for their professional future, whether they choose to work as field specialist in the security institutions , or to pursue advanced degrees in the sciences or even in health sciences. The Forensic Evidence program also provides the necessary fundamental knowledge of the crime investigation, fingerprinting collection, handling and analysis of evidence.

2. Program Specification

| | | | |
|-----------------|-----------------------|-----------------------|-----------|
| Programme code: | BSc-FOR | ECTS | 240 |
| Duration: | 4 levels, 8 Semesters | Method of Attendance: | Full Time |

Forensic Evidence is a wonderfully wide-ranging subject and is equipped to deliver. The subject aims to introduce the student to the meaning of crime, its elements and condition. Also, introducing the students to the development of criminal policy, crime prevention as well as shedding light on the theories of precautionary policy, in addition of highlighting the role of the family, school, media and security personnel in the achieving preventive policy.

Level 1 exposes students to the fundamentals of Forensic Evidence , suitable for progression to all programs within the Forensic Evidence program group. Program-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4. The University Forensic evidence graduate is therefore trained to appreciate how research informs teaching, according to the University and School Mission statements.

At Levels 2, 3 and 4 students are free to choose more than half of their module credits with the proviso a range of modules are selected that reflect familiarity in dealing with crime to ensure the breadth of knowledge expected of a graduate with a Forensic Evidence degree.

The research ethos is developed and fostered from the start via practicals, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and tutorials. There is a compulsory field course in Level 1, which students must pass in order to progress into Level 2, and optional field courses in Levels 2, 3 and 4. At Level 4 all students carry out an independent research project, which may be a xx credit library or data analysis project, or a xx credit field or laboratory based project.

Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

International years and important placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

3. Program Objectives

1. To provide a comprehensive education in Forensic Evidence that stresses scientific reasoning and problem solving across the spectrum of disciplines within Forensic Evidence.
2. To prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of forensic evidence.
3. To provide extensive hands-on training in electronic technology, statistical analysis, laboratory skills, and field techniques.
4. To provide thorough training in written and oral communication of scientific information.
5. To enrich students with opportunities for alternative education in the area of Forensic Evidence through undergraduate research, internships, and study-abroad.

4. Student Learning Outcomes

Forensic Evidence is the study of the organization and operation of life at the level of knowledge in dealing with crime and preventing its occurrence. Graduates obtain information on the technical and social aspects of Forensic Evidence and utilize basic knowledge toward realizing broader concepts. The Department offers a Bachelor of Science in Forensic Evidence. Additionally, the Department offers courses to a large number of students from other departments and supports pre-professional programs. The Forensic Evidence curriculum and experiences are designed to graduate students will be able to work in security institutions with good standing.

Outcome 1

Identification of Complex Relationships

Graduates will be able to illustrate the forensic concepts in general and how to deal with crime.

Outcome 2

Oral and Written Communication

Graduates will be able to formally communicate the results of forensic investigations using both oral and written communication skills.

Outcome 3

Laboratory and Field Studies

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 4

Scientific Knowledge

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 5

Data Analyses

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 6

Critical Thinking

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

(Name) University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

| Group | Grade | Marks (%) | Definition |
|-------------------------------------|------------------|-----------|---------------------------------------|
| Success Group (50 - 100) | A – Excellent | 90 - 100 | Outstanding Performance |
| | B - Very Good | 80 - 89 | Above average with some errors |
| | C – Good | 70 - 79 | Sound work with notable errors |
| | D - Satisfactory | 60 - 69 | Fair but with major shortcomings |
| | E – Sufficient | 50 - 59 | Work meets minimum criteria |
| Fail Group (0 – 49) | FX – Fail | (45-49) | More work required but credit awarded |
| | F – Fail | (0-44) | Considerable amount of work required |
| | | | |
| Note: | | | |

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots] / 240$$

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|---------------------------|------|-------|------|------|-------------|
| FOR-1101 | Forensic Sciences | 93 | 107 | 8.00 | C | |
| FOR-1102 | General Biology 1 | 108 | 93 | 8.00 | S | |
| FOR-1103 | General Chemistry | 108 | 92 | 8.00 | S | |
| UOM104 | democracy and Human Right | 33 | 17 | 2.00 | B | |
| Sci105 | Mathematics | 33 | 17 | 2.00 | B | |
| UOM101 | Arabic Language | 33 | 17 | 2.00 | B | |

