

Retreat at Spitzingsee, April 4th - 6th, 2011

The Bioinformatics Program at LMU/TUM

Overview

- Introduction
- General Information
- Structure of the Bachelor Program
- Structure of the Master Program
- Administrative Details: How to handle lectures and exams in TUMonline

Overview over the Bioinformatics Program

- Program startet in 2000
- Last Revision: 2007
- Offered jointly by LMU and TUM
- Bachelor: 6 Semester (180 ECTS)
- Master: 4 Semester (120 ECTS)
- Faculties involved: Computer Science LMU and TUM, WZW (Life Sciences TUM), Biology and Biochemistry of LMU

Bachelor Program

Lectures:

- Computer Science incl. Databases 24 SWS / 32 ECTS
- Mathematics 23 SWS / 30 ECTS
- Bioinformatics 23 SWS / 33 ECTS
- Biology/Chemistry/Biochemistry 15 SWS / 21 ECTS

Lab Courses:

- Bioinformatics + Molecular Biology 14+10 SWS / 30 ECTS

Seminars:

- Bioinformatics: 4 SWS / 6 ECTS

Optional Courses: 12 ECTS

Thesis: 15 ECTS

Total: 180 ECTS

Master Program

Mandatory:

- Lab Course: 10 SWS / 12 ECTS

Optional Courses:

- Biology: at least 18 ECTS
- Computer Science: at least 18 ECTS
- Bioinformatics: at least 24 ECTS
- non-typed: 18 ECTS

Thesis: 30 ECTS

Total: 120 ECTS

Some Numbers

- Beginners so far: appr. 670 (317 Bachelor + 354 Diploma)
- Diploma closed in 2007
- Graduates (started before 2007):
 - 92 Bachelor Students
 - 118 Diploma Students
- Graduation Ratio: slightly above 50 %
- Increased graduation ratio by introduction of selection with interviews in 2002/03

Administrational Details

- Catalog of confirmed modules on the web
- New lectures or modified ones have to be confirmed by the BIPA (Bioinformatics Examination Board)
- To be listed by TUMonline:
 - Module Description: Prerequisites, expected outcome, techniques
 - Two different „objects“ for every lecture:
 - lecture object: To inform and communicate with the students about the lecture
 - examination object: To register the students and to enter the grades

Administrational Details

- Module, lecture and examination templates and objects are created by the central faculty service (SB-S) automatically for available lectures, upon requests for (and material about) new lectures
- Examiners are asked to confirm the room/date/... details upon creation for lecture or examination
- Students should register for the exams according to the published dead lines
- Co-Examiners should register and apply for administration permission (necessary for everybody except professors)
- (Co-)Examiners enter the grades, make them public, print out the protocol and send the protocol with a professors signature to the Schriftführer
- Schriftführer sets exam state to valid, i.e. transmit the grade to the Examination Office of TUM