STUDYING AT THE THU
Bachelor's | Master's | Dual
A promise you can hold us to. Whether a Bachelor's degree program, a Master's degree program or a doctoral degree – if you're into technology, then you'll find the right course at THU.
YOUR STRENGTHS
YOUR INTERESTS
YOUR UNIVERSITY

01 FINDING THE RIGHT COURSE
02 WHAT CAN YOU STUDY AT THU?
03 BACHELOR'S DEGREE PROGRAMS
04 DUAL STUDY PROGRAMS
05 JOINT DEGREE PROGRAMS
06 WHY THU?
07 MASTER'S DEGREE PROGRAMS
08 STUDENT ADVISORY SERVICE
09 APPLYING AND ENROLLING
10 LIVING IN ULM
INTERESTS, SKILLS AND STRENGTHS?
› What am I interested in?
› What are my strengths?
› What am I good at?
› Which skills would I like to develop?

CAREER GOALS?
› Is THU right for me?
› Is the THU course right for me?
› Which opportunities will this qualification open up for me?
› Which careers are open to me with this degree qualification?

Find the right course at THU and combine your strengths and interests with your dream job.
THU – Ulm University of Applied Sciences
Find the course that's right for you!

- MECHANICAL ENGINEERING AND MOBILITY
- COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE
- HEALTHCARE AND MEDICAL ENGINEERING
- ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
- ENERGY AND ENVIRONMENT
- BUSINESS AND MANUFACTURING
- MEDIA AND DESIGN
YOUR FUTURE CAREER
Engineers have a huge choice of careers – whether in the mechanical engineering, automotive or manufacturing sectors – developing new products and systems, designing and organizing production processes or in quality management.
Degree programs:  
Mechanical Engineering and Mobility

MECHANICAL ENGINEERING  
B. Eng.  
Methods and techniques used to design and develop machines and systems, CAD technology, modern calculation methods, electronics and simulation, automation engineering, energy technology.  
Starts: winter/summer semester  
Contact: +49 (0)731 50-2 81 31  
e-mail: mb@thu.de  
www.thu.de/mb

AUTOMOTIVE ENGINEERING  
B. Eng.  
Drive technologies, alternative drive technologies, chassis and vehicle construction, body and interior, vehicle electrical systems and electronics, component testing and optimization, safety, environmental and climate protection.  
Starts: winter/summer semester  
Contact: +49 (0)731 50-2 81 31  
e-mail: fz@thu.de, www.thu.de/fz

MECHATRONICS  
B. Eng.  
Designing systems with mechanical, electrical and electronic elements, computer and IT systems such as ABS and ESP, sensors for autonomous driving or industrial robots.  
Starts: winter/summer semester  
Contact: +49 (0)731 50-2 86 47  
e-mail: mc@thu.de  
www.thu.de/mc

PRODUCTION ENGINEERING AND ORGANIZATION  
B. Eng.  
Production processes, production planning, design and manufacturing engineering, management, factory planning, logistics and quality assurance.  
Starts: winter/summer semester  
Contact: +49 (0)731 50-2 81 21  
e-mail: po@thu.de  
www.thu.de/po

COMPUTATIONAL SCIENCE AND ENGINEERING (CSE)  
B. Sc.  
Mathematical modeling and simulation in diverse applications in engineering, computer science and the life sciences. Joint, interdisciplinary program with Ulm University.  
Starts: winter semester  
Jointly with: Ulm University  
Contact: +49 (0)731 50-1 68 14  
e-mail: cse@thu.de  
www.thu.de/cse
YOUR TASKS
To help shape the digitalization of our economy and our society. Today’s world is inconceivable without algorithms and software – from websites, IT systems and artificial intelligence, through to programming autonomous robots.

YOUR FUTURE CAREER
Whether in industry, commerce or the service sector – computer scientists are needed everywhere – and especially wherever there is innovation. You will help develop and optimize new business models, products and services.

