

EURO AMERICAN INSTITUTE

BACHELOR OF SCIENCE IN

COMPUTER SCIENCE





About MALTA

Malta is a member state of the European Union, and its higher education system operates within the framework of the Bologna Process and the European Higher Education Area (EHEA), ensuring alignment with European academic standards and broad recognition of qualifications across Europe. Higher education in Malta is structured in accordance with the European Qualifications Framework (EQF), providing academic transparency, comparability of degrees, and quality assurance. With English as a primary language of instruction and a cost-effective study environment compared to other European countries, Malta has become an attractive destination for students seeking a globally recognised European qualification.

The strength of Malta's higher education system is further reflected in the presence of Maltese universities in respected global rankings such as the QS World University Rankings and CWUR. One of Malta's public universities has been ranked within the top 7.6% of universities worldwide, placing 1,622nd out of more than 21,000 institutions globally, reinforcing Malta's academic standing on the international stage.



About **EUROAMERICAN INSTITUTE (EAI)**

The EuroAmerican Institute (EAI) is a licensed higher education institution operating within a structured European academic framework. The institute is committed to delivering internationally aligned programmes designed to develop future leaders capable of succeeding in a dynamic global environment. EAI offers undergraduate, postgraduate, and doctoral degrees through flexible learning models that combine academic excellence with practical application.





ACCREDITATION & EUROPEAN FRAMEWORK

EAI is officially licensed and recognised in Malta as a Higher Education Institution by the:

MALTA FURTHER & HIGHER EDUCATION AUTHORITY (MFHEA)

1. Licensed as a Higher Education Institution

2. Programmes classified under the Malta Qualifications Framework (MQF)

3. Aligned with the European Qualifications Framework (EQF)

4. Authorised to award:

- . Bachelor's Degrees (Level 6)
- . Master's Degrees (Level 7)
- . Doctoral Degrees (Level 8)

5. Qualifications aligned with European quality assurance standards

6. The institute operates within the European Higher Education system under:

- . The Bologna Process
- . The European Higher Education Area (EHEA)

Ensuring academic transparency, mobility and comparability of qualifications across Europe.



MALTA FURTHER & HIGHER EDUCATION AUTHORITY (MFHEA)

The EuroAmerican Institute (EAI) is an exemplary higher education institution that offers reputable European qualifications and is approved and recognised by the government of Malta. The Malta Further & Higher Education Authority (MFHEA) has accredited and licenced the EuroAmerican Institute (EAI) in Malta with licence Number: 2024-032 as a "Higher Education Institution". This accreditation allows the EAI to offer various programmes at Bachelor's, Master's and Doctorate Levels (levels 6, 7 and 8) of both the European Qualifications Framework for Lifelong Learning (EQF) and the Maltese Qualifications Framework (MQF).

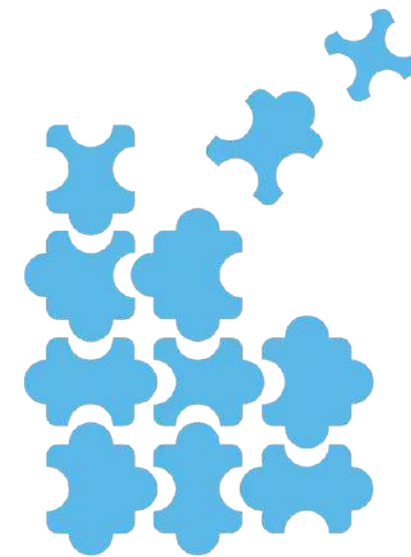
MFHEA is the Malta National Authority responsible for setting and updating the Malta Qualifications Framework, setting standards for the different qualification levels, accrediting courses at different MQF levels, and ensuring that the national quality assurance framework is upheld by all further and higher education providers in Malta. The Malta Further and Higher Education Authority (MFHEA), which is partly funded by the European Commission and the European Union, enforces ESG 2015 to enhance the quality of further and higher education.



