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C. For graduates with a BSc in Computer Science:

1. Core-Programme (42 ECTS)

Compulsory modules: Computational Concepts in Natural Science Part 1 (PM-CCNW1, 12 ECTS)

- . CO-AST1 Computational Concepts in Astronomy and Geosciences I (VO, 3 ECTS)
- . CO-PHY1 Computational Concepts in Physics I (VO, 3 ECTS)
- . CO-CHE1 Computational Concepts in Chemistry I (VO, 3 ECTS)
- . CO-BIO1 Computational Concepts in Biology I (VO, 3 ECTS)

+ 6 ECTS out of the Shell-Programme

Alternative group of compulsory modules: Basic and Advanced Courses in Mathematics (APMG 2c, 18 ECTS)

- . CO-MAT1 Introductory Courses in Mathematics I (VO 4 ECTS, UE 2 ECTS)
- . CO-MAT2 Introductory Courses in Mathematics II (VO 4 ECTS, UE 2 ECTS)
- . CO-MAT3 Advanced Courses in Mathematics (VO 3 ECTS, VO 3 ECTS) > 2.SEM

Group of compulsory modules: Computational Concepts in Natural Science Part 2 (PMG-CCNW2, 12 ECTS)

- . CO-AST2 Computational Concepts in Astronomy and Geosciences II (VO 3 ECTS)
- . CO-PHY2 Computational Concepts in Physics II (VO 3 ECTS)
- . CO-CHE2 Computational Concepts in Chemistry II (VO 3 ECTS)
- . CO-BIO2 Computational Concepts in Biology II (VO 3 ECTS)
- + CO-MAT3
- + 12 ECTS out of the Shell-Programme

2. Shell-Programme (48 ECTS)

Compulsory modules: Shell-focus (PM S-SP, 24 ECTS) (Deepening in one of the following 6 areas)

- . Focus Mathematics
- . Focus Computer Science
- . Focus Astronomy
- . Focus Physics
- . Focus Chemistry
- . Focus Biology

. Compulsory shell supplement (PM S-E, 24 ECTS)(Courses from at least 3 of the 6 following areas, which cannot

be the same as the shell-focus)

- . Focus Mathematics
- . Focus Computer Science
- . Focus Astronomy
- . Focus Physics
- . Focus Chemistry
- . Focus Biology

+ Graduation of the open 36 ECTS (48-18=30) out of the Shell-Programme

3. Master Thesis (27 ECTS)

4. Defense (Master's Examination) (3 ECTS)

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3.SEM

1.SEM

2.SEM