

CHIANG MAI UNIVERSITY

FACULTY OF AGRICULTURE & GRADUATE SCHOOL

UNIVERSITÄT HOHENHEIM FAKULTÄT AGRARWISSENSCHAFTEN



Curriculum

Master of Science

Sustainable Agriculture and Integrated Watershed Management (SAIWAM)



September 2011

Contact:

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Published by Faculty of Agricultural Sciences Universität Hohenheim, 70593 Stuttgart, Germany

Print: Universität Hohenheim

This curriculum provides applicants and students as well as teaching and administrative staff with information about the M.Sc. programme "Sustainable Agriculture and Integrated Watershed Management" (SAIWAM). It includes general information on the programme, the application procedure, and the structure of the course.

The information presented reflects the current situation. Titles and contents of compulsory and optional modules are sometimes subject to change. Due to administrative reasons such changes can only be considered in printed materials with delay. For this reason all information is provided without liability.

For further information, please refer to the coordinator of the programme, Prof. Dr. K. Stahr, Universität Hohenheim (SFB 564) (<u>kstahr@uni-hohenheim.de</u>). For up-to-date module descriptions please refer to the web-pages at <u>www.uni-hohenheim.de/modulkatalog</u>. Time schedules and lecture halls of all courses offered at the Universität Hohenheim are displayed in the Course Catalogue of the Universität Hohenheim, available at the beginning of each semester at the local book store or online on the university's homepage: <u>www.uni-hohenheim.de</u>.

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The Master Programme "Sustainable Agriculture and Integrated Watershed Management" (SAIWAM)

Why study SAIWAM-Watersheds are of significant importance for the global ecosystems and are Master? characterised by a high degree of ethnic, cultural and ecological diversity. They span from small mountain catchments to transboundary river basins. Interdependencies between upstream and downstream agriculture and resource management pose particular challenges for the development of sustainable land use practices. High population growth, climate and land use change, and extraction of natural resources by a variety of actors are increasing the pressure on fragile watershed areas. In order to stop the downward spiral of resource degradation, landscape instability, reduced biodiversity, rural poverty and food insecurity, an interdisciplinary analysis and new approaches to sustainable agriculture and integrated watershed management are needed that identify sustainable land use practices, strengthen local institutions and knowledge systems, and increase the resilience of watershed ecosystems and rural livelihoods.

> The new master programme (starting summer semester 2009) jointly offered by Universität Hohenheim, Germany, and Chiang Mai University, Thailand seeks to lay the foundation for such integrated approaches in education and training. It addresses post-graduate students from Southeast and South Asia, Latin America and Africa, who want to deepen their knowledge of the complexity of:

- watershed agro-ecosystems
- sustainable agricultural practices and
- new pathways of integrated watershed management

Students from Europe, East Asia and North America with interdisciplinary and international interest are very welcome. Both universities have long-standing experience in research on sustainable agriculture and integrated watershed management and have developed an extensive network of partner universities and research organisations in the Southeast Asian region and beyond. Students will be enrolled as full degree students at both universities for the whole duration of the study programme.

Chiang Mai University (CMU), Thailand Founded in 1964, Chiang Mai University (CMU) is among the leading Thai universities in teaching and research in the agricultural science field. The university has nine international Master Degree programmes and features excellent facilities for study and living. Its campus offers a unique multicultural environment for more than 30.000 students and its adjacent mountains and tropical watersheds provide outstanding opportunities for field studies, socio-economic surveys and excursions.

CMU has the national research mandate for the region of northern Thailand. Furthermore, the university has been assigned to become one of the leading universities in research and teaching on agriculture and natural resource management in mountainous regions of Southeast Asia. As one of the major academic centres of the Greater Mekong Subregion (GMS), CMU is in an excellent position to attract students from South and Southeast Asia and to become a regional education hub for sustainable agriculture and integrated watershed management.

CMU's Faculty of Agriculture has an extensive network of cooperation in teaching and research comprising national organizations and international partners, such as the World Agroforestry Center (ICRAF) and many leading universities in the USA, Europe and Asia.

The University of Hohenheim (UHOH) Looking back at a history of nearly 250 years, Universität Hohenheim is one of Europe's leading universities in the field of agricultural sciences and natural resource management. Its 13 Master programmes in agriculture fulfil top standards, and its graduates are highly competitive in the international job market. Hohenheim is a relatively small university with approx. 6000 students. The campus, with the castle park and botanical garden, is one of the most beautiful in Germany and has a pleasant, open working atmosphere. All university facilities are within walking distance. There are additional leisure facilities such as the own sports centre, and a large number of cultural events. With several long-term interdisciplinary research programmes, such as the Thai-Vietnamese-German Collaborative Research Centre "Sustainable Land Use and Rural Development in Mountainous Regions of Southeast Asia" funded by the German Research Foundation (DFG) and the Sino-German research cooperation "Living Landscapes China" funded by the German Ministry of Education and Research (BMBF), the university combines highquality interdisciplinary research in the Greater Mekong Subregion (GMS) with excellent teaching and training in the field of sustainable agriculture and integrated watershed management.

