

# School of Computing Science, Business Administration, Economics, and Law

Last Updated: 4/2021

# School of Computing Science, Business Administration, Economics, and Law

## About us:

Our School was established in April 2003 through a fusion of the departments of Computing Science, Business Administration, Economics and Law, as well as Economics Education and Technical Education. In 2009, the Department Technical Education moved to Faculty V – Mathematics and Sciences.

Today, the school is distinguished by its clear and independent profile, shaped by the Departments of Computing Science and of Business Administration, Economics, and Law. This is illustrated in the field of academics by:

- innovative and trans-regionally attractive degree programmes combined with a highly service-orientated advisory competence. We offer a series of bachelor's and master's programs that set themselves apart with their modern teaching and learning concepts.

And in the research field by:

- clearly profiled core research fields with national and international dimensions, as also reflected in the SFB research training group, in the collaborative research centre (SFB), in the scientific centres, and the school's associated institutes. An active programme for securing external funding also compliments the school, as does the engaged support of young academics in their respective fields.

# School of Computing Science, Business Administration, Economics, and Law

## Dean's office April 2021 to March 2023



**Dean**  
Prof. Dr. Rudolf Schröder



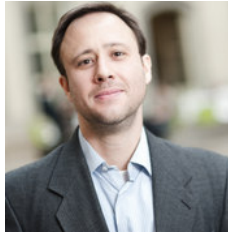
**Vice-Dean Department  
of Computing Science**  
Prof. Dr. Sebastian Lehnhoff



**Vice-Dean Department of Business  
Administration, Economics and Law**  
Prof. Dr. Christoph Böhringer



**Dean of Studies**  
apl. Prof. Dr. Jürgen Sauer



**Vice-Dean of Studies**  
Prof. Dr. Cristian Huse

# School of Computing Science, Business Administration, Economics, and Law

## Departments

The individual departments are distinguished by their innovative research and extensive active procurement of external funding, as well as by their structured bachelor's and master's programmes. Along with the doctoral programme and modern administrative structures, these programmes serve to encourage and support young academics. Additionally, equality and family-friendliness are also very important.

The [Department of Computing Science](#) consists of the sections:

- Theoretical Computer Science
- Software Systems
- Computer Science Applications
- Computer Engineering

The [Department of Business Administration, Economics, and Law](#) encompasses:

- Economics
- Business Administration, and Education
- Law
- Economic Education

# School of Computing Science, Business Administration, Economics, and Law

## Department of Computing Science

### Theory of Computing

Formal Methods

Correct Systems Design

Safety and Expainability of Learning Systems (N.N.)

### Software Systems

Media Informatics and Multimedia Systems (N.N.)

Computational Intelligence

System Software and distributed Systems

Software Engineering

Data Science

### Computer Science Applications

Very Large Business Applications

Energy Informatics

System Analysis and - Optimization

Didaktik der Informatik

Intelligenz Transportation Systems

Applied Artificial Intelligence

Digitized Energy Systems

### Computer Engineering

Safety Critical Embedded Systems

Mikrorobotics and Control Engineering

Hybrid Systems

Embedded Hardware-/Software Systems Design

Safety-Security-Interaction (N.N.)

Distributed Control in Interconnected Systems (N.N.)

### Central facilities

ARBI IT

Software Lab

Hardware Lab

# School of Computing Science, Business Administration, Economics, and Law

## Department of Business Administration, Economics and Law

<b>Business Administration and Education</b>	<b>Economics</b>	<b>Law</b>	<b>Economic Education</b>
Vocational Training and Business Education	Public Science	Civil Law, Labour Law	Economic Education
Management Consulting	Internationale Economics	Civil Law, Trade Law, Business Law, and IT Law	Economic Education with Vocational Orientation
Finance and Banking	Economic Policy		
Marketing	Applied Microeconomics	European and International Economic Law, Private Law	
Ecological Economics	Environmental and Energy Economics	Public Law, European Law, Legal Theory, Information and Telecommunication Law	
Organisation and Personnel	Applied Macroeconomics	Taxation	
Sustainability and Supply Chain Management	Quantitative Methods		
Accounting and Corporate Governance		Hanse Law School	
Entrepreneurship			
Strategic Management and Environmental Policy of Firms			
Innovation Management and Sustainability			
Franco-German double BA-degree Programm			
Female Entrepreneurship			
Economy of the Commons			

# School of Computing Science, Business Administration, Economics, and Law

## Academics and Teaching

Academics and teaching at the Carl von Ossietzky University have changed considerably since the introduction of modularised courses of study in the new bachelor's and master's programmes.

