

Applied Computer Science at the University of Dortmund

International Education Week
The University of Montana
November 13-17, 2000

Matthias Book

The CS Department

- ◆ ~3,000 students, ~200 faculty members, ~25 professors
- ◆ 11 chairs
 - ◆ Automata and Switching Theory
 - ◆ Efficient Algorithms and Complexity Theory
 - ◆ Operating Systems and Computer Architecture
 - ◆ Networks and Distributed Systems, Performance Evaluation
 - ◆ Programming Systems and Compiler Architecture
 - ◆ Information Systems
 - ◆ Computer Graphics
 - ◆ Artificial Intelligence
 - ◆ Software Technology
 - ◆ Systems Analysis
 - ◆ Embedded System Design, Didactics of Computer Science

CS Curricula

- ◆ Core Computer Science
 - plus a minor
- ◆ Applied Computer Science w/ focus on
 - Electrical Engineering
 - Chemical Engineering
 - Mechanical Engineering
 - Construction
- ◆ CS for High School Teachers

Applied Computer Science

- ◆ since 1984 - then pilot in Germany
- ◆ less theory, more practice-oriented
- ◆ interdisciplinary curriculum
 - computer science
 - engineering (electr, chem, mech or constr)
 - mathematics
 - economics

Types of Classes and Exams

<ul style="list-style-type: none">◆ Classes<ul style="list-style-type: none">■ lectures (7-700 students)■ practice groups (3-30 students)■ seminars (3-30)■ labs (teams of 2-6)■ project groups (teams of 8-12)	<ul style="list-style-type: none">◆ Exams<ul style="list-style-type: none">■ written exams (fixed date in break)■ oral exams (indiv. scheduled)■ certificates (pass/fail)■ thesis
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Studying in Germany

- ◆ no tuition, just \$100 fee per semester
 - no registration for classes, no credits
- ◆ less pressure built into system
 - most assignments voluntary
 - oral exams individually scheduled
 - lots of class options
 - > students have to motivate themselves