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|---|------|-------|------|------|-------------|
| FOR-1204 | Fuels and fire Acceleration | 93 | 82 | 7.00 | C | |
| FOR-1205 | Legal regulation of the criminal expert | 93 | 57 | 6.00 | C | |
| FOR-1206 | Organic chemistry | 78 | 72 | 6.00 | B | |
| FOR-1207 | General Biology 2 | 78 | 72 | 6.00 | S | |
| UOM102 | English Language | 33 | 17 | 2.00 | B | |
| UOM103 | Computer | 63 | 12 | 3.00 | B | |

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--------------------------------------|------|-------|------|------|-------------|
| FOR-2308 | Biochemistry | 93 | 57 | 6.00 | C | |
| FOR-2309 | Genetics | 93 | 57 | 6.00 | C | |
| FOR-23010 | Anatomy and physiology | 78 | 72 | 6.00 | C | |
| FOR-23011 | Secretions and vital fluids | 78 | 72 | 6.00 | C | |
| FOR-23012 | Statistics and forensic applications | 63 | 37 | 4.00 | C | |
| UMO201 | Crimes of the defunct Baath Party | 33 | 17 | 2.00 | B | |

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--|------|-------|------|------|-------------|
| FOR-24013 | Molecular Biology | 78 | 47 | 5.00 | C | |
| FOR-24014 | Analytical Chemistry | 78 | 47 | 5.00 | S | |
| FOR-24015 | Laboratory equipment and techniques | 78 | 47 | 5.00 | S | |
| FOR-24016 | Forensic computer applications | 78 | 47 | 5.00 | C | |
| FOR-24017 | Investigation and criminal investigation | 63 | 62 | 5.00 | C | |
| FOR-24018 | Illustrated criminal report | 63 | 62 | 5.00 | C | |

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--|------|-------|------|------|-------------|
| FOR-35019 | Molecular application | 78 | 72 | 6.00 | C | |
| FOR-35020 | Analytical Chemistry | 78 | 72 | 6.00 | C | |
| FOR-35021 | Chemical and microscopic detection methods | 78 | 72 | 6.00 | C | |
| FOR-35022 | Forensic chemistry | 78 | 47 | 5.00 | C | |
| FOR-35023 | Introduction to explosive materials and booby | 63 | 62 | 5.00 | C | |
| FOR-35024 | English language | 33 | 17 | 2.00 | S | |

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--|------|-------|------|------|-------------|
| FOR-36025 | Introduction to toxins and drugs | 78 | 47 | 5.00 | C | |
| FOR-36026 | The effects of criminal evidence | 78 | 47 | 5.00 | C | |
| FOR-36027 | Criminal insects | 78 | 47 | 5.00 | C | |
| FOR-36028 | Genetic statistical analysis and databases | 63 | 62 | 5.00 | C | |
| FOR-36029 | Inks and dyes and their warnings | 78 | 47 | 5.00 | C | |
| FOR-36030 | tissue , hair and fibers science | 63 | 62 | 5.00 | C | |

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|---|------|-------|------|------|-------------|
| FOR-47031 | environmental toxins and distrial pollution | 78 | 47 | 5.00 | C | |
| FOR-47032 | identify definition tools | 78 | 47 | 5.00 | C | |
| FOR-47033 | Bioinformatics | 78 | 47 | 5.00 | C | |
| FOR-47034 | Basics of fingerprint analysis and fonts | 78 | 47 | 5.00 | C | |
| FOR-47035 | Job ethics | 63 | 62 | 5.00 | S | |
| FOR-47036 | Crime science | 63 | 62 | 5.00 | C | |

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

| Code | Module | SSWL | USSWL | ECTS | Type | Pre-request |
|-----------|--|------|-------|------|------|-------------|
| FOR-48037 | Principles of Medical jurisprudence | 78 | 72 | 6.00 | C | |
| FOR-48038 | Identity Definition Tool and Fingerprints | 93 | 57 | 6.00 | C | |
| FOR-48039 | Principles of Islamic Criminal Legislation | 63 | 87 | 6.00 | C | |
| FOR-48040 | Cybercrime | 48 | 77 | 5.00 | C | |
| FOR-48041 | Preventive policy and crime prevention | 48 | 77 | 5.00 | C | |
| FOR-48042 | Graduation project | 78 | 62 | 2.00 | C | |

8. Contact

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