

BACHELOR

FULL-TIME | 6 SEMESTERS | ENGLISH

Creative Computing

Interface Design | Experience Design and Development for Web |
Mobile | Games and Virtual Reality

EUDRES



ustp.at



University of
Applied Sciences
St. Pölten

Shape the Digital Future!

Want to shape the digital future? The interface between humans and computers is where digital transformation happens — and you're right at the centre of it. In this bachelor degree programme, you gain the skills to plan, design, and programme smart, engaging user experiences. You combine technical coding know-how with creative expertise in User Interface Design, Game Design, Web Technologies, Mobile Programming, and Augmented & Virtual Reality.

You develop a strong foundation in computer science, media design, and user-centred methods from the social sciences — which gives you a broad and future-ready qualification profile.

Focus Areas

- **Programming:** Get hands on with JavaScript, mobile app development, and C# for AR/VR using Unity.
- **Human-Computer Interaction:** Learn how to conduct user research, prototype ideas, evaluate interfaces, and develop for smart devices.
- **User Interface Design:** Build the design skills you need to create web, mobile, and AR/VR interfaces for all screen media.

With this well-rounded and practical training, you're prepared for exciting opportunities in a wide range of digital industries.

Career prospects at a glance

- Web & Mobile Designer
- Web & Mobile Developer
- User Interface & User Experience Designer
- Front-End & Full-Stack Developer
- Digital Artist
- Game Designer
- Game Developer
- XR Designer
- XR Developer
- AI Developer

6 semesters



Bachelor of Science in Engineering (BSc)



full-time



Language: English



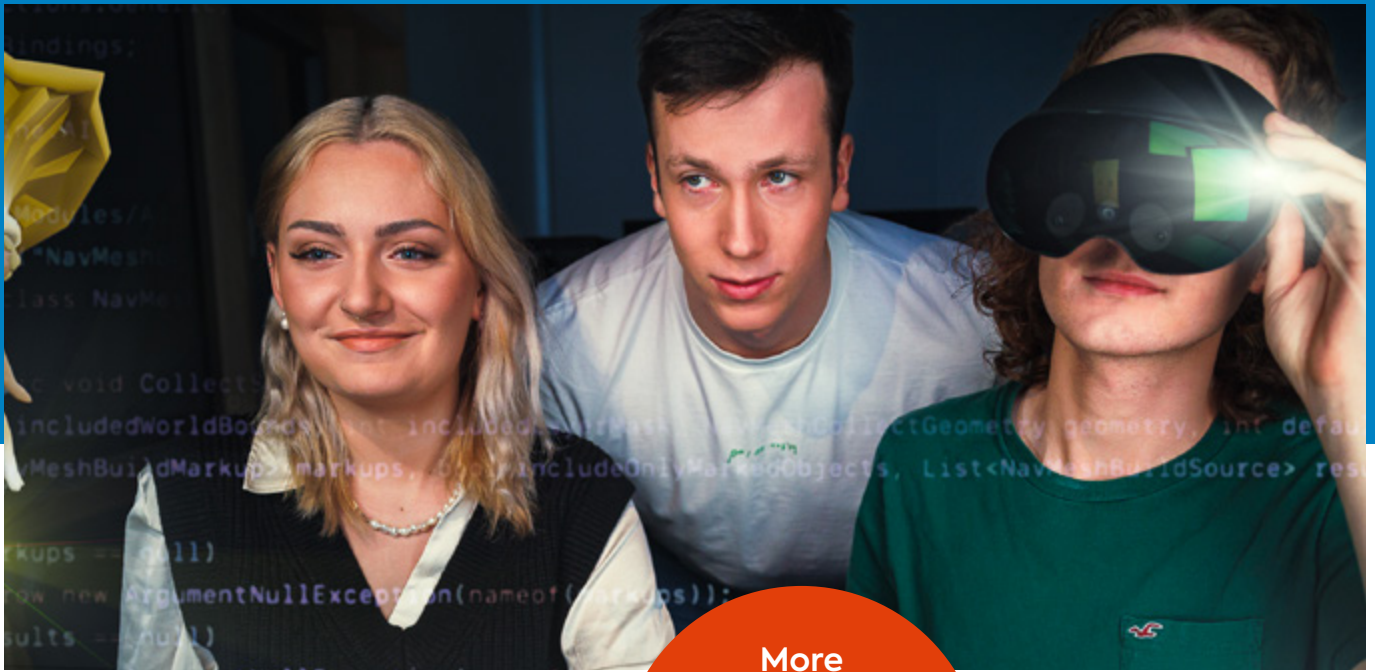
75 places per year



€ 363.36 per semester¹ + Students' Union fee



¹ € 1,500.00 (per semester for students from third countries; performance-based tuition fee waivers are available)



