

AIS Collection of IS Institutions and Educational Resources

Institution Name	College/School	Department
University of Cologne	Cologne Institute for Information Systems, Faculty of Management, Economics and Social Sciences	Department of Information Systems
Country	AIS Region	Full Postal Address
Germany	Region 2: Europe, Africa, The Middle East	Cologne Institute for Information Systems, Pohligstraße 1 Cologne, North Rhine-Westphalia, 50969 Germany
Web Link:	Contact	
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Institution Summary

The University of Cologne is one of the oldest and largest universities in Europe. Due to its outstanding scientific achievements and the high quality and diversity of its degree programmes, it enjoys an excellent international reputation.

The Faculty of Management, Economics and Social Sciences has more than a century of experience in the education of new generations of business professionals, economists, social analysts and political experts. During this time we have developed a tradition of close dialogue with our stakeholders and a focus on research that is relevant to the corporate world, to economic policy and to society at large. Today as in the past, our faculty is committed to further cultivating the unity of research and teaching which enables us both to deliver insights and to educate people, and in so doing to enrich business practice and broaden societal alternatives at home and internationally.

The Cologne Institute for Information Systems (CIIS) is part of the Faculty of Management, Economics and Social Sciences. More than five groups and over 30 professors, lecturers, and research assistants provide teaching services on an equal footing with research in the Bachelor's and Master's programmes operated jointly with the Faculty of Mathematics and Natural Sciences as well as in postgraduate continuing education, including the University of Cologne Business School.

Programs and Courses Summary

A bachelor's degree paves the way for your individual career path – regardless of whether you enter the profession directly after your Bachelor's degree, complete a trainee programme or decide on a further master's degree programme. The University of Cologne offers an undergraduate degree (Bachelor of Science) in Information Systems.

The University of Cologne also offers two consecutive master's programmes (Master of Science) in the fields of Information Systems and Business Analytics.

Information Systems Programs

Program Name	Bachelor of Science in Information Systems	Master of Science in Information Systems	Master of Science in Business Analytica and Econometrics
Program Description	<p>The Information Systems programme at the Cologne Institute for Information Systems offers a solid foundation in Economics, Computer Science, and Information Systems, along with opportunities for individual specialisation. Students benefit from intensive small group support and practical projects in collaboration with well-known companies and organisations.</p> <p>The programme Information Systems combines methods from Economics, Computer Science, Mathematics, and Statistics. It provides an overview of how IT can be utilised to design and develop information and application systems in both business settings and everyday life. The focus is on supporting processes and activities within and between organisations.</p> <p>The bachelor programme Information Systems is a programme designed to take 6 semesters (3 years) and 180 ECTS points have to be obtained. The programme consists of the core and advanced section, supplementary section, the specialisation section and a bachelor thesis.</p> <p>In the core and advanced section, basics of business administration, mathematics, informatics and information systems are taught and deepened. In the supplementary section, students have the choice between more modules from business administration, informatics or information systems which can be selected according to interest and career ambitions. The specialisation section of the programme sets the focus on the teaching of instrumental competencies in the area of informatics and information systems.</p>	<p>This programme provides you with:</p> <ul style="list-style-type: none"> - theoretical and methodological basis for dealing with key issues such as data science, digital transformation and innovation, processes and business models as well as solutions for a sustainable society. - education in the interdisciplinary field of information systems, which has its roots in computer science, economics, and business management. - the key capability to bridge business management and computer science that is often required in the labour market. - a sound know-how of information systems concepts and methods is crucial for students and an indispensable part of any good manager's toolset. Case studies, business projects with companies, and guest lecturers from the corporate world give you insights about relevant issues. 	<p>Data analytics, digital innovation and big data are crucial developments for the upcoming challenges in all business and economic areas. This programme offers a unique blend of traditional analytics (e.g. statistics, econometrics, optimisation, simulation) and modern analytical approaches (e.g. machine learning and artificial intelligence using R and Python) and merges these approaches with the teaching of groundbreaking knowledge in the areas of economics, management, and entrepreneurship.</p>
Level	BA	MA	MA
Teaching Mode	On campus	On campus	On campus
Semester duration of program	6		

Highlights
of the
program

Comprehensive fundamentals and individual specialisation: A business information systems degree of the Cologne Institute for Information Systems (CIIS) consists of a comprehensive basic training in the relevant disciplines of economics, computer science and business information systems. Throughout your studies, you will benefit from the exchange between and connecting of the various disciplines and departments within the WiSo Faculty and the University of Cologne.

Intensive supervision in small groups: We promote interpersonal exchange by organising small group work. Goal-oriented work in parallel small groups is not only offered in core courses in advanced semesters but also; in specific courses in the basic and advanced modules.

Strong practical relevance: Application-oriented project events such as the "Capstone Project" are an integral part of the curriculum and are formatted, in cooperation with companies and organisations. They expose you to the practical relevance of course material and enable you to apply the concepts and methods of digitalisation taught to solve practical problems.