

## Press release

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### EFCE Bologna Recommendations

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### EFCE Recommendations for Chemical Engineering Education in a Bologna Two Cycle Degree System

In September 2003 the European Federation of Chemical Engineering (EFCE) published a statement on the Bologna Process, in which it welcomes and supports the aims of the Bologna Declaration. One of these aims is the adoption of an easily readable and comparable system of higher education, essentially based on two main cycles of study, as well as the development of comparable criteria and methodologies, particularly with regard to curricula development, inter-institution cooperation and mobility schemes.

As a follow-up of this statement, the EFCE Working Party on Education prepared an update of the recommendations for the core curriculum for chemical engineering studies, published previously in 1994/2000, which was approved by the EFCE Executive Board in July 2005. The update takes into account recent developments in study organization, curricula accreditation guidelines, and science and engineering. The full text of the EFCE Bologna Recommendations can be downloaded from the EFCE website at [www.efce.info](http://www.efce.info).

The EFCE Bologna Recommendations cover learning outcomes (general chemical engineering skills and knowledge, transferable skills) and how to achieve the learning outcomes (core curriculum, teaching and learning, industrial experience, review of the educational process). The outcomes and curricula are defined so that on the one hand they show a general understanding of what chemical engineers should know in the foreseeable future, and what capabilities they should have. On the other hand the recommendations reflect current developments in the discipline, e.g. broadening of the scientific basis to include molecular biology, and of the applications to cover chemical product engineering and material sciences.

The core curricula proposed here cover only approx. two thirds of a first and a second level degree course leaving higher education institutions freed to develop further innovative concepts for their study programmes.

EFCE hopes that the EFCE Bologna Recommendations will help to facilitate one of the goals of the Bologna process: more and simpler exchange in Europe both during and after higher education studies.