EUROPEAN AND WORLDWIDE ACCREDITATIONS

The EuroAmerican Institute (EAI) is headquartered in Malta which has been a member of the European Union since 2004 and the European Higher Education Area since 2010. Under Higher Education Institute Licence No. 2024 – 032, granted by the Malta Further & Higher Education Authority MFHEA, EAI is authorised to offer select doctoral programmes at Levels 8 of both the Maltese Qualifications Framework (MQF) and the European Qualifications Framework (EQF). The MFHEA licence is recognised within the European Qualifications Framework (EQF) due to its compatibility with the European Credit Transfer System (ECTS). It allows for portability of higher education credits and degrees within the European Union. Malta is also a member of the Bologna Process, which ensures that EAI degrees are fully recognised qualifications that are recognised throughout Europe and beyond under various treaty obligations, including the Lisbon Recognition Convention.

The Convention on the Recognition of Qualifications Concerning Higher Education in the European Region (ETS No. 165), also known as the Lisbon Recognition Convention (LRC), ensures the recognition of the EAI degrees and awards by approximately 57 countries that are signatories to the convention and are under treaty obligation. A full list of signatory countries can be found on the Council of Europe website. Similarly, the Global Convention on the Recognition of Qualifications Concerning Higher Education, adopted by The General Conference of the United Nations Educational, Scientific and Cultural Organisation (UNESCO) at its 40th session in Paris (12-27 November 2019), further strengthens and promotes international mobility by ensuring the recognition of the qualifications approved by National Accreditation Authorities of member states at a global level. Details of the convention are available on the UNESCO website.



EUROPEAN
Higher Education Area

EUROPEAN HIGHER EDUCATION AREA (EHEA)

The European Higher Education Area (EHEA) is a unique international collaboration in higher education, comprising 49 member countries from Europe and beyond. Higher education institutions falling under EHEA use the European Credit Transfer System (ECTS), which provides a shared framework for accrediting courses and degrees.

These 49 countries implement higher education reforms based on common key values, such as freedom of expression, institutional autonomy, independent student unions, academic freedom, and free movement of students and staff. Through this process, countries, institutions, and stakeholders across the European area continuously adapt their higher education systems, enhancing compatibility and strengthening their quality assurance mechanisms.



BOLOGNA PROCESS

The Bologna Process refers to the agreements that harmonise the accreditation standards across Europe. This process led to the creation of both European Higher Education Area (EHEA) and the European Credit Transfer and Accumulation System (ECTS).

The EHEA focuses on the implementation of three key commitments through peer support:

A three-cycle system aligns with the overarching framework of EHEA qualifications, with first and second cycle degrees scaled by ECTS.

Compliance with the Lisbon Recognition Convention.

Quality assurance in accordance with the Standards and Guidelines for Quality Assurance in the European Higher Education Area.



ENIC-NARIC NETWORKS

The ENIC-NARIC Networks are the result of an ongoing collaboration between the national information centres on the academic recognition of qualifications across 55 countries, which operate under the principles of the Lisbon Recognition Convention.

A national information centre (ENIC, or ENIC-NARIC) is an entity established by each party to the Convention on the Recognition of Qualifications Concerning Higher Education in the European Region (commonly known as the Lisbon Recognition Convention-LRC) by its Article IX.2(1). The European Network of National Information Centres (ENIC Network) was established in 1994, in close collaboration with UNESCO and the Council of Europe as Co-Secretariats. It complies with Articles X.1(b) and X.3 of the LRC.

The National Academic Recognition Information Centres (NARIC) Network was established in 1984, with the European Commission as its secretariat. The NARIC Network has a similar mandate to the ENIC Network but within the context of the European Union. An EAI qualification holder can seek recognition worldwide through the ENIC-NARIC network, owing to its recognition by the MFHEA.