- *Career Perspectives* With its interdisciplinary, team-oriented and intercultural approach, the study programme addresses a rapidly growing job market at the national and international level. Professionals with a profound expertise in key global issues, such as climate and land use change, resource conservation and high-value agricultural production, are in high demand. Jobs will be available in international research and development organizations working on sustainable agriculture, global environmental change, nature protection, and food security. National careers can be pursued, for instance, in land use planning, environmental impact assessment as well as teaching interdisciplinary approaches to land care and natural resource management.
- **Programme Design** The two-year Joint-Degree M.Sc. programme consists of four semesters, during which fifteen thematic modules and the Master Thesis have to be completed. The first two semesters, offering a broad interdisciplinary training, are to be completed at Chiang Mai University. The third semester, offered at the Universität Hohenheim, leads to a specialisation in one of three fields, namely
 - agricultural economics and social sciences
 - natural resource management and
 - animal production systems

Programme Design of the M.Sc. "Sustainable Agriculture and Integrated Watershed Management" (SAIWAM-Master)

Sem.	Modules
1	6 Compulsory modules
and	2 Semi-elective modules (two to choose out of four)
2	2 Elective modules
	1 Interdisciplinary Study Project
3	3 Semi-elective modules (three to choose out of at least six) according to the field of specialisation and
	1 Elective module
4	Master thesis

The master thesis will be jointly supervised by a German and Thai supervisor. It may be carried out at either university or at specific research sites in Southeast-Asia.

The full programme has an extent of 120 ECTS and is constructed by 4 semesters each with 30 ECTS. The language of instruction is English.

Modules in the first and second semester of the Joint-Degree Master Program "Integrated Watershed Management" (taught at CMU) (bold = compulsory modules, normal = semi-elective modules; at least two should be selected from the four modules offered.)

First semester, summer term	First	semester,	summer	term
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Preparation	Block 1	Block 2	Block 3	Block 4	Block 5
-	3101-510	4901-460	3703-420	4801-470	4403-510
Introduction	Soil, Water	Develop-	Sustainable	Sustainable	Processing
to Thai	and Forest	ment	Production	Livestock	and
Language	Resources	Policies and	of High	Production	Marketing
and Culture,		Economic	Value	Systems	of High
Excursions		Strategies	Crops		Value Food
					Products

Second semester, winter term

Block 6	Block 7	Block 8	Block 9	Block 10	
3802-450 Watershed Ecology and Agroeco- systems	4403-500 Renewable Energy Sources for Mountainou s Regions	3801-450 Integrated Watershed Modelling	4904-440 Economic Modelling and Policy Simulation	4901-450 Ethnic, Cultural, and Social Aspects of Watershed Develop- ment	- Semester Break and Preparation for Study in Hohenheim

Upon request of the students the examination board can allow to substitute up to two compulsory modules by modules from other international master programmes of Chiang Mai University. The elective modules can be chosen from all lists of semi-elective modules or from other international master programmes of Chiang Mai University or Universität Hohenheim.

Non-blocked courses to be selected from the International Master Programmes of Chiang Mai University, e.g.:

- 1. Agricultural Systems (offered by Faculty of Agriculture)
- 2. Sustainable Development (offered by Faculty of Social Sciences)
- 3. Environmental Management (offered by Faculty of Sciences)
- 4. Veterinary Public Health (jointly offered by the Faculties of Veterinary Medicine, CMU and FU Berlin)

Modules

6 credits based on the European Credit Transfer System (ECTS) are awarded for each module. This corresponds to a workload of 4 weekly contact hours per semester, totalling 56 contact hours per module, and in addition at least the same time for preparation at home, summing up to a total workload of about 140-180 hours for each module -, including the time for exam preparation. Modules consist of different forms of teaching (e.g. seminar, lecture, practical, excursion). More information about UHOH's modules can be found from page 14 onwards. A schedule of all modules taught in English at the Faculty of Agricultural Sciences at UHOH, including the exact dates of the block periods, is available at the Dean's Office.

The modules of the fields of specialisation at UHOH are:

	Compulsory modules	Block	Exam	Professor					
3101-520	Interdisciplinary study project "Scientific Methodologies for Integrated Research"	block 6	written	Stahr					
Semi-e	elective modules (3 to choose)	Block	Exam						
4202-440	Markets and Marketing of Organic Food	unblocked	written	Becker, T.					
4202-420	Microeconomics	unblocked	written	Becker, T.					
4303-470	Gender, Nutrition, and Right to Food	unblocked	written + ICA	Bellows					
4901-430	Rural Development Policy and Institutions	block 7	written	Zeller					
4201-410	Agricultural and Food Policy	block 8	written	Grethe					
4902-430	Food and Nutrition Security	block 10	written	Brockmeier					
	1 Elective module (free choice from all lists of all specialisations or other modules from general offer at UHOH) e.g. the following modules:								
4903-500	Policy Processes in Agriculture and Natural Resource Management	block 9	written	Birner					
4903-470	Qualitative Research Methods in Rural Development Studies	block 10	written	Birner					

