



Friedrich-Alexander-Universität  
Erlangen-Nürnberg

Master

# Advanced Materials and Processes



[map.tf.fau.de](http://map.tf.fau.de)



**map**

advanced materials  
and processes

## PROGRAM

### Advanced Materials and Processes

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## PROGRAM DURATION

Master of Science: 4 semesters

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## ADMISSION REQUIREMENTS

- > Bachelor's degree in Chemical and Biological Engineering, Materials Science and Engineering or related subjects
  - > CEFR level B2 or equivalent
  - > Desire to study in an international and interdisciplinary program
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## CAREER PROSPECTS

Global companies, small & medium enterprises, start-ups, top-level research institutes, doctoral studies, academic career

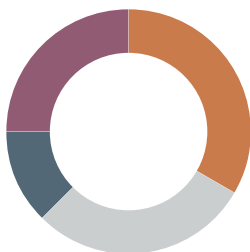
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## INDIVIDUAL STUDYPLAN

Individually tailored curriculum, choice of two Focal Subjects, free elective course, scientific skills, possibility for research or industry-related internship

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## SUBJECTS IN MASTER STUDY



- Interdisciplinary Foundation (partly individually allocated)
- Focal Subjects
- Research oriented, practical work
- Thesis

## A MASTER'S PROGRAM FOR ENGINEERS OF THE FUTURE

MAP – Advanced Materials and Processes combines Materials Science with Chemical and Biological Engineering to drive technological innovation. It is characterized by its international, interdisciplinary and highly selective character and offers cutting-edge research possibilities directly in the involved institutes already at the master's level. The fundamental idea underpinning MAP is that breakthroughs in modern technology require the design of novel materials, which, in turn, necessitate new processes. MAP therefore unites these two fields to create a unique study experience and to provide an excellent foundation for innovations in four focal subject areas:

- > Advanced Processes
- > Biomaterials and Bioprocessing
- > Computational Materials Science and Process Simulation
- > Nanomaterials and Nanotechnology