An EAI degree holder can seek recognition worldwide from the ENIC-NARIC network owing to the recognition by the MFHEA.



WORLD EDUCATION SERVICES

At Euro American Institute, Malta, our programmes are officially licensed and accredited by the Malta Further and Higher Education Authority (MFHEA) — the national regulatory body responsible for maintaining quality and recognition standards within the European Higher Education Area (EHEA).

Degrees awarded under MFHEA accreditation are globally respected and consistently receive positive evaluation outcomes from the World Education Services (WES), a leading international credential assessment authority. This global recognition ensures that our graduates can confidently pursue further studies, professional licensure, and career opportunities worldwide.

In addition, Euro American Institute, Malta, is a registered WES Digital Partner. Through this partnership, we can transmit verified student academic records and credentials directly to WES electronically, ensuring secure delivery, authenticity, and significant time savings for students. This digital integration eliminates postal delays and enhances transparency in the credential verification process—a hallmark of our commitment to international academic mobility and trust.



EUROPEAN COMMISSION

The European Commission is the executive branch of the European Union. It is responsible for proposing legislation, enforcing EU laws and directing the Union's administrative operations, including education initiatives and policy-making. It oversees the ECTS system. All EHEA countries have adopted the European Standards and Guidelines (ESG 2015).

Legalisation

The EuroAmerican Institute (EAI), established in Malta, is a higher education institute offering accredited degrees under the aegis of Malta's laws, regulations, and authorities. The diploma and transcript of the programme of study from the EAI will be authenticated and registered by a Maltese Public notary. If required, the same shall be Apostilled. An apostille is a seal applied to a certified document to signify its legal authenticity for international use under the terms of the 1961 Hague Convention fulfilling the requirement of authenticity and Legalisation for Foreign Public Documents. For countries not part of the 1961 Hague Convention, the documents may be authenticated by the Embassy or Consulate of the particular Country in Malta (if applicable).



INTERNATIONAL RECOGNITION

Recognition of European qualifications is supported by the Lisbon Recognition Convention, the primary legal framework governing the recognition of higher education qualifications within the European region.

The Convention is jointly administered by:

- . The Council of Europe
- . UNESCO

Through the ENIC-NARIC Networks, which facilitate academic recognition and provide official information on qualifications across participating countries.



WHY CHOOSE **THIS PROGRAMME**



OFFICIAL EUROPEAN ACCREDITATION

The programme is delivered within the European Higher Education framework and is fully aligned with the European Qualifications Framework (EQF) and the Malta Qualifications Framework (MQF). It operates under the oversight of the Malta Further & Higher Education Authority (MFHEA) and follows the Bologna Process and the European Higher Education Area (EHEA), ensuring academic quality, transparency, and international recognition across Europe and beyond.

FLEXIBLE ONLINE LEARNING MODEL

The programme is delivered fully online through live interactive sessions within a structured virtual learning environment, enabling real-time engagement with faculty and peers.



STRUCTURED ACADEMIC PATHWAY – 180 ECTS CREDITS

The programme consists of 180 European Credit Transfer System (ECTS) credits and follows a progressive qualification structure. In the event of study interruption, students may be awarded an exit qualification based on completed credits:

- After 30 ECTS: Undergraduate Certificate
- After 60 ECTS: Diploma
- After 90 ECTS: Higher Diploma
- Upon completion of 180 ECTS: Full Bachelor's Degree
-

This structured pathway ensures that academic achievement is formally recognised at each stage, allowing learners to receive a certified qualification reflecting their completed level of study.

INDUSTRY-ALIGNED & FUTURE-FOCUSED CURRICULUM

The curriculum integrates foundational computing principles with emerging technologies such as Artificial Intelligence, Machine Learning, Cybersecurity, Internet of Things (IoT), Blockchain, and Quantum Computing. The programme is designed to equip students with future-ready technical competencies aligned with evolving global industry standards.