More
information



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What makes your studies unique

Creative Code Labs

This study programme is built on project-based learning. Each of the first four semesters ends with a two-week Creative Code Lab on topics like Games & Playful Front Ends, Connected World, Mobile Applications, and Extending Realities. In semester five, you dive deeper into one of these topics in a group project.

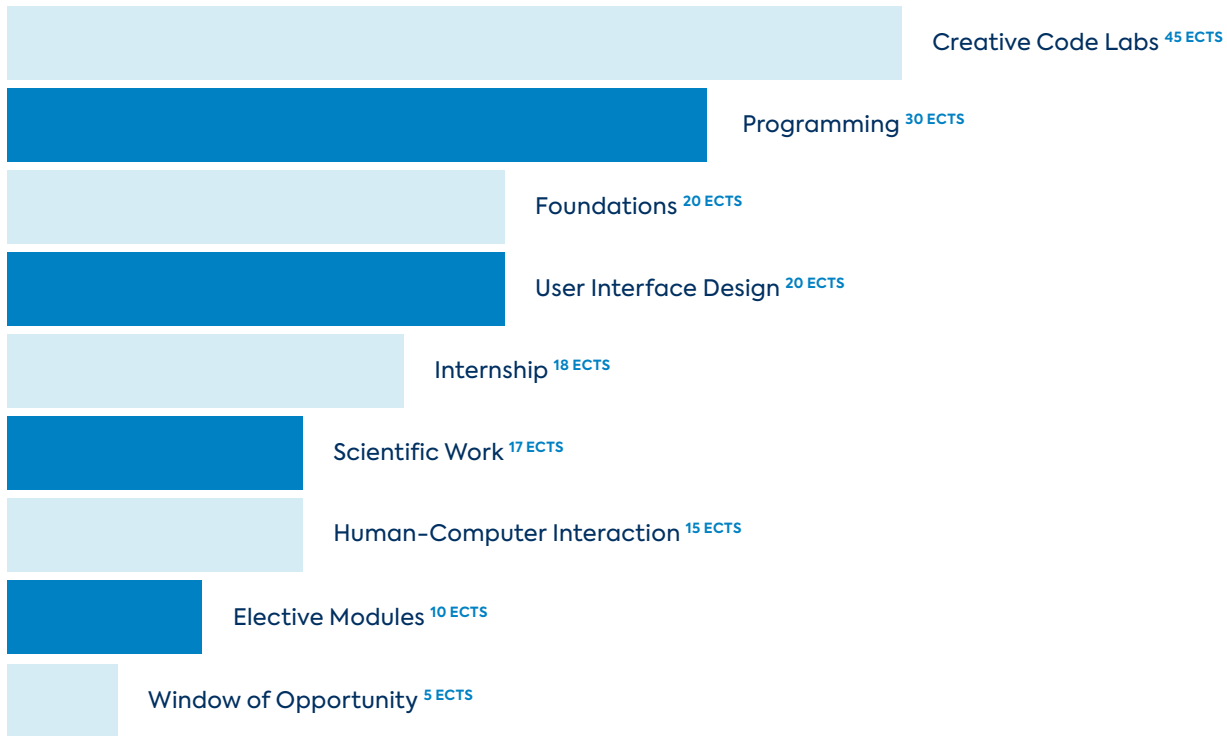
Internationalisation at Home

You prefer to stay local but still want to gain experience? Join an international, interdisciplinary project semester and solve real-world challenges in diverse teams. You also have the opportunity to go abroad, particularly during your internship in the sixth semester. Short-term collaborations via the Window of Opportunity help expand your international mindset.