Specialisation: Agricultural Economics and Social Sciences

ICA = in-course assessment

Specialisation: Natural Resource Management

	Compulsory modules	Block	Exam	Professor
3101-520	Interdisciplinary study project "Scientific Methodologies for Integrated Research"	block 6	written	Stahr
Semi-e	elective modules (3 to choose)	Block	Exam	Professor
3603-420	Crop Protection in Organic Farming	unblocked	written + ICA	Zebitz
3101-540	Soils, Vegetation, and Land- scapes of Southwest Germany	unblocked	oral	Stahr
3103-450	Spatial Data Analysis with GIS	block 7	written	Streck
3703-430	Crop – Environment Interactions	unblocked	oral	Wünsche
3801-430	Integrated Agricultural Production Systems	block 7	written	Cadisch
4403-460	Postharvest Technology of Food and Biobased Products	block 8	written	Joachim Müller
3802-420	Biodiversity, Plant and Animal Genetic Resources	block 8	written	Sauerborn
3101-460	Mapping Course: Soils and Vegetation	overlapping B7 / B8	oral + ICA	Stahr
	tive module (free choice from all li dules from general offer at UHOH)	·		
4903-500	Policy Processes in Agriculture and Natural Resource Management	block 9	written	Birner
4602-450	Food Safety and Drinking Water Quality	block 10	oral + ICA	Hölzle

ICA = in-course assessment

		Compulsory modules	Block	Exa	m Professor			
	3101-520	Interdisciplinary study projec "Scientific Methodologies for Integrated Research"	t block 6	writt	en Stahr			
	Semi-e	elective modules (3 to choose)	Block	Exa	m Professo			
	4303-480	Global Nutrition	unblocke	d writte	en Bellows			
	3801-430	Integrated Agricultural Production Systems	block 7	writte				
	4801-410	Genetic Resources and Animal Husbandry Systems	block 7	writt				
	3802-420	Biodiversity, Plant and Animal Genetic Resources	block 8	writt	en Sauerbori			
	4801-420	Promotion of Livestock in Tropical Environments	block 8	writte	en Valle Zára			
	4801-460	Organic Livestock Farming	block 10	writte	en Valle Zàra			
		ive module (free choice from all dules from general offer at UHO	H) e.g. the fo	llowing	modules:			
	4802-430	Integration of Aquaculture in Agricultural Farming Systems	block 9	writte				
	4903-470	Qualitative Research Methods in Rural Development Studies	n block 10	writt	en Zeller			
Course Catalogue	The Course Catalogue of Universität Hohenheim is available at the beginning of each Semester at the local book store or online at the university's homepage: <u>www.uni-hohenheim.de</u> . The courses can be located inside the course catalogue of Universität Hohenheim by the name of the lecturers responsible for the courses or by the number of the institute. Times and lecture rooms of all courses can be found, and a personal time-table can be worked out. Mind: several non-blocked modules within that catalogue consist of more than one course.							
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Credit Point System	than one cou The M.Sc. p result is exp A]. A score score of 1.0 with the gra In order to o		at of 120 cre s. The higher assing the co modules. Conumber of co the total number of co	logue co dits. The est score ompulson Credits a redit poi unber of	examination is 4.0 [grade ry modules, a re multiplied ints obtained. credit points			
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Credit Point System	than one course The M.Sc. presult is exp A]. A score score of 1.0 with the gra In order to a obtained in Grading outstanding very good performan	urse. programme has a total requirement pressed in grade points and grade of 3,0 [grade B] is required for p b) [grade D] for passing all other and points achieved to derive the calculate the grade point average all modules is divided by the tota Scale bg performance performance	at of 120 cre s. The higher assing the co modules. On number of co the total nu number of grades excellent very good	dits. The est score ompulson Credits a redit poi unber of credits c S G A B+	in be worked nsist of more e examination is 4.0 [grade ry modules, a re multiplied ints obtained. credit points ollected. <i>grade-points</i> 4,0 3,5			
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Specialisation: Animal Production Systems

Grade point average	The grade point average of all taken courses and the Master thesis must be at least B $(3,0)$ to be awarded with the Joint Degree Master.					
Credit Transfer Study and Examination Plan	The programme uses the European Credit Transfer System (ECTS). For all students that move from one university to the partner university the sending university has to provide an official transcript of records (signed and sealed) in English language: The transcripts of students will be sent directly from university to university. Students have to seek advice of one of the mentors of the programme on which elective modules are suitable for their individual profile. Until the end of the first semester of study the candidate must have the study and examination plan approved, in which all chosen modules and the specialisation are mentioned. The study and examination plan has to be signed by a mentor (see below) before it is handed in. Students submit their verified study plans to the CMU registration office. Registrations for modules at UHOH are forwarded to the examination office at UHOH. Exchanges of modules are the responsibility of the students. A module cannot be dropped after registration for examination.					
Mentoring	A personal mentor from the teaching staff is assigned to advise on appropriate profiles and support smooth and goal-oriented progress. The study and examination plan has to be signed by this mentor before it is handed in to the CMU examination office.					
	Mentor at UHOH is: Prof. Dr. K. Stahr, kstahr@uni-hohenheim.de					
Examinations	CMU and UHOH will designate for each obligatory module one module co- ordinator and a counterpart at the partner university. Both are responsible for running the module including examinations and assessments.					
	Examinations have to follow the examination regulations. If a student fails in an exam or withdraws from an exam and has to move to the partner university, both institutions are obliged to set up re-examinations.					
	Each module is examined upon completion. The examinations of the blocked modules are held at the end of the respective block period. Those for the unblocked modules are held in the two examination periods that follow the lectures (at UHOH week 6-8 and 12-14 in winter semester, week 29-31 and 40-41 in summer semester).					
	Students have to register for the examinations at CMU by contacting the co- ordinator of the respective module. At UHOH for each semester at the examination office during the time period announced (within this time period: blocked modules one week before exam at the latest!). Withdrawal on the first trial of each module examination is possible up to 7 days before the examination date. The examination will be postponed to the next possible examination period.					
	 The claim for examination expires if: a minimum of six examinations has not been passed by the end of the second semester at the latest an examination of the compulsory modules has not been passed by the end of the forth semester at the latest an examination of a semi-elective or elective modules has not been passed by the end of the sixth semester at the latest 					
	The claim for examinations does not expire, if the candidate cannot be held responsible for the failure to comply with the deadline. The students themselves are responsible for complying with these examination deadlines as well as all other regulations given in the examination regulations. The examination regulations and a leaflet on registration are distributed by					

