



EuroAmerican  
Institute

# BACHELOR OF SCIENCE IN COMPUTER SCIENCE

*Think Big, Lead Boldly, Succeed Globally!*



# About EAI

The EuroAmerican Institute is committed to holistic growth and transformation, enabling students to explore new horizons and redefine what is possible. Our distinguished faculty nurtures students in an unparalleled learning environment, offering a broad array of programmes across graduate, master's, and doctoral levels. Whether you are a seasoned business professional seeking career advancement or a budding entrepreneur ready to carve out your niche, our comprehensive offerings cater to your needs.

EAI is committed to the following values and objectives in support of its mission.

- **Advocating Intellectual Inquiry**
- **Advocacy of Inquiry and Innovation**
- **Offering Tailored Student Support**
- **Nurturing Synergistic Learning Communities**
- **Embracing Growth in Diversity**
- **Developing a Synthesis of Global Educational Excellence**

## Vision

EAI aspires to be a premier global leader in career-focused education, offering flexible and accessible learning Anytime-Anywhere through our online, hybrid, and offline platforms. We are dedicated to delivering affordable, cutting-edge, and accredited higher education, aligned with the latest industry trends and technological advancements. Our vision is to cultivate a dynamic learning environment that upholds the highest ethical and professional standards, equipping students to excel in an ever-evolving global workforce.

## Mission

EAI mission is to provide affordable, high-quality education through online, hybrid, and offline modalities. As a diverse and inclusive higher education institution, we welcome students from all backgrounds and beliefs, offering a transformative educational experience. Our supportive academic and professional community empowers students to discover their unique talents and realise their personal and professional aspirations in a global context.



# EAI Accreditation and European Framework



Malta Further & Higher Education Authority (MFHEA)



European Higher Education Area (EHEA)



Bologna Process



ENIC-NARIC Networks



European Commission



European and Worldwide Accreditations



World Education Services



# About the Programme

EAI has designed and developed the Bachelor of Science in Computer Science to empower aspiring technologists with the knowledge and skills needed to excel in today's digital and innovation-driven world. Our programme delivers a comprehensive foundation in computing while equipping students with multidisciplinary and problem-solving capabilities essential for success in the global tech landscape.

The Bachelor of Science in Computer Science at EAI offers a unique opportunity to engage with an immersive, interactive, and future-focused curriculum that blends theoretical learning with real-world applications. From programming and algorithms to artificial intelligence and cybersecurity, students explore a wide range of computing domains, preparing them for diverse roles across industries.

Developing a strong technical skill set alongside critical thinking, ethical reasoning, and collaborative practise lies at the heart of the programme. These competencies are essential for students to succeed and lead in the evolving field of computer science.

## Programme Snapshot



Guidance from Academic Leaders and Tech Experts



Balanced Theory and Technical Application



Immersive, Project-Led Learning



Globally Connected Learning Environment



International Networking and Industry Engagement



Academic Support, Skills Coaching, and Career Mentoring



# Key Highlights



- Earn an internationally recognised MQF Level 6 degree in Computer Science
- 100% online, flexible learning format ideal for working students or international learners
- Curriculum aligned with global industry standards in software, AI, and data science
- Learn from faculty with real-world tech expertise and academic credentials
- Gain practical experience through hands-on projects, coding labs, and simulations
- Network with a diverse international cohort of peers and professionals
- Personalised academic support, career guidance, and mentorship throughout the programme
- Develop a future-ready skillset in programming, problem-solving, cybersecurity, and more

## Programme Outcomes

**Upon completing the Bachelor of Science in Computer Science, graduates will be able to:**

- Graduates will critically evaluate foundational and advanced computing concepts, applying theoretical frameworks to design effective solutions for complex computational problems.
- Learners will design and develop user-centered software systems, applying modern tools, and industry standards to ensure quality, and achieve user satisfaction.
- Students will analyse algorithms, data structures, and emerging technologies to develop intelligent, secure, and efficient and innovative software systems and applications.
- Learners will communicate technical concepts confidently through presentations while demonstrating leadership, adaptability, and commitment to lifelong learning.
- Evaluate, integrate, and implement emerging technologies and methodologies, conducting research to determine practicality and impact on solving complex industry-specific challenges.

# Why earn an online Bachelor of Science in Computer Science with Euroamerican Institute?



## Globally Recognised Degree

Earn an MFHEA-accredited degree aligned with European standards, opening doors to international career opportunities.



## Industry-Focused Curriculum

Learn what matters most in tech today—from AI to software design—shaped by real industry needs.



## Flexible Online Learning

Study from anywhere in the world through a dynamic virtual campus designed for interactive and applied learning.



## Expert Faculty and Practitioners

Gain insights from academic leaders and active tech professionals who bridge theory with real-world application.



## Strong Global Network

Connect with a multicultural community of learners, tech mentors, and innovators from across the globe.



### Career-Centric Learning Path

Understand in-demand tech skills that prepare you for roles in software development, data science, and beyond.



### Personalised Support & Mentorship

Receive tailored academic guidance and career advice to support your personal and professional growth.

## Who is this Programme for?

- **High School Graduates with a Tech Inclination:** Students who have completed secondary education, particularly those with a background or interest in mathematics, computing, or science, and aspire to pursue careers in software development, AI, or data science.
- **Career Switchers and Non-Tech Graduates:** Professionals from fields such as business, healthcare, education, or the arts who wish to pivot into technology roles and build a strong foundation in computer science.
- **IT Professionals Without Formal Degrees:** Individuals working in tech support, coding, or digital roles who want to earn a recognised qualification and move into higher-level technical or managerial positions.
- **Professionals Returning to the Workforce:** Those re-entering the job market after a career break, seeking to upskill or reskill with future-ready IT capabilities in programming, software engineering, and system design.
- **STEM Education Seekers with Broad Interests:** Students and professionals looking for a comprehensive education in computer science that covers algorithms, databases, cybersecurity, and the ethical impact of technology.