- For Students - These courses are shorter in duration and place higher demands on the students, not only in content, but in the organisation of each individual's studies.
- For Academic Staff - It is necessary for instructors and tutors to coordinate their modules exactly with one another whenever possible, to constantly assess the quality of modules, and when necessary, to further develop the courses offered.
- For Administrative and Support Staff - Staff in the central student services (Central Student Advisory Service, Executive Support Unit for Academics and Teaching, Student (Psychological) Counselling Service, Information, Library and IT Service (IBIT)) have an abundance of new responsibilities, many of which increasingly require the application and mastery of new IT equipment and software.

Communication regarding the structuring of the newly offered study programmes is essential for all of those participating in or affected by the structural reform of study programs. The changes concerning the way academic credit is evaluated are important both in the administration of examinations and in advertising aimed at prospective students.

# School of Computing Science, Business Administration, Economics, and Law

## Bachelor's Programmes

### Computing Science

- Computing Science (B. Sc.)
- Business IT (B. Sc.)
- Computing Science (B.A., B. Sc.)

### Business Administration, Economics and Law

- Business Administration and Law (B.A.)
- Economics and Business Administration (B.A.)
- Comparative and European Law - Hanse Law School (LL.B.)
- Economics and Business Administration (B.A. Dual-subject/B.Sc.)
- Economic Education (B.A. Dual-subject/B.Sc.)
- Business Administration for Top Athletes (B.A.)
- Business Administration for Small and Mid-sized Enterprises (B.A.)
- Politics - Economics (B.A. Dual-subject/B.Sc.)
- Economics of Sustainability (B.Sc.)



# School of Computing Science, Business Administration, Economics, and Law

## Master's Programmes

### Computing Science

- Computing Science (M.Sc.)
- Embedded Systems and Microrobotics (M.Sc.)
- Business IT (M.Sc.)
- Computing Science (M.Ed.)
- Engineering of Socio-Technical Systems (M.Sc.)

### Business Administration, Economics and Law

- Economics and Business Administration (M.Ed.)
- Management Consulting (M.A.)
- Business Administration, Economics, and Law (M.A.)
- Sustainability Economics and Management (M.A.)
- Politics - Economics (M.Ed.)
- Economic Education/Economics (M.Ed.)
- Transnational Law (Hanse Law School) (LL.M.)
- Law and Information Systems (LL.M.)
- Innovation Management (M.A.)
- Water and Coastal Management (M.Sc.)

# School of Computing Science, Business Administration, Economics, and Law

## Research

Faculty II offers excellent research in several areas

Department of Computing Science Core Research Areas

- Safety-Critical Systems
- Information Systems

- Research Activities

- DFG Collaborative Research Centre AVACS
- DFG Research Training Group SCARE
- Research Centre Safety Critical Systems
- Associated Institute OFFIS

- Core research in the Department of Business Administration, Economics, and Law

- Environmental Economics and Sustainability Management (UNA)
- Transnational Economics and Law in the Information Society (TELIS)
- Entrepreneurship and Innovation Management (EI)
- Teaching, Learning, and Qualification Research (LLQ)

Cooperation between the two departments consists primarily of the thematic areas of Business IT, Environmental Research, and Legal Issues in the Internet. Furthermore, it involves the formation of synergies with research fields spanning all of the scientific centres and research centres in the entire university.

# School of Computing Science, Business Administration, Economics, and Law

## Research Centres

Research centres are outstanding interdisciplinary scientific centres at the University of Oldenburg, and they are established in close coordination with the university's strategic aims. The research centres at the University of Oldenburg display an interdisciplinary character and correspond to the qualitative and quantitative criteria required for a DFG Collaborative Research Centre. Due to this exceptional designation, the research centres are an area of excellence and serve to enhance the profile of the university.

The multi-disciplinary Research Centre for Safety Critical Systems was founded in September 2004 at the University of Oldenburg. This took place within the context of the establishment of the Collaborative Research Centre AVACS (Automatic Verification and Analysis of Complex Systems) and the associated Institute OFFIS (Oldenburg Research and Development Institute for Information Technology Tools and Systems) from the field of Computing Science, as well as with the participation of the Departments of Physics, Psychology, and IT Law. This research centre focuses on investigating safety applications in the fields of aviation and transport, encompassing many aspects of these fields, especially those that concern the question of automatic verification as derived from AVACS. Additionally, this centre looks at the interdependency of man and machine and the legal aspects of safety.