UHOH's (https://www.uni-hohenheim.de/pruefung.html) and CMU's examination office or can be found on the URL http://www.uni-hohenheim.de/saiwam.

- *Master Thesis* The Master Thesis shall show that the candidate is able to work independently on a clearly defined and specific problem in the field of "Sustainable Agriculture and Integrated Watershed Management" within a fixed period of time by applying scientific methods. The exam consists of a written (paper) and an oral (defence) part. If the paper is awarded at least the grade very poor, the candidate has to defend the essential arguments, results and methods of the thesis in a colloquium of about 30 minutes. The written part of the Master Thesis has to be completed within a period of six months. It is usually written during the fourth semester. Thesis work includes a literature review, new and original data derived from field and laboratory work, a period of writing-up and, finally, a presentation.
- Language All modules are taught in English. However, foreign students are recommended to acquire German language knowledge for everyday life in Germany. Students whose mother tongue is not English are advised to attend accompanying courses in scientific English.

Students with German or Thai knowledge sufficient to follow a master course may also select modules taught in German or Thai as elective modules.

Quality Assurance At UHOH and CMU the joint M.Sc. programme has to be evaluated and accredited according to the national legislations and rules.

At UHOH the quality of courses and modules is evaluated in a two year rotation by the students of all study programmes. The evaluation sheets are distributed and evaluated by the Faculty of Agricultural Sciences and the results are sent back to the lecturers in an **anonymous** format. The lecturers are asked to discuss the results with the students at the end of their courses.

Academic calendarFirst semester June – October, second semester November – March, summerat CMUsession March – May.

Academic calendar
at UHOHIn the summer semester courses begin usually in week 14 and end in week 27.The lecture period is followed by an examination period of three weeks.
Blocked modules usually begin in week 14 as well. In the winter semester
courses usually begin in week 42 and end in week 5 of the new year.

- Teaching StaffBoth universities have long-standing experience in research on sustainable
agriculture and integrated watershed management and have developed an
extensive network of partner universities and research organizations in the
Southeast Asian region and beyond. The modules offered at Chiang Mai
University are jointly organized and taught by Thai and German professors,
who have broad experience in international research and teaching. Students
also benefit from the worldwide academic network of the two universities.
Guest speakers from various Asian partner universities, international research
teaching the curriculum with special
fields of expertise.
- Joint-Degree Upon successful completion of the M.Sc. programme students will be awarded a joint M.Sc. in "Sustainable Agriculture and Integrated Watershed Management" by UHOH and CMU. The Master certificate and the final transcript of records will be issued by the institution, where the student is taking the last exam or is defending the thesis. UHOH and CMU guarantee that only a completed certificate will be signed by the second rector / president. The degree entitles the student to continue with a Ph.D./doctoral programme at UHOH if the total grade is above average and is recommended to other universities.

- Students Assistance ... Students are generally responsible for their own study progress and sufficient personal funding. Student mobility will be organised by the CMU coordinator. Students are expected to pay their mobility costs in the case, where sponsors cannot be found.
- ... *at Chiang Mai* A wide range of supports are provided by Chiang Mai University to help the students to settle down and live pleasantly.
 - A two week introductory programme is offered by SAIWAM coordination office, with Thai language and culture and excursions to familiarize students with university facilities and Chiang Mai city. Students may extend the language course at CMU language institute afterwards.
 - A first-aid clinic for students is located in the guesthouse (opposite to the CMU Officials Club) and is open weekdays, excluding official holidays, from 8:30 a.m. to 4:30 p.m. The Student Health Service at the Faculty of Medicine also provides medical care and is open weekdays from 10:00-12:00 a.m. and 1:30-3:30 p.m.
 - In addition to counselling and advice from their course advisor on issues related to their academic studies, students with problems of a more personal nature can consult counselors at the Counselling Centre, which is run by lecturers from the Psychology Department. The Centre is located in the Faculty of Humanities and is open on weekdays from 09.00 - 15.00.

