

This practice-oriented Master's degree program provides you with a comprehensive education in areas such as video and audio processing, computer graphics, virtual reality, mobile computing and much more. The program is designed to equip students with the skills they need to design and implement breakthrough technologies that are transforming the way we communicate and interact.

Communications and multimedia technologies have experienced rapid growth over the last few years and have attained high economic importance worldwide. This progress is mainly driven by theoretical achievements based on highly complex mathematical concepts and algorithms, and by the application of modern abstract methods. Numerous examples can be found in fields such as digital speech, audio and video coding, digital transmission and communication networks.

In many cases, small groups of young researchers with outstanding intellectual and creative abilities combine their efforts and drive technical progress to market success. With this in mind, CME aims to provide you with a solid basis for achieving your individual goals. The four-semester curriculum starts in the winter semester and includes a thesis which is written over a six-month period.

During the first two semesters, the focus is on broadening and deepening your basic theoretical knowledge and establishing clear links with its application in communication and multimedia. The third semester offers ample opportunity to pursue individual interests by choosing from a broad spectrum of elective modules. Finally, the Master's thesis allows you to apply the knowledge you have gained to highly topical challenges in research and development.

All modules are taught in English and do not require prior knowledge of German. Nevertheless, acquiring knowledge of German is essential in order to open the door to a career in the local area. German language courses are therefore an important component of the CME curriculum.

With Germany being one of the most productive industrial economies, engineers are always in high demand. Demographic developments and the ever-growing demand for young graduates familiar with the latest technologies in communications and multimedia result in plenty of job openings with attractive salaries for CME graduates. Aside from traditional employers in the communication industry, CME students can expect to find numerous opportunities in industries whose competitiveness greatly depends on embedded information technology, such as medical technology, energy systems ("smart grids") or the automotive industry. The Nuremberg Metropolitan Region also has many major players in all of these fields.

1st semester

2nd semester:

3rd semester:

4th semester:

Essential information:

Prerequisite knowledge

15.07.

The application and admission procedure follows two separate deadlines. FAU students and students who do not need a visa should follow the instructions for deadline 2.

The first deadline in March applies to international students who have to apply for a visa. Applicants should apply via the campo online application portal for Master's degree programs of Friedrich-Alexander Universität Erlangen-Nürnberg (available after February 8) and upload scanned copies of the following documents:

In order to apply, you must have achieved a grade of 2.5 or better in accordance with the German grading system in your Bachelor's degree (please use the modified Bavarian formula for calculation). There is no application fee. German language knowledge is not required.

Selected applicants will be invited for personal or video interview. The interview takes approximately 30 minutes and serves to assess the applicant's ability for successfully completing the CME program. After the screening process, you will be informed whether you have been selected for admission to the CME program. Please apply via the campo online application portal for Master's degree programs of Friedrich-Alexander Universität Erlangen-Nürnberg. Selected applicants will be invited for personal or video interview. The interview takes approximately 30 minutes and serves to assess the applicant's ability for successfully completing the CME program. After the screening process, you will be informed whether you have been selected for admission to the CME program via campo. Our Student Advice and Career Service (IBZ) is the central point of contact for all questions about studying and starting a degree programme. Our Student Service Centres and subject advisors support you in planning your studies.

Degree: Master of Science
Duration of studies in semester: 4
Start of degree program: Winter semester
Study location: Erlangen
Number of students: 1-50
Subject group: Engineering sciences
Special ways to study: International degree program, Part-time degree program
Teaching language: completely in English
Admission Requirements: Qualification assessment
Admission requirements (first semester): Qualification assessment
Application deadline winter semester: 15.07.
Content-related admission requirements: The application and admission procedure follows two separate deadlines. FAU students and students who do not need a visa should follow the instructions for deadline 2. The first deadline in March applies to international students who have to apply for a visa. Applicants should apply via the campo online application portal for Master's degree programs of Friedrich-Alexander Universität Erlangen-Nürnberg (available after February 8) and upload scanned copies of the following documents:

Curriculum vitae (CV) including a passport picture (necessary for identification in online interviews)
Required CME application form (download)
Secondary school leaving certificate and university entrance certificate (certified English or German version)
Bachelor's degree and academic transcripts (certified English or German version)
TOEFL score report (minimum score IBT 80, PBT 547, CBT 210) or other proof of proficiency in English (for instance IELTS 5.5, level B2 of the Common European Framework of Reference for Languages, or Medium of Instruction certificate)
APS certificate (for applications from China, Vietnam and India)
GRE test results (if any)
Certificates for German language courses or tests (optional)
Letters of recommendation from two of your academic teachers that know you well (optional)

In order to apply, you must have achieved a grade of 2.5 or better in accordance with the German grading system in your Bachelor's degree (please use the modified Bavarian formula for calculation). There is no application fee. German language knowledge is not required.

Selected applicants will be invited for personal or video interview. The interview takes approximately 30 minutes and serves to assess the applicant's ability for successfully completing the CME program. After the screening process, you will be informed whether you have been selected for admission to the CME program.

Please apply via the campo online application portal for Master's degree programs of Friedrich-Alexander Universität Erlangen-Nürnberg.

Selected applicants will be invited for personal or video interview. The interview takes approximately 30 minutes and serves to assess the applicant's ability for successfully completing the CME program. After the screening process, you will be informed whether you have been selected for admission to the CME program via campo.

German language skills for international applicants: No DSH, English (level B2, CEFR)