“I've always been fascinated by technology. And I wanted to study something which is sought-after on the jobs market. Computer Science keeps my options open.
Simon P. – THU graduate in Computer Science

YOUR INTERESTS
- Internet of Things
- IT Security
- Software
- Mobile computing
- e-Health
- Big Data
- Cloud
- Java
- Machine learning

COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE
### Computer Science and Artificial Intelligence

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPUTER SCIENCE (INF) B. Sc.</strong></td>
<td>Managing data, the resource of the 21st century: from sensors and information systems, through to the Internet of Things (taught in German).</td>
</tr>
<tr>
<td><strong>Starts:</strong></td>
<td>winter semester</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>+49 (0)731 50-2 86 47 e-mail: <a href="mailto:inf@thu.de">inf@thu.de</a> <a href="http://www.thu.de/inf">www.thu.de/inf</a></td>
</tr>
</tbody>
</table>

| **COMPUTER SCIENCE (CTS) B. Sc.** | The same course content, but taught in English. |
| **Starts:** | winter semester |
| **Contact:** | +49 (0)731 50-2 86 47 e-mail: ics@thu.de www.thu.de/ics |

| **COMPUTER SCIENCE INTERNATIONAL PROGRAM (ICS) B. Sc.** | Combine your computer science degree with an additional qualification from a top American university (double degree). |
| **Starts:** | winter semester |
| **Jointly with:** | Rose Hulman Institute of Technology |
| **Contact:** | +49 (0)731 50-2 86 47 e-mail: ics@thu.de www.thu.de/ics |

| **BUSINESS INFORMATION SYSTEMS (WF) B. Sc.** | Conceive, develop and implement information systems and business processes, helping to shape digital transformation in companies. |
| **Starts:** | winter/summer semester |
| **Jointly with:** | Neu-Ulm University of Applied Sciences |
| **Contact:** | +49 (0)731 50-2 86 47 e-mail: wf@thu.de www.thu.de/wf |

| **DATA SCIENCE IN MEDICINE B. Sc.** | Use the growing quantities of healthcare data and acquire new knowledge, as well as managing complex information systems. |
| **Starts:** | winter/summer semester |
| **Contact:** | +49 (0)731 50-2 86 47 e-mail: dsm@thu.de www.thu.de/dsm |

| **HEALTH INFORMATION MANAGEMENT B. Sc.** | Organizing and managing patient and healthcare data efficiently, diagnostic processes, optimizing therapy and patient care. |
| **Starts:** | winter/summer semester |
| **Jointly with:** | Neu-Ulm University of Applied Sciences |
| **Contact:** | +49 (0)731 50-2 86 47 e-mail: ig@thu.de, www.thu.de/ig |

| **COMPUTATIONAL SCIENCE AND ENGINEERING (CSE) B. Sc.** | Mathematical modeling and simulation in diverse applications in engineering, computer science and the life sciences. Joint, interdisciplinary program with Ulm University. |
| **Starts:** | winter semester |
| **Jointly with:** | Ulm University |
| **Contact:** | +49 (0)731 50-1 68 14 e-mail: cse@thu.de, www.thu.de/cse |
YOUR INTERESTS

- Big Data
- Empathy
- Physics
- Implants
- Prosthetics
- Working with people
- Logical thinking
- Computers & IT
- Technophilia

YOUR TASKS

To work on technical advances in medicine, making treatments safer and therapies better. Using imaging techniques, intelligent medical products and modern data and patient management systems, you can help shape the healthcare of the future.

YOUR FUTURE CAREER

Whether in product development, quality assurance, product certification, product management, consulting or management – medical engineering and healthcare is a growing sector, offering engineers many exciting careers in industry, hospitals or care facilities.

“The conditions for studying here are almost ideal: small class sizes, motivated professors who have time for you, and a more open and personal atmosphere than at a ‘traditional’ university.”