# The Curriculum

## MODULES COVERED

### SEMESTER 1

Module Ref. No.	Module Title	ECTS
BCS601	Fundamentals of IT and Computers	6
BCS602	Computer and Network Technologies	6
BCS603	Database Management System	6
BCS604	Web and Mobile Application	6
BCS605	Principal of Computer Programming	6
<b>SEMESTER 1 TOTAL</b>		<b>30</b>

### SEMESTER 2

Module Ref. No.	Module Title	ECTS
BCS606	Software Engineering	6
BCS607	OOPS with Java	6
BCS608	Management Information Systems	6
BCS609	Network Information Systems	6
BCS610	Cyber Security	6
<b>SEMESTER 2 TOTAL</b>		<b>30</b>
<b>YEAR 1 TOTAL</b>		<b>60</b>

### SEMESTER 3

Module Ref. No.	Module Title	ECTS
BCS611	Python Primer: An Introduction to Programming with Python	6
BCS612	Mathematics for Computing	6
BCS613	Unlocking Big Data: Technologies and Strategies	6
BCS614	Introduction to Cryptography	6
BCS615	Exploring the Nexus: Data Science and Artificial Intelligence	6
<b>SEMESTER 3 TOTAL</b>		<b>30</b>

## SEMESTER 4

Module Ref. No.	Module Title	ECTS
BCS616	Exploring Data Protection and IT Security Measures	6
BCS617	Understanding Information Security Standards	6
BCS618	Exploring the Internet of Things (IoT)	6
BCS619	Machine Learning: Supervised Learning and Unsupervised Learning	6
BCS620	Data Structure & Algorithm	6
<b>SEMESTER 4 TOTAL</b>		<b>30</b>
<b>YEAR 2 TOTAL</b>		<b>60</b>

## SEMESTER 5

Module Ref. No.	Module Title	ECTS
BCS621	Exploring the Fundamentals of Web Security	6
BCS622	Mathematical Modelling	6
BCS623	Introduction to Quantum Computing	6
BCS624	System Analysis and Designing	6
BCS625	Overview of Block Chain and its Security	6
<b>SEMESTER 5 TOTAL</b>		<b>30</b>

## SEMESTER 6

Module Ref. No.	Module Title	ECTS
BCS626	IT Project Management	6
BCS627	E-Commerce	6
BCS628	Knowledge Management	6
BCS629	Capstone Project	12
<b>SEMESTER 6 TOTAL</b>		<b>30</b>
<b>YEAR 3 TOTAL</b>		<b>60</b>
<b>PROGRAMME TOTAL</b>		<b>180</b>

# Admission Process

Admission to the EAI's Bachelor of Science in Computer Science programme is simple and convenient by following an entirely online process. Our admission team evaluates every application and checks every candidate's past academic performance and future potential.

## Apply Online & Complete Documentation

Enrol by filling out the online application. Enter accurate information-personal details, academic qualifications, experience, etc. Upload scanned copies of your transcripts, experience certificates, etc. supporting the information you have provided in the application form.

## Get Offer Letter

The admission panel will review your application, and you will receive an e-mail after getting shortlisted.

## Payment

Complete your admission payment for the Bachelor of Science in Computer Science programme to begin your academic journey. Your student account details will be shared via email.



# Academic Qualifications

To be eligible for admission to the first year of the Bachelor of Science in Computer Science programme, applicants must meet one or more of the following criteria:

## **Matriculation Certificate (MQF Level 4)**

- Applicants should hold the Matriculation Certificate, which includes:
  - Two subjects at Advanced Level and three subjects at Intermediate Level, with grades A, B, C, or D.
  - Passes in English, Mathematics, and Maltese in the Secondary Education Certificate (SEC) examinations.

## **International Baccalaureate (IB) Diploma**

- A minimum of 34 points overall, including:
  - Mathematics at a minimum score of 4 (Higher Level or Standard Level).
  - One business-related subject (e.g., Economics, Business Management) at a minimum score of 4 (Higher Level or Standard Level).

## **GCSE/IGCSE and A-Level Combination**

- Applicants may present:
  - Five GCSE/IGCSE “O” Levels with grades A, B, C, or D.
  - Plus, three A-Level or AS-Level subjects with grades A, B, C, or D.

## **Advanced Placement (AP) Programme (USA)**

- A high school diploma with AP exams in relevant subjects, achieving a score of 3 or higher.

## **Equivalent International Qualifications**

- Other high school leaving certificates or equivalent qualifications that meet MQF Level 4 standards, with grades equivalent to A, B, C, or D in relevant subjects.

In some instances, applicants may also be eligible for exemptions as per the Recognition of Prior Learning (RPL) policy of the institute. Applicants who lack the normal admission requirements but possess relevant skills, experience, and subject knowledge might take advantage of alternative entry paths. The Admissions Committee will review applications from eligible students who are presently enrolled in other universities, applicants who have obtained a lower-level award, or applicants seeking admission through Recognition of Prior Learning (RPL).

Prior experience and learning will be considered in line with the provisions of the EuroAmerican Institute's RPL Policy.

The RPL Policy, which has already been approved by the MFHEA on July 25, 2024, is available for public viewing at <https://www.euroamerican.edu.mt/policies/rpl-policy.pdf>



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