## COURSES IN ENGLISH - Triesdorf Campus

### SUMMER TERM 2020*

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<th>Department of Agriculture, Food, and Nutrition</th>
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<td>930900150</td>
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<th>Department of Environmental Engineering</th>
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<td>932000110</td>
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<tr>
<th>ONLINE COURSE</th>
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<td>911300370</td>
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<tr>
<th>Language Classes</th>
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<td>940200010</td>
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*Status: 26.08.2019
Course offerings are preliminary and may be subject to change For an up-to-date timetable please check online: https://www.hswt.de/en/programmes-and-projects.html
940200020  Business English for Agricultural Engineering Part 1  2 SWS / 2,5 (3) EC
940200030  Business English for Agricultural Engineering Part 2  2 SWS / 2,5 (3) EC
9405000130  English for Agribusiness  2 SWS / 2,5 (3) EC

Can't find what you are looking for?
Please inquire with us about the availability of credit-relevant project work in your field of interest by sending an email to: martina.dietrich@hswt.de

COURSE DESCRIPTIONS*

Department of Agriculture, Food, and Nutrition
Fakultät Landwirtschaft

930900150: Introduction to Precision Farming

<table>
<thead>
<tr>
<th>Hours/week:</th>
<th>ECTS-credits:</th>
<th>Target group:</th>
<th>Lecturer:</th>
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<tbody>
<tr>
<td>2 SWS</td>
<td>2,5</td>
<td>Students in Agriculture, Agricultural Engineering, MBA</td>
<td>Prof. Dr. Patrick Noack</td>
</tr>
</tbody>
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Objectives of the course/Learning outcome:
Basic understanding of PF technologies.
The lecture on Precision Farming (PF) provides a broad overview on the technology involved in PF based on a review of its historical background. It features introductions in:
+ GNNS (Mapping, Steering)
+ GIS (Yield and Application Maps)
+ Remote Sensing
+ Variable Rate Technology
+ Boom Section Control and
+ Proximal Sensing.

Assessment methods: written exam, 90 minutes
Room Schedule: tba

Agriculture and Food Industry in Germany

<table>
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<tbody>
<tr>
<td>4 SWS</td>
<td>5</td>
<td>Students in Agriculture, Agricultural Engineering, MBA and related fields</td>
<td>Prof. Dr. Ralf Schlauderer and others</td>
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</tbody>
</table>

Objectives of the course/Learning outcome:
Students are able to describe the meaning and form of Agriculture and Food Industry in Germany.
They can describe basics of
- typical German farms and mid and long term developments
- organic farming
- agricultural markets and global issues
- diversification and business start up
- German retail as part of the food value chain
- precision agriculture

The module includes lectures and excursions.
Interdisciplinary Project

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<td>4 SWS</td>
<td>5</td>
<td>Students in Agriculture, Agricultural Engineering, MBA and related fields</td>
<td>Dr. Melanie Oertel, Prof. Dr. Ralf Schlauderer</td>
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</tbody>
</table>

Objectives of the course/Learning outcome:
Students are enabled to answer agricultural related questions in a scientific manner. During this course all steps of scientific work will be realized:
- starting with the formulation of a research question, stating a hypothesis, identification of suitable methods to answer proposed questions, data collection and "re-search", summarizing and presenting results, and finally prepare a written document in paper format.
- The following topics are proposed:
  - Water-Food-Energy-Nexus
  - Principles of sustainable agriculture
  - Climate-Smart Agriculture
  - Caring about the "unseen" – soils and groundwater
  - Agriculture in 2050

Course format: Seminar / working groups of 4-5 students

Assessment methods: project paper and oral presentation
Room Schedule: tba

International Trade

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<td>4 SWS</td>
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<td>Students in Agriculture, Agricultural Engineering, MBA and related fields</td>
<td>Prof. Dr. Johannes Holzner, Dr. Henrike Burchardi</td>
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Objectives of the course
Students are capable of processes and correlations at national and international level agricultural markets in order to draw conclusions about economic activity.
On completion of the module students will be able to apply strategies and marketing approaches in international trade. They have knowledge of international trade agreements as well as trade flows and can evaluate concepts for international companies in the agricultural sector

