

COURSES IN ENGLISH - Triesdorf Campus

WINTER TERM 2023/24*



Overview

Department of Agriculture, Food, and Nutrition

931200090	<u>Food Biotechnology</u>	2 SWS / 2,5 EC
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Department of Environmental Engineering

932300120	<u>Thermal engineering practical course</u>	2 SWS / 2,5 EC
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287087040	<u>Sustainable Mobility (Master level)</u>	4 SWS / 5 EC
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ONLINE COURSES

911300370	<u>Agricultural machinery costs calculation - MOOC (Massive Open Online Course)</u>	2 - 4 SWS / 2,5 - 5 EC
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n.n.	<u>Agrarian production economics - MOOC (Massive Open Online Course)</u>	2 - 4 SWS / 2,5 - 5 EC
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LANGUAGE CLASSES

940200010	<u>Business English for the Food Industry</u>	2 SWS / 3 EC
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940200020	<u>Business English for Agricultural Engineering</u>	4 SWS / 5 EC
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940500140	<u>English for Agribusiness I</u>	2 SWS / 3 EC
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940500150	<u>English for Agribusiness II</u>	2 SWS / 3 EC
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941900190	<u>Scientific English for Nutrition and Health</u>	2 SWS / 3 EC
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940500170	<u>English for Environmental Studies</u>	2 SWS / 3 EC
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940200030	<u>Technical Conversation</u>	4 SWS / 5 EC
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940500050	<u>Intercultural Communication</u>	2 SWS / 3 EC
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	<u>German and Foreign Language Classes</u>	2 SWS / 3 EC
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[SWS = hours / week]

*Course offerings are preliminary and may be subject to change.

For an up-to-date timetable please check online: <https://www.hswt.de/en/international/ways-to-the-hswt/exchange-students>

COURSE DESCRIPTIONS

Department of Agriculture, Food, and Nutrition
Fakultät Landwirtschaft, Lebensmittel und Ernährung

931200090: Food Biotechnology

Hours/week: 2 SWS	ECTS-credits: 5 EC	Recommended prerequisites: Students in relevant fields of study	Lecturer: Prof. Iryna Shmetanska, Dr. Yaroslav Shevchenko
Objectives of the course/Learning outcome: The course provides information on the sustainable obtention of valuable products from plants and their in vitro cultures (cell, transformed root, and organ cultures), algae, moos, and fungi. In the course of the lectures the efficiency of different cultivation systems and methods will be compared. The technologies for the sustainable production of valuable metabolites through the modification of biosynthetic processes, application of precursors and elicitors, immobilization, exudation, extraction, and stabilization will be described. During the seminars students will learn to review biotechnological tasks and exercise decision-making skills. This will improve team work and contribute to students' communication skills. After this course students will be expected: <ul style="list-style-type: none"> • to understand the processes, functions, constructions, and applications of technical equipment for biotechnological cultivation and for obtaining of raw materials, • to evaluate process parameters and to choose proper biotechnological methods • to possess and be able to demonstrate knowledge in bioprocessing methods and technique. After this course students will be able to use the acquired technical and methodological skills for the production of valuable components of nutraceuticals, food-related and health-promoting products. Students will also be able to estimate and choose appropriate biotechnological methods and operating parameters for manufacturing products.			
Assessment methods: During the term students will make a group presentation on the given topic. After the course, a written examination will be administered.			
Room Schedule: tba			

Department of Environmental Engineering
Fakultät Umweltingenieurwesen

932300120: Thermal engineering practical course

Hours/week: 2 SWS	ECTS-credits: 2,5 EC	Recommended prerequisites: background in Thermodynamics and Heat Transfer	Lecturer: Prof. Dr.- Ing. Norbert Huber
Objectives of the course/Learning outcome: Practical skills and deeper understanding of thermal engineering			
Assessment methods: Seminar Paper			
Room Schedule: tba			

287087040: Sustainable Mobility (Master level)

Hours/week: 4 SWS	ECTS-credits: 5 EC	Recommended prerequisites: Students in relevant fields of study	Lecturer: Prof. Dr.- Ing. Norbert Huber
Objectives of the course/Learning outcome:			
<ul style="list-style-type: none"> - Facts about Mobility - Development of Automotive Combustion Engines - Lightweight Construction - City Mobility/ Intercity Mobility - Aviation - Noise and Mobility - Human Powered Vehicles - Electro Mobility - Concepts and Drive Train - Electro Mobility - Electrical Energy Storage - Fuels, Bio-Fuels - Hybrid Cars - Transport of Goods - Future Technologies in Mobility 			
Assessment methods: tba			
Room Schedule: tba			

ONLINE COURSES

911300370: International Agrimanagement - MOOC (Massive Open Online Course)