Pia K. – THU graduate in Medical Engineering
Degree programs:
Healthcare and Medical Engineering

**MEDICAL ENGINEERING** B. Eng.
Developing and monitoring technology to help people, understanding the language of doctors, carrying out development tasks to a professional standard, patient safety, developing and providing support for medical components and products.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 86 47  
e-mail: mt@thu.de  
www.thu.de/mt

**HEALTH INFORMATION MANAGEMENT** B. Sc.
Organizing and managing patient and healthcare data efficiently, diagnostic processes, optimizing therapy and patient care by using IT and data protection.

**Starts:** winter/summer semester  
**Jointly with:** Neu-Ulm University of Applied Sciences  
**Contact:** +49 (0)731 50-2 86 47  
e-mail: ig@thu.de  
www.thu.de/ig

**DATA SCIENCE IN MEDICINE** B. Sc.
Use the growing quantities of healthcare data and acquire new knowledge, as well as managing complex information systems.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 86 47  
e-mail: dsm@thu.de  
www.thu.de/dsm

**COMPUTATIONAL SCIENCE AND ENGINEERING (CSE)** B. Sc.
Mathematical modeling and simulation in diverse applications in engineering, computer science and the life sciences. Joint, interdisciplinary program with Ulm University.

**Starts:** winter semester  
**Jointly with:** Ulm University  
**Contact:** +49 (0)731 50-1 68 14  
e-mail: cse@thu.de  
www.thu.de/cse
YOUR FUTURE CAREER

Electrical engineers have excellent career prospects in a wide range of areas: e.g. in the automotive industry, automation, energy management, transportation, aviation and logistics, as well as in mobile communications.

YOUR INTERESTS

Technically-minded

Computers & IT

Physics

Industry 4.0

e-Mobility

5G

Internet of Things

Mobile communications

Electronics

Smart Homes

YOUR TASKS

Controlling, automating and networking machines and systems. Transferring, storing or converting energy. Applications in Smart Homes, electro-mobility, environmental engineering or mobile communications. All these only work with electrical engineering and communications technology.

“I really like the friendly atmosphere at Ulm University of Applied Sciences. We all help each other and work together to come up with a solution.”

Florian P. – THU graduate in Electrical Engineering and Information Technology
Degree programs:

Electrical Engineering and Information Technology

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
B. Eng.
Generating electrical energy and distributing it intelligently, reliably operating transport systems, technical support for infrastructure in medicine, industry, transport, mobility and government agencies, as well as for communication networks.

Starts: winter/summer semester
Contact: +49 (0)731 50-2 81 81
e-mail: et@thu.de
www.thu.de/et

MECHATRONICS
B. Eng.
Designing systems with mechanical, electrical and electronic elements, computer and IT systems such as ABS and ESP, sensors for autonomous driving or industrial robots.

Starts: winter/summer semester
Contact: +49 (0)731 50-2 86 47
e-mail: mc@thu.de
www.thu.de/mc
"I particularly liked the holistic approach to the subject "Energy": from energy generation, through to distribution, conversion and use, as well as the option to choose your own specialization subjects."

Ulrich M. – THU graduate in Energy Systems Technology

YOUR INTERESTS

- Environment and nature
- Green energy
- Physics
- Carbon footprint
- English
- IT
- Business
- Digitalization

YOUR TASKS

Developing and implementing solutions for the energy transition, managing liberalized energy markets, introducing renewable energy technology and reducing the consumption of resources – this is your chance to help reconfigure our society into a sustainable, environmentally-friendly world.

