

Study Card

Master Geomatik
HCU Hamburg

Module-No.	Semester	Teaching staff	Module-coordinator (designated each sem.)
Geo_M101	1	Prof. Dr.-Ing. Delf Egge, Dipl.-Ing. Kay Zobel	Prof. Dr.-Ing. Volker Böder

Module name	Subject areas	Duration/sem	Frequency of offering	Type (C/CE/E)	Emphasis in overall grade / %
Data Processing	Hydrography	1 Semester	each WiSe	C	4,16 %

CP (according to ECTS)	Workload / h.	Self-study / h.	Contact time / h.	Contact hours / week (SWS)	Type of examination
5CP	150	94	56	4 + 0	oral (graded)

Previous knowledge / Conditions for participation (in form and content)

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Educational aims of the module (Learning objectives/results, skills)

The students acquire deeper data processing knowledge in the area of hard- and software. They are enabled to solve interfacing problems between data processing instruments and geodetic instruments. The foundations of Caris HIPS / SIPS are treated.

Course contents

Interface Technology:

Codes (BCD, ASCII, EBCDIC).

Interfacing techniques (BCD, Centronics, IEC-Bus, RS 232 C). Mechanical, functional, electrical properties, hardware handshake, software handshake, interface testing instruments. Connecting different sensors to a personal computer.

Basics on Caris:

Vessel Configuration for Total Propagated Error, Project Setup and Data Conversion, Sensor Editing, Building Field Sheets, Sound Velocity Correction, Loading Tide, Merge Process, Creating Sun Illuminated Gridded Images, Swath Editing, Surface Cleaning, Subset Editing, BASE Surfaces, CUBE, Creation of Contours and Soundings, Data Export.

Teaching and learning methods

Taught seminars

Condition for awarding the ECTS-credits

Oral examination in Interface Technology

Additional Information

Latest update: 06/2011