WSB MERITO UNIVERSITY WARSAW

Computer Science

BACHELOR'S DEGREE - PROGRAM

Form: Full-time

Study form: Hybrid • Traditional (on-site)

Features: Engineer's degree • From October • English • 7 semesters

City: Warszawa

What will you learn?

- You will learn to **design and program computer systems**, independently diagnosing and solving potential problems.
- You will develop the ability to **work on software development**, both in individual projects and in developer teams.
- You will master **creating applications for popular platforms**, using modern programming tools.
- You will learn **methods of managing data security**, including installing, configuring and monitoring databases.
- You will learn **game design and the creation of game narratives and mechanics**, integrating artistic and programming aspects.
- You will gain knowledge of **artificial intelligence and machine learning**, developing intelligent systems and algorithms.

Work opportunities

- You will find employment as an **application developer**, creating solutions tailored to client needs in the global market.
- You can become a **computer systems analyst**, supporting companies in optimising their IT infrastructure.
- You will develop your career as a **data engineer**, analysing and processing large data sets in the IT sector.
- You work as a **cybersecurity specialist**, protecting systems and data against threats in cyberspace.
- You are employed as a **computer game designer**, creating modern games using advanced technologies.
- You can act as an **IT project manager**, organising and supervising the work of development teams.

Study program

Practical studies

We teach in a way that best prepares you for the real challenges you will encounter in your professional work.

- **Group projects** – real business problems.
- **Simulations** – decisions in market conditions.

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umo wy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między Uniwersytetem WSM Merito we Wrocławiu a studentem zawierana jest w formie pisemnej.

- **Internships and placements** – experience in companies.
- **Lectures with practitioners** – experts from the market.
- **Modern tools** – up-to-date technologies.
- **Case studies** – analysis of real cases.

Selected major-specific courses

- Linear algebra
- Object-oriented programming
- Operating systems
- Process mapping and design (UML and BPMN)
- Discrete mathematics
- Fundamentals of databases
- Fundamentals of artificial intelligence and expert systems
- Innovation and the future of the IT industry
- Automation and robotics
- Advanced programming
- Design of information systems

Selected specialization courses

- Technical security management
- ICT security
- Quality and security management
- Design patterns
- Advanced programming
- Software integration with the AZURE platform
- Web application programming with MVC

Foreign language study

For full-time studies:

- 120 hours of foreign language learning (30 hours per semester) from the 1st to the 4th semester.

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umo wy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między Uniwersytetem WSM Merito we Wrocławiu a studentem zawierana jest w formie pisemnej.

Form of delivery:
all classes are conducted on-site with a language instructor.

For part-time studies:

- 120 hours of foreign language learning (30 hours per semester) from the 1st to the 4th semester.

Form of delivery:

- 16 hours of classes in a classroom with a language instructor (during on-campus sessions)
- 14 hours carried out in an e-learning format

Languages to choose from: English, German, Spanish.

Internships and practical training

Student internships are an important part of the study program. Students of bachelor's and long-cycle master's studies complete 960 hours of internships (24 weeks), gaining professional experience. If you work in a profession related to your field of study, you can have your internship credited based on your employment. During your studies, you also have the opportunity to take a paid internship. Internship programs are designed by cooperating employers, tailoring requirements to specific positions, which helps you take your first professional steps.

Study completion requirements

You create a major project that addresses a practical or theoretical problem related to your field of study. By studying literature and conducting your own analyses, you work on an original problem-solving proposal. Everything you learn during your studies enables you to create a professional project based on real data and actions. To earn your bachelor’s degree, you must defend this project before a committee. You set the direction of your own project!

Programme partners

How to become a WSB Merito University student

You can enroll in a **first degree (e.g. Bachelor's or Engineer's) program** if you have successfully completed your secondary education and have a secondary school-leaving certificate.
Learn more

Take the first step – register now!

Applicants are admitted on a first-come first-served basis. If you are to complete your secondary education this year, or you are studying for your first degree but have not yet earned it, **you can secure a place with us by signing up online.** Your educational service contract can be drawn up later as you have collected all of the required documents.
Create an account or log in

Specializations in the Computer Science program

ICT Systems Programming

Form: Full-time

Study form: Hybrid • Traditional (on-site)

Security of Computer Systems

Form: Full-time

Study form: Hybrid • Traditional (on-site)

Lecturers

mgr Jakub Putz

- Specjalizuje się w zagadnieniach związanych z systemami operacyjnymi i bezpieczeństwem, koncentrując się na praktycznych rozwiązaniach wspierających niezawodność i ochronę danych.
- Swoje doświadczenie zawodowe buduje na 16-letniej działalności gospodarczej w obszarze projektów www, doradztwa inwestycyjnego oraz kompleksowego wsparcia rozwiązań IT."
- Autor artykułu opublikowanego w 2014 roku w zeszycie naukowym WSP w Warszawie pt. Wirtualne przedsiębiorstwa szansą na rozwój konkurencyjności.

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umo wy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między Uniwersytetem WSM Merito we Wrocławiu a studentem zawierana jest w formie pisemnej.

Journey of Dmytro

In 20 years' time, I would like to enjoy my life, as I actually try to do all the time. My education at WSB Merito University in Warsaw will help me a lot with that. My plan is to open my own business and in 20 years' time just, you know, collect the harvest of my life. This field seems to be the one that is most applicable to my future business. It relates to real calculations and making sure that you are going to be profitable and will achieve success.

Dmytro Fedorov, IT student

Dane zamieszczone w niniejszej karcie kierunku mają charakter wyłącznie informacyjny. Dane te nie stanowią oferty zawarcia umo wy w rozumieniu art. 66 i nast. kodeksu cywilnego. Zgodnie z art. 160 ust. 3 ustawy z dnia 27 lipca 2005 roku Prawo o szkolnictwie wyższym, umowa między Uniwersytetem WSM Merito we Wrocławiu a studentem zawierana jest w formie pisemnej.