International Banking services and Post office are located in convenient locations around the campus. Shuttle bus service on the campus is available for students.

- ... *at Hohenheim* In order to facilitate the administrative, academic and social integration of foreign M.Sc. students in Germany, the Universität Hohenheim provides support in the following areas:
 - Intensive German language courses are offered by the university's language centre.
 - Every student is assigned a personal mentor from the teaching staff to ensure that each individual's study programme is suitable and that s/he progresses smoothly.
 - A two-week introductory programme is offered with excursions, seminars and presentations to familiarise students with university facilities, the city of Stuttgart and the surroundings.
 - Contact meetings with participants of former courses and German students are organised from the start to make new students feel at home and to help them settle in quickly at Hohenheim.
 - The University assists with reserving accommodation for students in the halls of residence where necessary and as far as available. Further assistance is provided at UHOH to students seeking accommodation on the private market.
- Admission Requirements Admission to the M.Sc. programme "Sustainable Agriculture and Integrated Watershed Management" is restricted to 20 (later 40) students per year. Students require an above-average Bachelor of Science or an equivalent degree in Agriculture or a related discipline following at least three years of university studies or German FH studies.

Applicants whose first language (mother tongue) is not English have to provide proof of proficiency in English (i.e. in TOEFL or IELTS Academic Test). TOEFL Scores are:

- minimum of 550 points in the paper-based test or
- 213 points in the computer-based test or
- 79 points in the internet-based test

Applications will be processed and ranked at CMU. Applications considered for an admission will be send to UHOH, where the Office of International Affairs will verify the credential evaluation and will recommend to the admission committee whether an applicant is formally entitled to be admitted to the programme or not. The decision on admission will be done by a joint admission committee. Applicants admitted to the programme will receive the admission letter by CMU.

- Application Deadline Students have to send their applications in English language to the coordination office at <u>Chiang Mai University</u>, <u>Thailand</u> (CMU). The application deadline is 15th September at each year (postal stamp or email).
- *Fees and Expenses* The tuition fee is 450,000 THB for 4 semesters. It is divided, 112,500 THB have to be paid per semester. This fee includes registration fee, administrative fee and semester contribution fee in both universities. Students pay the fee once at the university where they are studying; it is distributed to both universities. A fee for an additional semester has to be paid, if students spend more than 4 semesters to complete their study.

The fees may be refunded partially if a student leaves the programme during the semester. The students are exempted from paying fees for additional semesters, if they passed successfully all exams including the Master thesis and are only waiting for the publication/presentation/patenting of the thesis according to the examination regulation.

Students are expected to cover their own living expenses, including housing, food, health insurance, study materials etc. When arriving at UHOH students have to purchase a health insurance from a private company for one or two semesters depending on whether they do the thesis at UHOH.

Cost of Living Students have to come up for their own living expenses.

The cost of living for students in Thailand is estimated at around 10,000 baht per month. The transportation on campus is provided by the university shuttle buses, however students have to take into account own transportation from/to university. The cost of rental for motorbikes or other means of transport has to be considered, including food and other personal expenses. Although food price in campus area is relatively low, the price can be much different at the restaurant or outside campus area.

The standard of living in Germany is comparatively high and so is the cost of living. On estimate, a single student needs approximately Euro 600 per month. Apart from accommodation fees and food expenses, additional costs have to be taken into account, i.e. excursion fees, health insurance (which is a pre-requisite for registering with a German university), personal liability insurance, study material, etc.

Housing
 At Chiang Mai, off campus rented accommodation possibilities include studios, one- or two-bedroom condominium units (condos/flats/apartments), shared furnished and unfurnished houses, and privately run student hostels (dormitories). Monthly rental costs vary on location, facilities and services. The price for one studio room can be from 3,000 baht – 6,000 bath on average per month excluded electricity, water and internet bills. Generally most of the rental rooms are not equipped with kitchen facilities.

A short list of accommodation can be provided by CMU Coordination office, however students are recommended to contact the owner by themselves to suit their own need.

At UHOH each student is responsible for finding accommodation for him-/herself. The Universität Hohenheim cannot guarantee accommodation in dormitories due to lack of capacity. However, the Universität Hohenheim offers assistance with seeking for accommodation. This may help international