PRACTICAL & PROJECT-BASED LEARNING

The programme emphasises applied learning through coding labs, simulations, system design projects, and a comprehensive Capstone Project. Students develop real-world problem-solving capabilities, preparing them to design, implement, and manage secure and scalable computing solutions.

EXPERT FACULTY & TECHNOLOGY PRACTITIONERS

Students learn from academic leaders and active industry professionals who bridge theoretical foundations with real-world technological application, ensuring relevance and professional depth.

GLOBAL LEARNING ENVIRONMENT & INTERNATIONAL NETWORK

The programme fosters a multicultural academic environment, enabling students to collaborate with peers from diverse backgrounds and gain exposure to global technology trends and cross-border innovation practices.



PROGRAMME

OVERVIEW

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

PROGRAMME DURATION:



YEARS



SEMESTERS

TOTAL CREDITS (ECTS):



ECTS



PROGRAMME

OVERVIEW

TOTAL LEARNING HOURS:

2250 HOURS

EXIT AWARDS:

Undergraduate Certificate (**30** ECTS)

Undergraduate Diploma (**60** ECTS)

MODE OF STUDY:

Online Programme
(Delivered through a structured and flexible learning model designed for working professionals)

LANGUAGE OF INSTRUCTION:

ENGLISH



LEARNING

OUTCOMES

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

UPON SUCCESSFUL COMPLETION OF THE PROGRAMME, GRADUATES WILL BE ABLE TO:

KNOWLEDGE

- . Demonstrate comprehensive knowledge of core computing principles, including programming, algorithms, data structures, databases, networks, and software engineering.
- . Critically evaluate emerging technologies such as Artificial Intelligence, Machine Learning, Cybersecurity, Blockchain, and Quantum Computing.
- . Understand legal, ethical, and professional responsibilities within the field of computing.

SKILLS

- . Design, develop, and evaluate user-centred software systems using modern programming languages and development frameworks.
- . Analyse computational problems and implement efficient algorithmic solutions.
- . Apply quantitative and logical reasoning to solve complex technical challenges.
- . Communicate technical concepts effectively to both technical and non-technical audiences.

COMPETENCE

- . Manage computing projects using contemporary methodologies such as Agile and Scrum.
- . Integrate security, scalability, and sustainability considerations into system design.
- . Demonstrate leadership, teamwork, and adaptability in multidisciplinary environments.
- . Conduct applied research to evaluate and implement innovative technological solutions in real-world contexts.



MODULE/UNIT TITLE	COMPULSORY (C) OR ELECTIVE (E)	MQF LEVEL OF EACH MODULE	ECTS
FUNDAMENTALS OF IT AND COMPUTERS	COMPULSORY (C)	MQF 5	6
COMPUTER AND NETWORK TECHNOLOGIES	COMPULSORY (C)	MQF 5	6
DATABASE MANAGEMENT SYSTEM	COMPULSORY (C)	MQF 5	6
WEB AND MOBILE APPLICATION	COMPULSORY (C)	MQF 5	6
PRINCIPLES OF COMPUTER PROGRAMMING	COMPULSORY (C)	MQF 5	6
SOFTWARE ENGINEERING	COMPULSORY (C)	MQF 5	6
OOPS WITH JAVA	COMPULSORY (C)	MQF 5	6
MANAGEMENT INFORMATION SYSTEMS	COMPULSORY (C)	MQF 5	6
NETWORK INFORMATION SYSTEMS	COMPULSORY (C)	MQF 5	6
CYBER SECURITY	COMPULSORY (C)	MQF 5	6