Your Choice: AI, Game Animation, and More

Nearly a third of your studies is up to you. With electives in your third and fourth semesters, along with your thesis and the final Creative Code Lab, you can specialise in areas such as Applied AI, Machine Learning with Python, Computer Vision, 2D Game Animation, Data-to-Sound and Visuals, Extended Creativity, and Digital Game Production — let your studies match your passion and goals.

Weighting of the course content



**Here you can submit
your application!**



**Do you have any
questions or need
assistance?**

Don't hesitate to ask – we are happy to help! Whether by email, phone, or in person: Get in touch with us and we will take the time to address your concerns!

Campus and Study Center (CSC)
+43 2742 313 228-333
csc@ustp.at

Curriculum

Creative Computing

180 ECTS

1 st Semester	ECTS
Front-End Development	
Introduction to Web Technologies	3
Client-Side Coding	4
2D Browser Game Coding	3
Visual Design and Game Graphics	
Graphics Design	3
2D Game Graphics	2
Foundations of Creative Computing	
Data Ethics	1
Game Design and Digital Storytelling	3
Selected Legal Topics for Developers and Designers	1.5
Design Thinking	1.5
Mathematical Foundations for Computing	3
Creative Code Lab 1: Games and Playful Front-Ends	5

2 nd Semester	ECTS
Web Programming	
Server-Side Coding	5
Design-Oriented HCI	
Introduction to Human-Centred Design	2
User Research	3
Web Design	
User Interface Design	3
Inclusive Design and Accessibility	2
Foundations of Creative Computing 2	
Networks, Cloud & Communication Security	3
Applied Artificial Intelligence (AI)	3
Framework-Oriented Coding	4
Creative Code Lab 2: Connected World	5

3 rd Semester	ECTS
Mobile Programming	
Mobile Coding	5
Empirical Methods in HCI	
Usability and Experience Evaluation	5
Mobile and Tangible User Interface Design	
User Interface Design for Mobile Devices	3
Tangible User Interfaces	2
Physical Computing and Algorithms	
Physical Computing and Connectivity	2
Data Structures and Algorithms	3
Elective Module	
Elective Module	5
Creative Code Lab 3: Mobile Applications	5

4 th Semester	ECTS
Extended Reality Coding	
Practical Software Design Principles	3
Engine-Based Extended Reality Development	5
Audio for 3D Engines	2
3D Design	
3D Modelling and Animation	3
Interface and Interaction Design for Extended Realities	2
Scientific Writing	5
Elective Module	5
Creative Code Lab 4: Extending Realities	5

5 th Semester	ECTS
Creative Code Lab 5: Applications in Creative Computing	
Bachelor Thesis: Plan and Research	5
Project Work	19
Scrum Coaching	2
Software Testing	1
Team Development	3

6 th Semester	ECTS
Bachelor Exam	2
Bachelor Thesis: Implementation and Evaluation	5
Internship	18
Window of Opportunity	5



University of
Applied Sciences
St. Pölten

Personalise Your Academic Path

We are there for you along the way – offering commitment, expert knowledge, and a learning culture that puts your individual development at the centre.

Experience Europe during Your Studies

As part of the European University Alliance E³UDRES², you experience European learning, research, and collaboration in action.

Create Ideas with Impact

At USTP, you find room for participation, creative solutions, and bold ideas – in an inspiring campus environment.

Your Studies at USTP

A new name – the same strong values. The St. Pölten UAS is now University of Applied Sciences St. Pölten – in short: USTP. While our name and visual identity have evolved, our core values remain unchanged. We are committed to delivering outstanding teaching and impactful applied research, guided by an open, European perspective. At University of Applied Sciences St. Pölten, we foster individualised guidance and a culture that connects people, ideas, and disciplines – all on a state-of-the-art campus designed to inspire innovation.

It starts with you. USTP.



We are the winner of the Global Student Satisfaction Award 2025 – Quality of Student Life



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Diversity on Campus St. Pölten

Inclusion, gender equality, and diversity are important to us. Our campus is barrier-free. Please make sure to contact us in good time to allow us to take your needs into account.

Stay up to date on social media!

 [instagram.com/ustp_hochschule](https://www.instagram.com/ustp_hochschule)
 [youtube.com/@ustp_hochschule](https://www.youtube.com/@ustp_hochschule)
 [linkedin.com/school/ustp_hochschule](https://www.linkedin.com/school/ustp_hochschule)