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
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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
## Department of Computing Science

### Theory of Computing
- Formal Methods
- Correct Systems Design
- Safety and Explainability 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

<table>
<thead>
<tr>
<th>Business Administration and Education</th>
<th>Economics</th>
<th>Law</th>
<th>Economic Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vocational Training and Business Education</td>
<td>Public Science</td>
<td>Civil Law, Labour Law</td>
<td>Economic Education</td>
</tr>
<tr>
<td>Management Consulting</td>
<td>Internationale Economics</td>
<td>Civil Law, Trade Law, Business Law, and IT Law</td>
<td>Economic Education with Vocational Orientation</td>
</tr>
<tr>
<td>Finance and Banking</td>
<td>Economic Policy</td>
<td>European and International Economic Law, Private Law</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td>Applied Microeconomics</td>
<td>Public Law, European Law, Legal Theory, Information and Telecommunication Law</td>
<td></td>
</tr>
<tr>
<td>Ecological Economics</td>
<td>Environmental and Energy Economics</td>
<td>Taxation</td>
<td></td>
</tr>
<tr>
<td>Organisation and Personnel</td>
<td>Applied Macroeconomics</td>
<td>Hanse Law School</td>
<td></td>
</tr>
<tr>
<td>Sustainability and Supply Chain Management</td>
<td>Quantitative Methods</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.
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.
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“
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**
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)
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