	students to fulfil visa requirements. Rent for a single-room apartment amounts to about Euro 250 to 400 per month, depending on the size of the flat and distance from the University or the City of Stuttgart.
Visa Application	Once the application to study at CMU has been approved, the students will need to obtain a Non-Immigrant ED visa to enter Thailand. This visa can be extended once your studies have commenced. DO NOT enter Thailand on a tourist or transit visa as these are not issued for study purposes and cannot be extended to cover the entire duration of your period of study.
	Please note: Foreign nationals studying on a student visa are not eligible for a work permit and therefore cannot legally work while studying in Thailand.
	 The documents required for a visa to Thailand are: A copy of the official letter of acceptance from CMU Two recent 4 x 6 cm passport size photos (less than 6 months old) A copy of your passport – information pages A medical certificate (less than 6 months old) Visa fee
	For the semester(s) at UHOH students that have not the nationality of a mem- ber state of the European Union need to hold a valid study visa. The co-ordi- nation office at CMU will support students in obtaining the visa in due time.
	Applicants are strongly advised to contact the cultural department of the German Embassy or Consulate responsible for the city of residence as soon as the letter of admittance has been received. The letter of admittance will certify that knowledge of the German language is not required for participating in the Hohenheim Master programme.
	The basic requirements for a student visa for Germany are the following: valid passport, photographs, proof of high school diploma / previous university study, letter of admittance from the Universität Hohenheim and proof of a financing source for the duration of the study. As a prerequisite for obtaining a visa at least EUR 500 per month are required. Therefore, for the second year, applicants will have to prove a minimum availability of EUR 6,000 of own resources, unless some other financing source is at their disposal. In the latter case, one (or more) person(s) or sponsor(s) have to take official responsibility for all costs pertaining to the entire period of study.
Programme director at UHOH	Prof. Dr. Karl Stahr Department: Soil Sciences and Land Evaluation Universität Hohenheim (310) 70593 Stuttgart Germany E-mail: <u>kstahr@uni-hohenheim.de</u>
Co-ordination office at CMU	Co-ordination office SAIWAM, Ms. Nisaporn Boonchaleao, Faculty of Agriculture, Chiang Mai University Chiang Mai 50200, Thailand Tel. +66-(0)87-6563835, Fax: +66-53-893099 saiwam@chiangmai.ac.th www.agri.cmu.ac.th

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In the following table all modules offered within the SAIWAM-Master and the corresponding lectures are shown. The modules are sorted by semester and within the same semester by module-code. The code in parenthesis is the module-code of CMU.

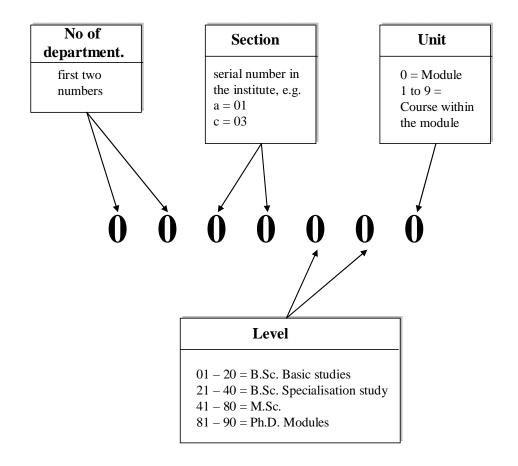
Module- Code	Name of Module	Sem.	Module obligation	Responsible Professor	-	Module- Duration	Exam	LV-Code	Courses of the Module	Lecturer(s)	Туре
3101-510	Soil Water and Forest		Compul-			3,5			Soil Water and Forest	Prof. Dr. Karl Stahr Assoc. Dr. Mattiga	
(370701)	Resources	1	sory	Stahr	engl.	Weeks	written	3101-511	Resources	Panomtaranichagul	Lecture
(0.0.01)			~)	~	8					Prof. Dr. Jens Wünsche	
										Assoc. Dr. Pittaya	
										Sruamsiri	
3703-420	Sustainable Production		Compul-			3,5			Sustainable Production	Assist.Dr. Daruni	
(370703)	of High Value Crops	1	sory	Wünsche	engl.	Weeks	written	3703-421	of High Value Crops	Naphrom	Lecture
	Processing and								Processing and	Prof. Dr. Joachim Müller	
4403-510	Marketing of High		Semi-			3,5			Marketing of High	Prof.Dr. Aree	
(370707)	Value Food Products	1	elective	Müller	engl.	Weeks	written	4403-511	Value Food Products	Wiboonpongse	Lecture
										Prof. Dr. Anne Valle	
										Zárate	
										Assoc. Dr. Boonlom	
										Cheeva-Isalakul	
										Assist.Dr. Choke Mikled	
4801-470	Sustainable Livestock		Compul-			3,5			Sustainable Livestock	Assist.Dr. Supamit	
(370704)	Production Systems	1	sory	Valle Zárate	engl.	Weeks	written	4801-471	Production Systems	Mekchay	Lecture
										Prof. Dr. Manfred Zeller	
										Assist.Dr. Chapika	
										Sangkapitux	
4901-460	Development Policies		Compul-	7 11		3,5			Development Policies	Assoc.Dr. Varaporn	*
(370702)	and Economic Strategies	1	sory	Zeller	engl.	Weeks	written	4901-461	and Economic Strategies	Panyawadee	Lecture
2004 450			a .							Prof. Dr. Georg Cadisch	
3801-450	Integrated Watershed		Semi-		1	3,5	•	2001 451	Integrated Watershed	Assoc.Dr.Attachai	T .
(370708)	Modelling	2	elective	Cadisch	engl.	Weeks	written	3801-451	Modelling	Jintrawet	Lecture
3802-450	Watershed Ecology and	2	Compul-	Carrantes	1	3,5 Waalaa		2002 451	Watershed Ecology and	Prof. Dr. Joachim	Laster
(370706)	Agroecosystems	2	sory	Sauerborn	engl.	Weeks	written	3802-451	Agroecosystems	Sauerborn	Lecture
4402 500	Renewable Energy		C			25			Renewable Energy	Prof. Dr. Joachim Müller	
4403-500	Sources for		Semi-	M::11an	1	3,5 Waalaa		4402 501	Sources for	Prof.Dr. Tanongkiat	Lasture
(370710)	Mountainous Regions	2	elective	Müller	engl.	Weeks	written	4403-501	Mountainous Regions	Kiatsiriroat	Lecture
4901-450	Ethnic, Cultural and	2	Compul-	Zallar	an al	3,5 Waalsa	witton	4001 451	Ethnic, Cultural and	Dr. Andreas Neef	Lastura
(370705)	Social Aspects of	2	sory	Zeller	engl.	Weeks	written	4901-451	Social Aspects of	Dr. Pornsiri	Lecture