MODULE/UNIT TITLE	COMPULSORY (C) OR ELECTIVE (E)	MQF LEVEL OF EACH MODULE	ECTS
PYTHON PRIMER: AN INTRODUCTION TO PROGRAMMING WITH PYTHON	COMPULSORY (C)	MQF 5	6
MATHEMATICS FOR COMPUTING	COMPULSORY (C)	MQF 5	6
UNLOCKING BIG DATA: TECHNOLOGIES AND STRATEGIES	COMPULSORY (C)	MQF 5	6
INTRODUCTION TO CRYPTOGRAPHY	COMPULSORY (C)	MQF 5	6
EXPLORING THE NEXUS: DATA SCIENCE AND ARTIFICIAL INTELLIGENCE	COMPULSORY (C)	MQF 5	6
EXPLORING DATA PROTECTION AND IT SECURITY MEASURES	COMPULSORY (C)	MQF 5	6
UNDERSTANDING INFORMATION SECURITY STANDARDS	COMPULSORY (C)	MQF 5	6
EXPLORING THE INTERNET OF THINGS (IOT)	COMPULSORY (C)	MQF 5	6
MACHINE LEARNING: SUPERVISED LEARNING AND UNSUPERVISED LEARNING	COMPULSORY (C)	MQF 5	6
DATA STRUCTURE & ALGORITHM	COMPULSORY (C)	MQF 5	6



MODULE/UNIT TITLE	COMPULSORY (C) OR ELECTIVE (E)	MQF LEVEL OF EACH MODULE	ECTS
EXPLORING THE FUNDAMENTALS OF WEB SECURITY	COMPULSORY (C)	MQF 5	6
MATHEMATICAL MODELLING	COMPULSORY (C)	MQF 5	6
INTRODUCTION TO QUANTUM COMPUTING	COMPULSORY (C)	MQF 5	6
SYSTEM ANALYSIS AND DESIGNING	COMPULSORY (C)	MQF 5	6
OVERVIEW OF BLOCK CHAIN AND ITS SECURITY	COMPULSORY (C)	MQF 5	6
IT PROJECT MANAGEMENT	COMPULSORY (C)	MQF 5	6
E-COMMERCE	COMPULSORY (C)	MQF 5	6
KNOWLEDGE MANAGEMENT	COMPULSORY (C)	MQF 5	6
CAPSTONE PROJECT	COMPULSORY (C)	MQF 5	6



CAREER

OPPORTUNITIES – BSCS

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

Graduates of the Bachelor of Science in Computer Science programme are equipped with the technical expertise, analytical capabilities, and strategic problem-solving skills required to pursue diverse and high-demand roles across the global technology sector. Potential career pathways include:

- . SOFTWARE DEVELOPER / SOFTWARE ENGINEER
- . FULL-STACK DEVELOPER
- . DATA ANALYST
- . DATA SCIENTIST
- . MACHINE LEARNING ENGINEER
- . ARTIFICIAL INTELLIGENCE SPECIALIST
- . CYBERSECURITY ANALYST
- . NETWORK SECURITY SPECIALIST
- . SYSTEMS ANALYST
- . IT PROJECT MANAGER
- . CLOUD COMPUTING SPECIALIST
- . BLOCKCHAIN DEVELOPER
- . IOT SOLUTIONS DEVELOPER
- . DATABASE ADMINISTRATOR
- . DEVOPS ENGINEER
- . TECHNOLOGY CONSULTANT



GRADUATES MAY ALSO PURSUE:

- . ENTREPRENEURIAL VENTURES IN TECHNOLOGY AND DIGITAL INNOVATION
- . LEADERSHIP ROLES WITHIN TECHNOLOGY-DRIVEN ORGANISATIONS
- . POSTGRADUATE STUDIES (MASTER'S OR SPECIALISED CERTIFICATIONS IN ADVANCED COMPUTING FIELDS)

Graduates may also pursue doctoral studies (DBA or PhD) or other advanced executive education programmes to further enhance their leadership and academic credentials.

Join an academic community committed to excellence, operating under recognised European standards, and dedicated to equipping you with the knowledge and capabilities to lead with confidence in a global environment. Your next step begins now.



EURO AMERICAN INSTITUTE

THANK YOU