YOUR FUTURE CAREER

There is a wide range of career opportunities open to energy experts: in industry, in environmental protection, at energy service providers, in public utility companies and planning offices, as well as in waste and recycling management.
Degree programs:  
**Energy and Environment**

### INTERNATIONAL ENERGY ECONOMICS B. Sc.
Cost-effective and efficient supply, distribution and management of energy. The degree program combines the subject areas energy technology, computer science and business administration, as well as incorporating a semester abroad.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 84 84  
e-mail: iew@thu.de  
www.thu.de/iew

### ENERGY SYSTEMS TECHNOLOGY B. Eng.
Understanding, managing and optimizing energy systems, planning and providing support for buildings and plant technology, reducing energy consumption and saving CO₂ by using solar thermal energy, photovoltaics, biomass, water and wind power.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 84 85  
e-mail: est@thu.de  
www.thu.de/est
"Business Administration on its own was to dry for me. But combined with Computer Science, the course is really interesting – as well as giving me access to fantastic job opportunities later on."
Jonas A. – THU student in Business Information Systems

YOUR TASKS
This interdisciplinary course combines commercial and technical knowledge. In times of increasing internationalization and globalization, you can offer products with the right resources, at the right price and the right location.

YOUR INTERESTS
- Business
- Finance
- Marketing & Sales
- Computers & IT
- Logical thinking
- Technophilia
- English

YOUR FUTURE CAREER
Graduates will find first-class career opportunities in manufacturing enterprises, in logistics and transportation, in the energy economy or in service companies, for example, in production, consulting, sales and IT.
Degree programs: Business and Manufacturing

**INTERNATIONAL ENERGY ECONOMICS** B. Sc.
Cost-effective and efficient supply, distribution and management of energy. The degree program combines the subject areas energy technology, computer science and business administration, as well as incorporating a semester abroad.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 84 84  
e-mail: iew@thu.de  
www.thu.de/iew

**BUSINESS INFORMATION SYSTEMS (WF)** B. Sc.
Conceive, develop and implement information systems and business processes, helping to shape digital transformation in companies.

**Starts:** winter/summer semester  
**Jointly with:** Neu-Ulm University of Applied Sciences  
**Contact:** +49 (0)731 50-2 86 47  
e-mail: wf@thu.de  
www.thu.de/wf

**INDUSTRIAL ENGINEERING LOGISTICS** B. Eng.
Connecting global production and logistics networks, optimizing corporate divisions, production processes, supply and process chains for industry, e-commerce and service providers.

**Starts:** winter/summer semester  
**Jointly with:** Neu-Ulm University of Applied Sciences  
**Contact:** +49 (0)731 50-2 84 66  
e-mail: wl@thu.de, www.thu.de/wl

**INDUSTRIAL ENGINEERING** B. Eng.
Analyzing the technical and economic aspects of complex problems in order to solve them with a multidisciplinary and networked approach.

**Starts:** winter/summer semester  
**Jointly with:** Neu-Ulm University of Applied Sciences  
**Contact:** +49 (0)731 50-2 84 66  
e-mail: wi@thu.de  
www.thu.de/wi

**PRODUCTION ENGINEERING AND ORGANIZATION** B. Eng.
Production processes, production planning, manufacturing processes, design and manufacturing engineering, management, factory planning, logistics and quality assurance.

**Starts:** winter/summer semester  
**Contact:** +49 (0)731 50-2 81 21  
e-mail: po@thu.de  
www.thu.de/po
YOUR INTERESTS

Internet  Programming  Media  2D/3D design
Communication  Apps  Video  Creativity

YOUR TASKS
Develop and produce solutions for digital communication and digital media. Here you can help shape and implement the future – in the form of films, graphic design, web design, animation, interactive media, apps and many other creative applications.

YOUR FUTURE CAREER
Graduates will find careers in many areas, e.g. in corporate communications, in marketing and design agencies, in media enterprises, publishing houses, film and audiovisual design, in marketing and in start-ups.

"I wanted to study something media-related. Videos, apps, web-based infotainment. At THU I can work on subjects which I find really exciting and diverse."
Carina Maria H. – THU graduate in Digital Media
Degree programs: Media and Design

DIGITAL MEDIA B. A.
Planning, designing and implementing communication media, incorporating content, formal and technical aspects – from 2D and 3D design, audiovisual media, through to media and programming techniques.