Module- Code	Name of Module		Module obligation	Responsible Professor	Langu- age	Module- Duration	Exam	LV-Code	Courses of the Module	Lecturer(s)	Туре
	Watershed Development								Watershed Development	Suebpongsang Prof.Dr. Anan Ganjanapan	
4904-440 (370709)	Economic Modelling and Policy Simulation	2	Semi- elective	Berger	engl.	3,5 Weeks	written	4904-441	Economic Modelling and Policy Simulation	Prof. Dr. Thomas Berger Assoc.Dr. Benchaphun Ekasingh	Lecture
3101-520 (370711)	Interdisciplinary Study Project, Scientific Methodologies for Integrated Research	3	Compul- sory	Stahr	engl.	3,5 Weeks (B06)	written	3101-521	Interdisciplinary Study Project, Scientific Methodologies for Integrated Research	Prof. Dr. Karl Stahr	Project
3101-460	Mapping Course: Soils and Vegetation	3	Semi- elective - Specialis ation II	Stahr	Germ./ Engl.	3,5 Weeks (B07)	oral with in-course assessment	3101-461	Mapping Course: Soils and Vegetation	Prof. Dr. Martin Dieterich, Prof. Dr. Karl Stahr	Seminar with Exercise
3101-540	Soils, Vegetation, and Landscapes of Southwest Germany	3	Semi- elective - Specialis ation II	Stahr	Germ./ Engl.	blocked	oral	3101-541	Soils, Vegetation, and Landscapes of Southwest Germany	Prof. Dr. Karl Stahr	Exercise
3103-450 (370750)	Spatial Data Analysis with GIS	3	Semi- elective - Specialis ation II	Streck	Engl.	3,5 Weeks (B07)	written	3103-451 3103-452 3103-453	Analysis and Manage- ment of Spatial Data Spatial Databases and Applications Working with Spatial Data Using GIS	Prof. Dr. Thilo Streck Dr. rer. nat. Joachim Ingwersen	Lecture Lecture Excursion
3603-420 (370731)	Crop Protection in Organic Farming	3	Semi- elective- Specialis ation II	Zebitz	Germa n/ Engl.	1 Sem.	written (70 %) plus seminar (30 %)	3603-421	Crop Protection in Organic Farming	Prof. Dr. Claus Zebitz	Lecture with Seminar
3801-430 (370735)	Integrated Agricultural Production Systems	3	Semi- elective- Specialis ation III	Cadisch	Engl.	3,5 Weeks (B07)	written	3801-431	Integrated Agricultural Production Systems	Prof. Dr. Rainer Schultze-Kraft	Lecture with Seminar
3802-420 (370733)	Biodiversity, Plant and Animal Genetic Resources	3	Semi- elective- Specialis ation II	Sauerborn	Engl.	3,5 Weeks (B08)	written	3802-421	Biodiversity, Plant, and Animal Genetic Resources	Dr. rer. nat. Konrad Martin, Dr. Heiko Par- zies, Prof. Dr. Joachim Sauerborn, Prof. Dr. Anne Valle Zárate	Lecture with Seminar, Ex- cursion and Laboratory exercises