# School of Computing Science, Business Administration, Economics, and Law

## Research Training Groups

Research training groups are temporary university facilities intended to facilitate and support the activities of young academics. The most important component of these groups is the thematically interconnected and thematically defined research and study programme. Research training groups are intended to encourage the early academic independence of doctoral students, as well as to intensify international exchanges. They are open to international researchers. An interdisciplinary orientation for the research and study programme is desirable.

The Deutsche Forschungsgemeinschaft (DFG) has given approval for a research training group with the title “System Correctness under Adverse Conditions, SCARE.” The official start was 1/10/2012. On 11 November 2016, the DFG extended SCARE for a second phase of 4,5 years duration starting from 1 April 2017. This comprises 15 new doctoral positions of three years each.

# School of Computing Science, Business Administration, Economics, and Law

## Graduate School Program/Doctoral Studies

**TELIS** „Transnational Economics and Law in the Information Society“

**UNA** „ Environmental Economics and Sustainability Management“

**SEE** “System Integration of Renewable Energy“

**SAMS** “Safe Automation of Marine Systems“

**GINT** “Lernen in informellen Räumen“

# School of Computing Science, Business Administration, Economics, and Law

## Scientific Centres

Scientific centres are centres that transcend schools and disciplines at the University of Oldenburg, and are, like the research centres, established in close coordination with the university's strategic aims. They collaborate with the individual institutes, department and schools. Above all, scientific centres promote interdisciplinary research and academics in relation to the university's model, thereby providing a particularly important addition to enhancing the university's profile. Scientific centres are independent organisations which are set up temporarily or indefinitely and regularly subject to external evaluation. At this time, six scientific centres have been set up with the participation of our school at the University of Oldenburg.

- **C3L** – Center for Life Long Learning
- **COAST** – Center for Environmental and Sustainability Research
- **CENTOS** – Oldenburg Center for Sustainability Economics and Management
- **ZenaRio** – Center for Sustainable Spatial Development Oldenburg
- **ZenTra** – Center for Transnational Studies at the Universities of Bremen and Oldenburg
- **CETRO** – Jean Monnet Centre for Europeanisation and Transnational Regulation Oldenburg
- **ZRI** – Interdisciplinary Centre of Law for the Information Society

# School of Computing Science, Business Administration, Economics, and Law

## Associated Institutes

The Carl von Ossietzky University of Oldenburg supports the cooperation of private, state, or state-supported research and education facilities. The cooperation of the affiliated institutes and the university is governed by cooperative agreements.

- **OFFIS e.V.** - Oldenburger Forschungs- und Entwicklungsinstitut für Informatik-Werkzeuge und – Systeme e. V.
- **IÖB** - Institut für Ökonomische Bildung (Institute for Economic Education)
- **Ecco GmbH** – ecology + communication Unternehmensberatung GmbH (Ecology and Communication Consultancy GmbH)
- **Express Fonds Nordwest GmbH**

# School of Computing Science, Business Administration, Economics, and Law

## Internationalisation

The University of Oldenburg currently has a lot of partner universities worldwide. With regards to internationalisation, we are an active player in several diverse areas such as research and teaching, as well as supporting young scholars.

Within the scope of the ERASMUS Programme, Faculty II maintains almost 20 active cooperative agreements with partner universities within Europe.

- Teaching and research cooperation
- Doctoral programme with foreign universities
- Bi-national doctoral programmes
- Guest visits by foreign academics and scientists
- Exchange of students, scientists, and instructors
- Combined programme with the University of Groningen
- Double bachelor programme
- Outgoing faculty exchange in master's programmes
- English language summer schools
- Focus Area: "China – Economy and Language" within the master's programme in Economics and Law



# School of Computing Science, Business Administration, Economics, and Law

## Facts and Figures

4.718 Students (WiSe 2020/2021)

€ 6,5 Mio. external funding (2019)

38 Professors (1.12.2019)

178 Research assistants (state and externally funded, 1.12.2019)

38 Administrative staff (1.12.2019)

148 Promotions (2020/2021)

# School of Computing Science, Business Administration, Economics, and Law

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