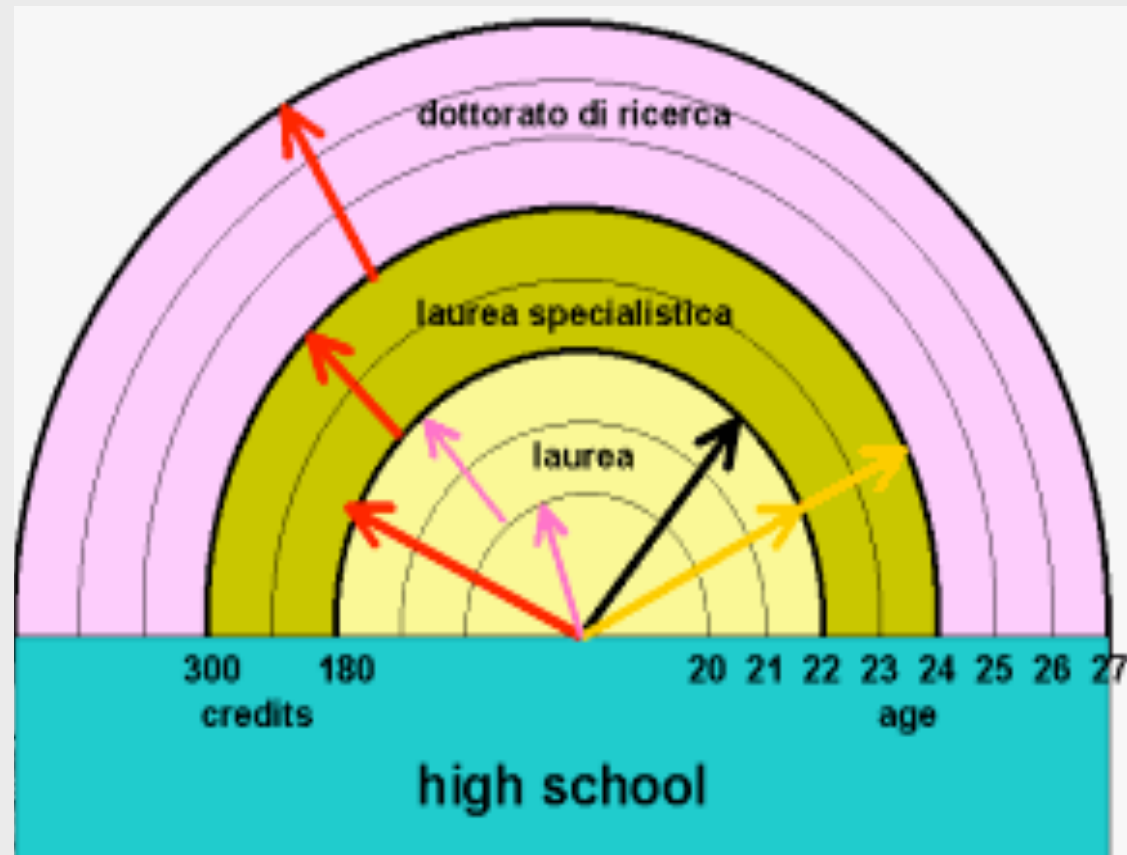


# Bachelor in Applied Computer Science 2009/10

Alessandro Artale and Johann Gamper

Free University of Bozen-Bolzano

# Reform of University Studies



# Overview of Study Program

- Bachelor in Applied Computer Science (180 CP)

Languages (12 CP)	Ethics (4 CP)	General Skills (8 CP)	Free Choice or Internship (12 CP)	Internship and Bachelor Report (12 CP)
Mathematics and Physics (24 CP)		Basic Economics and Business (8 CP)		
Basic/Applied/Advanced Computer science (100 CP)				