Hours/week: 2 or 4 SWS	ECTS-credits: 2,5 or 5 EC	Recommended prerequisites: a basic knowledge in the field of agricultural sciences is required.	Lecturer: Prof. Ralf Schlauderer
Objectives of the course			
<p>The goal of the course is to provide the theoretical basis for decision-making in production and the subsequent illustration on specific practical examples. In this case, the course deals primarily with the issue of purchasing long-term means of production such as tractors. In the process, the question is addressed whether the long-term means of production should preferably be purchased or leased. With the example of such questions, the theoretical basics of economic decisions are illustrated and discussed. Subsequently the developed theoretical principles are applied to specific practical examples. The results are discussed and evaluated from the perspective of decision-makers. Additionally, the course is utilizing Moodle. For each module, there is time for questions and discussions in a virtual chat room scheduled, to which all users have access to.</p>			
Learning outcome:			
<ul style="list-style-type: none"> • To accurately define costs, to explain cost categories and to apply the terms to examples of agriculture • To define and apply machinery costs, procedural costs and comparative costs • To calculate and appropriately interpret the total costs per year and costs per unit of output such as tractors hours or hectares • To calculate the Minimum Extent of Utilization for machinery, equipment and typical agricultural means of production and to appropriately evaluate the results. 			
<p>By submitting additional coursework and holding a final presentation, students may acquire up to 5 EC in total for this module.</p>			
<p>Contact person for registration and questions: Dr. Aristakesyan (aram.aristakesyan@hswt.de)</p>			

Assessment methods: If participating in the final examination (presence at the HSWT or at a partner universities required) participants receive a certificate
Room Schedule: n/a

Agrarian production economics - MOOC (Massive Open Online Course)

Hours/week: 2 or 4 SWS	ECTS-credits: 2,5 or 5 EC	Recommended prerequisites: a basic knowledge in the field of agricultural sciences is required.	Lecturer: Prof. Ralf Schlauderer
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Objectives of the course

- to foster modern lecturing and teaching in universities
- to make university knowledge online available for all interested groups of our societies

Course Content

The goal of the course is to provide the theoretical basis for decision-making in agricultural production and the subsequent illustration on specific practical examples for crop production. In this case, the course deals primarily with the issue of short- and long-term costs calculation means of crop production such as winter wheat. In the process, the question is addressed whether the crop production short- and long-term is profitable or not. With the example of such questions, the theoretical basics of economic decisions are illustrated and discussed. Subsequently the developed theoretical principles are applied to specific practical examples. The results are discussed and evaluated from the perspective of decision-makers. Additionally, the course is utilizing Moodle. For each module, there is time for questions and discussions in a virtual chat room scheduled, to which all users have access to.

By submitting additional coursework and holding a final presentation, students may acquire up to 5 EC in total for this module.

Contact person for registration and questions: Dr. Aristakesyan (aram.aristakesyan@hswt.de)

Assessment methods: If participating in the final examination (presence at the HSWT or at a partner universities required) participants receive a certificate

Room Schedule: n/a

Language Centre Sprachenzentrum

940200010: Business English for the Food Industry

Hours/week: 2 SWS	ECTS-credits: 3 EC	Target group: Students in relevant fields of study	Lecturer: Thomas Bartl
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Objectives of the course/Learning outcome:

- The ability to handle a wide variety of study-, university- and work related forms of communication in the English language.
- The understanding and application of both the spoken and written forms of communication.
- The ability to lead an adequate as well as understandable conversation concerning the food industry and your own studies at university (incl. planned or completed study-abroad periods). Usage of short and precise argumentation to present your own point of view.
- Development of learning strategies to further the independent development of student's language skills.

Course content:

- Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary)

<ul style="list-style-type: none"> Engaging in studying- and work related forms of communication (Application in English, Reading and discussing material on the food industry etc.) Training relevant forms of communication (Presentation, Conversation, Reading and writing of scientific essays)
Assessment methods: <i>tba</i>
Room Schedule: <i>tba</i>

940200020: Business English for Agricultural Engineering

Hours/week: 5 SWS	ECTS-credits: 5 EC	Target group: Students in relevant fields of study	Lecturer: Thomas Bartl
<p>Objectives of the course/Learning outcome:</p> <ul style="list-style-type: none"> The ability to understand and apply a large number of study-, university- and work related forms of communication in the English language. The understanding and application of both the spoken and written forms of communication. The ability to lead an adequate as well as understandable conversation concerning agricultural engineering and your own studies at university (incl. planned or completed study-abroad periods). Usage of short and precise argumentation to present your own point of view. Development of learning strategies to further the independent development of student's language skills. <p>Course content:</p> <ul style="list-style-type: none"> Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary) Engaging in study- and work related forms of communication (Reading and discussing materials related to the field of agricultural technology and engineering) Training relevant forms of communication (Projects, presentations, dialogue in the relevant subject area) 			
Assessment methods: <i>tba</i>			
Room Schedule: <i>tba</i>			