Starts: winter semester
Contact: +49 (0)731 50-2 81 65
e-mail: dm@thu.de
www.thu.de/dm
Combine an undergraduate degree and an apprenticeship in 9 semesters. This way, you can get 2 full qualifications at the same time: an IHK or HWK vocational qualification plus a Bachelor's degree.

**Qualification:** Bachelor of Engineering (B. Eng.), Bachelor of Science (B. Sc.), plus apprenticeship qualification

**Language:** German

**Course length:** 9–10 sem. (IHK/HWK vocational training + Bachelor's degree)

**Course start:** September 1

**Applications:** to THU partner companies 1 year before starting your studies

**Pre-requisites:** higher education entrance qualification / entrance qualification for a university of applied sciences, company contract

**More information:** www.thu.de/dual

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**COURSES OFFERING THE ULM MODEL**

- Electrical Engineering and Information Technology
- Energy Systems Technology
- Automotive Engineering
- Computer Science (10 sem.)
- Mechanical Engineering
- Mechatronics
- Medical Engineering
- Production Engineering and Organization
- Business Information Systems
- Industrial Engineering Production
- Industrial Engineering Logistics

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**CONTACT**

**Dual Study Program (SSC)**

Ulm University of Applied Sciences Student Services
Prittwitzstrasse 10, 89075 Ulm
Tel. +49 (0)731 50-2 81 25
dual@thu.de
Coordinator
Prof. Stephanus Faller
dual@thu.de
## Joint degree programs

### Degree programs in cooperation with other universities

<table>
<thead>
<tr>
<th>Course</th>
<th>Cooperation partner</th>
<th>Application and admission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Engineering</td>
<td>HNU</td>
<td><a href="http://www.hs-neu-ulm.de">www.hs-neu-ulm.de</a></td>
</tr>
<tr>
<td>Industrial Engineering / Logistics</td>
<td>HNU</td>
<td><a href="http://www.hs-neu-ulm.de">www.hs-neu-ulm.de</a></td>
</tr>
<tr>
<td>Business Information Systems</td>
<td>HNU</td>
<td><a href="http://www.thu.de/wf">www.thu.de/wf</a></td>
</tr>
<tr>
<td>Health Information Management</td>
<td>HNU</td>
<td><a href="http://www.thu.de/ig">www.thu.de/ig</a></td>
</tr>
<tr>
<td>Computer Science International Program (ICS)</td>
<td>Rose-Hulman</td>
<td><a href="http://www.thu.de/ics">www.thu.de/ics</a></td>
</tr>
<tr>
<td>Computational Science and Engineering (CSE)</td>
<td>Ulm</td>
<td><a href="http://www.uni-ulm.de/studium">www.uni-ulm.de/studium</a> (July 1 to September 30)</td>
</tr>
</tbody>
</table>
Why THU?
Why should you study at THU?

STUDY AT THE CUTTING EDGE
Enabling you to perfectly combine theory and practice: practical course components, project work, practical semesters and theses in cooperation with renowned companies from a wide range of industries.

The science-based higher education we offer has an excellent reputation. THU graduates are highly sought-after in business and industry and quickly find attractive and well-paid careers.

Good reasons for studying at THU
› Innovative degree programs
› Ideal conditions for studying
› Personal support
› High practical relevance
› Excellent job prospects

ADVANTAGES OF STUDYING AT THU
› Small classes instead of anonymity
› Face-to-face contact with teaching staff
› Practically-oriented courses
› Equivalent qualifications
› High starting salaries
› Doctoral degrees are also possible
Bachelor's – and then what?
Master's Degree Programs at THU

THE RIGHT MASTER'S FOR EVERY BACHELOR'S
THU offers a broad range of forward-looking, innovative Master's degree programs. Thanks to diverse joint research activities with universities, you can also do your doctoral degree at THU.