Module- Code	Name of Module	Sem.	Module obligation	Responsible Professor	Langu- age	Module- Duration	Exam	LV-Code	Courses of the Module	Lecturer(s)	Туре
4201-410	Agricultural and Food Policy	3	Semi- elective- Specialis ation I	Grethe	Engl.	3,5 weeks (B08)	written	4201-411	Agricultural and Food Policy	Prof. Dr. Harald Grethe	Exercise
4202-440 (370724)	Markets and Marketing of Organic Farming	3	Semi- elective- Specialis ation I	Becker	Engl.	1 Sem	written	4202-441	Markets and Marketing of Organic Farming	Prof. Dr. Tilman Becker, Dr. Jan Niessen	Lecture with Seminar
4202-450	Microeconomics	3	Semi- elective- Specialis ation I	Becker	Engl.	1 Sem.	written	4202-451	Microeconomics	Prof. Dr. Tilman Becker	Lecture
4303-470	Gender, Nutrition, and Right to Food	3	Semi- elective- Specialis ation I	Bellows	Engl.	1 Sem.	written (essay 70%) with in-course assessment (presentati on 30%)	4303-471	Gender, Nutrition, and Right to Food	Prof. Dr. Anne Camilla Bellows	Seminar
4303-480	Global Nutrition	3	Semi- elective- Specialis ation I	Bellows	Engl.	1 Sem.	written	4303-481	Global Nutrition	Prof. Dr. Anne Camilla Bellows, Prof. Dr. Hans Konrad Biesalski, Dr. Veronika Scherbaum	Lecture
4403-550 (370732)	Post-Harvest Technology of Food and Bio-Based Products)	3	Semi- elective- Specialis ation II	Müller	Engl.	3,5 weeks (B08)	written	4403-551	Post-Harvest Technology of Food and Bio-Based Products	Prof. Dr. Reinhold Carle, Prof. Dr. Joachim Müller, Dr. Sybille	Lecture with Excursion and Practical
4602-450 (370745)	Food Safety and Drinking Water Quality Related to Zoonoses in the Tropics and Subtropics	3	Semi- elective- Specialis ation II	Böhm	Engl.	3,5 Weeks (B10)	oral with essay	4602-451	Food Safety and Drinking Water Quality Related to Zoonoses in the Tropics and Subtropics	Prof. Dr. Hölzle	Lecture with Seminar
4801-410 (370741)	Genetic Resources and Animal Husbandry Systems in the Tropics and Subtropics	3	Semi- elective- Specialis ation III	Valle Zárate	Engl.	3,5 weeks (B07)	written	4801-411	Genetic Resources and Animal Husbandry Systems in the Tropics and Subtropics	Prof. Dr. Christian F. Gall, Dr. Pera Herold, PD Dr. Brigitte A. Kaufmann, Dr.	Lecture with Seminar and Excursion

Module- Code	Name of Module	Sem.	Module obligation	Responsible Professor	Langu- age	Module- Duration	Exam	LV-Code	Courses of the Module	Lecturer(s)	Туре
										Marianna Siegmund- Schultze, Prof. Dr. Anne Valle Zárate	
4801-420	Promotion of Livestock in Tropical Environments	3	Semi- elective- Specialis ation III	Valle Zárate	Engl.	3,5 weeks (B08)	written	4801-421	Promotion of Livestock in Tropical Environments	Dr. Pera Herold, Dr. Marianna Siegmund- Schultze, Prof. Dr. Anne Valle Zárate	Lecture with Seminar
4801-460 (370743)	Organic Livestock Farming	3	Semi- elective- Specialis ation III	Valle Zárate	Engl.	3,5 Weeks (B10)	written	4801-461	Organic Livestock Farming	Dr. Pera Herold, PD Dr. Brigitte A. Kaufmann, Prof. Dr. Anne Valle Zárate	Lecture with Seminar and Excursion
4802-430 (370740)	Integration of Aquaculture in Agricultural Farming Systems	3	elective	Becker	Engl.	3,5 Weeks (B09)	written	4802-431	Integration of Aquaculture in Agricultural Farming Systems	Prof. Dr. Focken	Lecture with Seminar and Laboratory exercises
4901-430	Rural Development Policy and Institutions	3	Semi- elective - Specialis ation I	Zeller	Engl.	3,5 Weeks (B07)	written	4901-431	Rural Development Policy and Institutions	Prof. Dr. Manfred Zeller	Lecture
4902-430	Food and Nutrition Security	3	Semi- elective - Specialis ation I	Brockmeier	Engl.	3,5 weeks (B10)	written	4902-431	Food and Nutrition Security	Prof. Dr. Anne Camilla Bellows, Prof. Dr. Hans Konrad Biesalski, Prof. Dr. Martina Brockmeier, Dr. Veronika Scherbaum, Prof. Dr. Manfred Zeller	Lecture
4903-470	Qualitative Research Methods in Rural				0	3,5 Weeks			Qualitative Research Methods in Rural		Lecture with Seminar and
(370726)	Development Studies	3	elective	Birner	Engl.	(B10)	written	4903-471	Development Studies	Prof. Dr. Regina Birner	Practical
4903-500	Policy Processes in Agriculture and Natural Resource Management	3	elective	Birner	Engl.	3,5 Weeks (B09)	written	4903-501	Policy Processes in Agriculture and Natural Resource Management	Prof. Dr. Regina Birner	Lecture

Explanation of UHOH's Module Code



Lecture Periods at UHOH

ner	ter	First day:	Monday of the 14 th calendar week				
Summer	semester	Last day of unblocked courses:	Saturday of the 29 th calendar week				
		End of block 10	In the 33 th calendar week				
er	ter	First day:	Monday of the 41 th calendar week				
Winter	semester	Last day of unblocked courses:	Saturday of the 5 th calendar week				
		End of Block B5	In the 9 th calendar week				

Examination periods in summer semester

B.Sc. and M.Sc. period 1: calendar week 30 to 32
B.Sc. and M.Sc.: period 2: calendar week 40 to 41
Deadline for the registration for exams: see notice-board of examination office

Examination periods in winter semester

B.Sc. and M.Sc. period 1: calendar week 6 to 8
B.Sc. and M.Sc.: period 2: calendar week 12 to 14
Deadline for the registration for exams: see notice-board of examination office

A registration form for the examinations at UHOH is available at UHOH's examination office. The exact dates of the module examinations are posted on the internet at: (https://www.uni-hohenheim.de/pruefung.html).