940500140: English for Agribusiness I

Hours/week: 2 SWS	ECTS-credits: 2,5 or 3 EC	Target group: Students in relevant fields of study	Lecturer: Susanne Kroner
<p>Objectives of the course/Learning outcome:</p> <ul style="list-style-type: none"> The ability to understand and apply a large number of study-, university- and work related forms of communication in the English language. The understanding and application of both the spoken and written forms of communication at an intermediate level of complexity. The ability to express oneself adequately and understandably concerning the entire supply chain, including the ability to recognise and comment on aspects of agribusiness such as plant- and animal production, initial processing of agricultural resources, the food industry as well as retail and wholesale. Development of learning strategies to further the independent development of student's language skills. <p>Course content:</p> <ul style="list-style-type: none"> Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary) Training relevant forms of communication (Presentations, role plays e.g. conversations with business partners; reading of scientific texts and devising written reports an intermediate level of complexity) 			
Assessment methods: <i>tba</i>			
Room Schedule: <i>tba</i>			

940500150: English for Agribusiness II

Hours/week: 2 SWS	ECTS-credits: 2,5	Target group: Students in relevant fields of study	Lecturer: Susanne Kroner
Objectives of the course/Learning outcome:			
<ul style="list-style-type: none"> The ability to understand and apply a large number of study-, university- and work related forms of communication in the English language in a wider range. The understanding and application of both the spoken and written forms of communication at an intermediate level of complexity. The ability to express oneself adequately and understandably concerning the entire supply chain, including the ability to recognise and comment on aspects of agribusiness such as plant- and animal production, initial processing of agricultural resources, the food industry as well as retail and wholesale. Development of learning strategies to further the independent development of student's language skills. 			
Course content:			
<ul style="list-style-type: none"> Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary) Training relevant forms of communication (Presentations, role plays e.g. conversations with business partners; reading of scientific texts and devising written reports an intermediate level of complexity) 			
Assessment methods: tba			
Room Schedule: tba			

941900190: Scientific English for Nutrition and Health

Hours/week: 2 SWS	ECTS-credits: 2,5	Target group: Students in relevant fields of study	Lecturer: Thomas Bartl
Objectives of the course/Learning outcome:			
<ul style="list-style-type: none"> The ability to understand and apply a large number of study-, university- and work-related forms of communication in the English language. The understanding and application of both the spoken and written forms of communication. The ability to express oneself adequately and understandably concerning aspects of health and nutrition, commenting on them and giving presentations on the topic. Development of learning strategies to further the independent development of student's language skills. 			
Course content:			
<ul style="list-style-type: none"> Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary) Acquiring and improving basic medical and general scientific terminology Developing strategies for reading and processing general and scientific papers on the topic of health and nutrition. Developing strategies for study- and subject-oriented forms of communication (Projects, presentations and discussions about technical material), particularly for the demonstration/explanation of complex information 			
Assessment methods: tba			
Room Schedule: tba			

940500170: English for Environmental Studies

Hours/week: 2 SWS	ECTS-credits: 2,5	Target group: Students in relevant fields of study	Lecturer: Susanne Kroner
Objectives of the course/Learning outcome:			
<ul style="list-style-type: none"> The ability to understand and apply a large number of study-, university- and work-related forms of communication in the English language. Being able to understand and handle both the spoken and written forms of communication. The ability to express oneself adequately and understandably concerning the subject of environmental engineering, commenting on and giving presentations on the topic. 			

<ul style="list-style-type: none"> Development of learning strategies to further the independent development of student's language skills, particularly technical vocabulary. <p>Course content:</p> <ul style="list-style-type: none"> Acquiring and improving linguistic abilities (listening, reading, speaking, writing, grammar, vocabulary) Engaging with text and media (written and audio-visual) concerning the diverse topic of environmental engineering Training relevant forms of communication (Work on projects, presentations and discussions about subject relevant material, devising written reports at an intermediate level of complexity)
Assessment methods: <i>tba</i>
Room Schedule: <i>tba</i>

940200030: Technical Conversation

Hours/week: 4 SWS	ECTS-credits: 5 EC	Target group: Students in fields of environmental studies and engineering with language skills on B2/C1 level	Lecturer: Thomas Bartl
<p>Objectives of the course/Learning outcome:</p> <ul style="list-style-type: none"> <i>tba</i> <p>Course content:</p> <ul style="list-style-type: none"> <i>tba</i> 			
Assessment methods: <i>tba</i>			
Room Schedule: <i>tba</i>			

German and other Foreign Language classes, various Levels

Hours/week:	ECTS-credits:	Target group: <i>all students</i>	Lecturer:
<p><u>German as a foreign language (DaF - Deutsch als Fremdsprache)</u></p> <ul style="list-style-type: none"> German classes are offered for advanced students at level C1 only. The specific aim of the course is to prepare for the C1 certificate examination. Beginners courses and courses on levels A1/A2/B1 are available online through Bavarian Virtual University <p><u>Other foreign language classes are offered at various levels:</u> <i>To join courses, students will have to complete an assessment test (not applicable for beginners courses)</i></p> <p>UNicert courses*:</p> <ul style="list-style-type: none"> - English (up to C1) - Spanish (up to B2) - French (up to B2) - Italian (up to A2) - Russian (up to A2) <p>General language courses*:</p> <ul style="list-style-type: none"> - Chinese (up to A2) <p><i>*Courses may require a minimum number of participants</i></p>			
Assessment methods: <i>tba</i>			
Room Schedule: <i>tba</i>			