MASTER'S DEGREE PROGRAMS AT THU
› Computational Science and Engineering
› Electrical Energy Systems and Electromobility
› Information Systems
› Medical Devices – Research and Development
› Sustainable Energy Competence
› Systems Engineering and Management
› Systems Engineering and Management (International Program)

Apply for a Master's degree program:
www.thu.de/master

CONTACT
Master's Degree Programs
Ulm University of Applied Sciences
Student Services (SSC)
Prittwitzstrasse 10, 89075 Ulm
Tel.: +49 (0)731 50-2 80 26
e-mail: master@thu.de

Find out more about Master's degree programs in our "Master" flyer.
Student Advisory Service

Help with Choosing Your Degree Program

CENTRAL HELP POINT FOR ADVICE ON
CHOOSING A COURSE AND STUDYING
› Individual advice on choosing a course and reorientation
› Advice on our course offer and careers
› Individual information for schools and teachers
› Help point for individual advice on planning and organizing your studies

CONTACT
Student Advisory Service
Tel. +49 (0)731 50-28067
Prittwitzstrasse 10, Room E09b
studienberatung@thu.de
www.thu.de/studienberatung

HELP WITH DECIDING
WHAT TO STUDY
› BEST careers and course orientation program
  www.bw-best.de
› MINToring: Experienced THU students help you decide what to study
  www.suedwestmetall-macht-bildung.de/projekte/projekt/mintoring.html
› THU Degree Information Day:
  www.thu.de/studieninfotag
TO A BACHELOR’S STUDY PLACE
IN A FEW SIMPLE STEPS

1. Register on hochschulstart.de
2. Fill out the online application
3. Submit hard copy of application documents (on paper)
4. Accept your admission offer on hochschulstart.de
5. Registration/enrollment

BACHELOR’S APPLICATION DEADLINES
› Summer semester: January 15 (lectures start mid-March)
› Winter semester: July 15 (lectures start beginning of October)
Preparatory courses for the degree programs start two weeks before the semester starts.

APPLICATIONS FOR COMPUTATIONAL SCIENCE AND ENGINEERING (CSE)
› Online application and enrollment via www.uni-ulm.de/studium

CONTACT
Student Services (SSC)
Prittwitzstrasse 10, Serviceflur
89075 Ulm
ssc@thu.de
Tel. +49 (0)731 50-28025
www.thu.de/ssc
Living in Ulm
The dynamic city on the Danube

When people hear the name Ulm, they think first of the highest church spire in the world, the River Danube, basketball, Albert Einstein and the motorway to Munich. The university town of Ulm is perfect for all those who want to enjoy their life and leisure time in parallel to their studies. Together, the diverse and lively twin cities of Ulm and Neu-Ulm on either side of the Danube have 180,000 inhabitants. All kinds of cultural and leisure activities can be reached easily on foot, by bike or with the tram. The city also has much to offer in addition to more than a thousand years of history and an abundance of romantic flair: hip-hop concerts, theaters, pubs, clubs and cinemas, top sporting events and all kinds of outdoor activities – Ulm has something for everyone.
Study in a green oasis in the heart of the city. In Ulm there's so much to experience!
Find out more about your THU degree program at:
www.thu.de

Like us on Facebook.
Follow us on Instagram.
Subscribe to our Youtube channel.

7-SEMESTER BACHELOR'S • ELECTRICAL ENGINEERING • SMALL CLASSES • ENERGY • AN AWESOME CITY • MECHANICAL ENGINEERING • FASCINATING TECHNOLOGY • COMPUTER SCIENCE • CLOSE TIES TO INDUSTRY • DIGITAL MEDIA • PROJECT WORK • MEDICAL ENGINEERING • PRACTICAL RELEVANCE • MASTER'S • TOP JOB OPPORTUNITIES • MOBILITY • MODERN CAMPUS • COMMERCIAL CONTACTS