# Study Plan

Semester 1		CP	Semester 2		CP
Analysis	8		Algebra	4	
Introduction to Programming	8		Programming Project	8	
Computer Systems Architecture	4		Operating Systems	8	
Introduction to Economics and Business	4		Data Structures and Algorithms	8	
English	4		German 1/Italian 1	4	
Semester 3		CP	Semester 4		CP
Probability Theory and Statistics	4		Mathematical Methods for Physics	4	
Logic	4		Compiler	4	
Distributed Systems	4		Database Management Systems	4	
Formal Languages	4		Programming Paradigms	4	
Software Engineering	4		Internet Technologies	4	
Introduction to Databases	8		Software Engineering Project	8	
German 2/Italian 2	4		Business Administration	4	
Semester 5		CP	Semester 6		CP
Business Information Systems	4		Stream: Lecture 4	4	
Stream: Lecture 1	4		Internship and B.Sc. Final Report	12	
Stream: Lecture 2	4		Ethics	4	
Stream: Lecture 3	4		General Skills: Lecture 1	4	
Free Choice: Lectures or Internship	12		General Skills: Lecture 2	4	

# Streams

- Specialization in a Stream (4 courses)
  - Databases (DB)
  - Information and Knowledge Management (IKM)
  - Software Engineering (SE)
  - Web Technologies (WT)

Course	WT	SE	IKM	DB
Computational Linguistics	X		X	
Formal Methods			X	
Internet Technologies	X	X		X
Knowledge Representation	X		X	X
Software Architectures	X	X		
Software Metrics		X		
Database Management Systems				X
Etc.				

# General Skills

- Complementary courses (2 courses)
  - Presentation and Communication
  - Project Management
  - Team Work Management
  - Technology Assessment
  - Scientific Writing

# Internships

- 2 Internships: each 12 CP
  - Optional internship in free choice of student (5<sup>th</sup> semester)
  - Compulsory internship for the B.Sc. Thesis (6<sup>th</sup> semester)
- Internships can be done in
  - Companies
  - Faculty

# Language Model

<b>English</b> <ul style="list-style-type: none"><li>• Computer Science</li><li>• Mathematics and Physics</li><li>• Economics and Business</li></ul>			<b>German/Italian</b> <ul style="list-style-type: none"><li>• General Skills</li><li>• (Internship, Free Choice)</li></ul>		
Year 1		Year 2		Year 3	

- Language courses in the study program
- 1<sup>st</sup> year exercises are in 3 languages

# Working Students

- 4-year program for working students
- Well-defined study plan
- Alternates between periods at FUB and company
- More information
  - 29<sup>th</sup> of September at 14:00 in D003
  - Prof. Barbara Russo (barbara.russo@inf.unibz.it)

# Characteristics

- Trilingual with a focus on **English** (80%)
- **Practice-oriented**: 2 Internships
- Combination of **theory** and **practice**
- **Specialization** in streams

# Two Important Steps

- **Assessment test in Mathematics**
  - **Friday, October 9<sup>th</sup> from 14:00-17:00, room D101**  
(<http://www.unibz.it/en/inf/progs/bacs/AssessmentTest.aspx>)
  - Mathematics support course with test in 1<sup>st</sup> semester
  - Not passing this test **blocks** you to take exams of the 2<sup>nd</sup> semester
- **English language exam**
  - Do the exam as early as possible (**end of 1<sup>st</sup> semester**)
  - Not passing the English exam **blocks** exams of the 2<sup>nd</sup> year

# Final Recommendation

- **Start immediately** (today!) and work hard
- **Attend** the lectures and exercises
- **Interact** and socialize with other students and with the faculty (professors and secretaries)

# Additional Information

- Faculty of Computer Science

Piazza Università, 1

Web: <http://www.inf.unibz.it>

Email: [computer.science@unibz.it](mailto:computer.science@unibz.it)

- Head of Faculty Secretariat

- Dott. Nadine Mair ([nadine.mair@unibz.it](mailto:nadine.mair@unibz.it))

- Regolamento didattico / Studiengangsregelung