



## Academic Program

The Munich Summer School of Applied Sciences embraces in-depth study of engineering and business topics, integrating green issues with a focus on sustainability. **The courses focus on practical application using state-of-the-art technology and teaching methods.**

The program is intended for advanced Bachelor students in Mechanical Engineering, Automotive Engineering, Electrical Engineering, Industrial Engineering and Business Studies from Germany and abroad.

The summer school is a five-week program. International students participate in an intensive German language and culture course in the first week and continue these studies part-time throughout the program.

Students select two credit courses, which are taught in English by multi-national teams of two or three renowned lecturers from Munich University of Applied Sciences, California Polytechnic State University (USA) and the Strascheg Center for Entrepreneurship.

Each course covers a minimum of 40 teaching contact hours, including laboratory experiments and simulations. The academic program also includes a number of relevant field trips. You will **earn 4 ECTS credits (or 3 US credits) for each course.** See our website for detailed course descriptions.

## Courses

1st week 12.-16.07.2010	<b>German Language and Culture Course</b>	
	<ul style="list-style-type: none"> <li>Overview of most important German phrases and grammatical structures</li> <li>Vocabulary for day-to-day situations in Germany</li> <li>Ability to communicate and read in German</li> <li>Basic elements of German culture and its historical roots</li> <li>The impact of culture on intercultural behavior</li> <li>Field trips to the White Rose memorial site and Dachau concentration camp</li> </ul>	
2nd/3rd week 19.-30.07.2010	<b>Automotive Mechatronics</b>	<b>International Management</b>
	<ul style="list-style-type: none"> <li>Simulation and control of mechatronic systems</li> <li>Modelling and simulation of wheel slip control systems</li> <li>Simulink modeling of automotive mechatronic systems</li> <li>Case studies in Sustainable Automotive Technology systems</li> </ul>	<ul style="list-style-type: none"> <li>International management framework based on social responsibility, ethical leadership and sustainable strategy</li> <li>Market entry options</li> <li>Mergers &amp; acquisitions</li> <li>International marketing and sales management</li> </ul>
4th/5th week 02.-13.08.2010	<b>Design of Lightweight Structures</b>	<b>Innovation and Entrepreneurship for Green Technology</b>
	<ul style="list-style-type: none"> <li>Weight and energy-efficiency</li> <li>Machine and structural design</li> <li>Metal and composite materials</li> <li>Analytical stress and strain calculation</li> <li>Thin-walled structures</li> <li>Introduction to and use of ABAQUS</li> </ul>	<ul style="list-style-type: none"> <li>Entrepreneurship and entrepreneurial spirit in engineering</li> <li>Implementation of business models</li> <li>Development and growth of the enterprise</li> <li>Interdisciplinary teamwork</li> </ul>

## Cultural Program

A broad and attractive cultural program makes your stay an unforgettable experience. The program includes a guided tour of Munich, a field trip to the BMW factory, a trip to the beautiful Herrenchiemsee New Palace on an island in Lake Chiemsee and other excursions to cultural and historical sites around Munich, as well as receptions and parties.

Munich University of Applied Sciences provides professional assistance for all participants. Bilingual student tutors support you in your daily life. Students will be accommodated in a city hostel close to the university and the historic downtown (breakfast included).

### Requirements

The summer school is designed for advanced Engineering and Business students (please also refer to the prerequisites specified in the course descriptions). You must provide evidence of a good level of English (at least level B2 in the CEFR, TOEFL iBT 70 or equivalent, or mother tongue). A letter of motivation and a transcript showing your most recent grade point average are also expected.

### Fees

The program fee of € 2,490 covers tuition for the German language and culture class, two subject courses, the cultural and social program and accommodation (incl. breakfast). The tuition fee must be paid by April 15, 2010. Scholarships are available. Please check our website for more details.

»I would recommend this program to anyone. I had the time of my life.«

Eric, Pennsylvania State University

## Study in Munich!

Munich is one of the leading economic, technical and scientific centers in Germany. Companies including Siemens and BMW have their headquarters in the city. Other global players such as Apple and Microsoft have their German branch offices here and benefit from our **central location in the heart of Europe**.

The historic city of Munich is 850 years old. The quality of life offered by the Bavarian capital ranks among the best in the world. It is a vibrant center of **cultural activity** – a city of theater and music, literature, film, museums and festivals. We are also situated close to the mountains, with opportunities for climbing, hiking or mountain-biking – the outdoor activities available are almost unlimited. Munich and the surrounding area are well known for its high standard of living in general.

Come and experience it for yourself, and enjoy your stay in one of Germany's most **beautiful and safest** cities!

### Application

Deadline for application is **March 31, 2010**. The application form can be downloaded at [www.hm.edu/summerschool](http://www.hm.edu/summerschool). Please send it to the Munich University of Applied Sciences, either via email ([summerschool@hm.edu](mailto:summerschool@hm.edu)), via fax (+49 89 1265 1472) or post to Munich University of Applied Sciences (find our contact details at the back of the brochure).

## BaCaTeC Summer School 2010

Munich University of Applied Sciences was founded in 1971. Today it is the largest University of Applied Sciences in Bavaria and the second largest in Germany. It maintains excellent contacts with companies and businesses in and around Munich.

## Contact

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## BaCaTeC Summer School 2010

# Munich Summer School of Applied Sciences

**July 12 – August 13, 2010  
in Munich Germany**

## Engineering for Sustainability

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