Learning outcome:
1. Familiarity with the development of supply and demand of supply, foreign trade, market and supply
   Pricing policy, as well as the marketing system for the main plant and animal products under special
   Consideration of regional and supra-regional markets
   - market for cereals and cereal products
   - Market for oilseed and protein crops
   - Market for potato and potato products
   - sugar market
   - Market for slaughter cattle and meat
   - Market for milk and milk products and market for eggs
   - market for eggs
2. Knowledge of the development of a positive market influence for agriculture
   - increase market transparency
   - quality production
- Improvement of market position through mergers

3. Knowledge of the development and causes of market structure and competitive conditions among the most important branches of the food industry (industry, craft)
- Mills, malting, breweries, bakeries
- Oil mills, starch and sugar factories
- Meat industry, dairy industry

Assessment methods: written exam, 90 minutes
Room Schedule: tba

Department of Environmental Engineering
Fakultät Umweltingenieurwesen

**932000110: Thermal Engineering (Practical course)**

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<tr>
<th>Hours/week:</th>
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<th>Recommended prerequisites:</th>
<th>Lecturer:</th>
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<tr>
<td>2 SWS</td>
<td>2.5</td>
<td>background in Thermodynamics and Heat Transfer</td>
<td>Prof. Dr.- Ing. Norbert Huber</td>
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Objectives of the course/Learning outcome:
Practical skills and deeper understanding of thermal engineering

Assessment methods: Seminar Paper
Room Schedule: tba

**931200120: Lecture Series "Renewable Energy"**

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<tr>
<td>2 SWS</td>
<td>2.5</td>
<td>background in physics and technical English</td>
<td>Prof. Dr.- Ing. Norbert Huber and others</td>
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Objectives of the course:
- Photo Voltaics
- Wind Power
- Solar Thermal Energy
- Hydro Power
- Bio Gas
- Renewable Primary Products
- Energy Efficiency in Buildings
- Combined Heat and Power
- Thermal Energy Storage
- Economy of Renewables
- Ecology of Renewables
- Grid impact of Renewables

Learning outcome:
At the end of the module the students are able to understand and remember the basics of renewable technologies. The students know English terms necessary in this technical field.

Assessment methods: tba
Room Schedule: tba
Online seminar

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

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<tr>
<th>Hours/week: 2 SWS</th>
<th>ECTS-credits: 2,5</th>
<th>Recommended prerequisites: a basic knowledge in the field of agricultural sciences (all disciplines) is required.</th>
<th>Lecturer: Prof. Ralf Schlauderer</th>
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Objectives of the course

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.

Learning outcome:
- To accurately define costs, to explain cost categories and to apply the terms to typical 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


=> The module may be combined with project work for additional credits points.

Assessment methods: If participating in the final examination (presence at the HSWT or in the partner universities required) participants will receive a certificate of attendance and certificate for 2.5 EC (ECTS).

Room Schedule: to be agreed individually

Language Centre
Sprachenzentrum

940200010: BUSINESS ENGLISH FOR THE FOOD INDUSTRY

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<tr>
<th>Hours/week: 2 SWS</th>
<th>ECTS-credits: 2,5</th>
<th>Target group: tba</th>
<th>Lecturer: Thomas Bartl</th>
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Objectives of the course/Learning outcome:
- The ability to understand and use the foreign language in written and spoken forms of communication in a large number of study and occupational situations.
- The ability to express oneself in appropriate and understandable ways in the subject areas of the food industry and to speak about and comment on topics related to one's field of studies (including a planned or accomplished stay abroad)
- Development of learning strategies to enhance the students' individual language skills.

Course content:
- Acquisition and development of linguistic skills (listening and reading comprehension, speaking, writing, grammar, vocabulary).
940200020: BUSINESS ENGLISH FOR AGRICULTURAL ENGINEERING
PART 1

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<td>2 SWS</td>
<td>2.5</td>
<td>tba</td>
<td>Thomas Bartl</td>
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</table>

Objectives of the course/Learning outcome:
- The ability to understand and use the foreign language in written and spoken forms of communication in a large number of study and occupational situations.
- The ability to express oneself in appropriate and understandable ways in the subject areas of agricultural engineering and to speak about and comment on topics related to one's field of studies (including a planned or accomplished stay abroad)
- Development of learning strategies to enhance the students' individual language skills.

Course content:
- Acquisition and development of linguistic skills (listening and reading comprehension, speaking, writing, grammar, vocabulary).
- Training of subject-relevant forms of communication (presentations, role-playing games, e.g. conversations with business partners; Reading scientific texts of medium complexity; Create written reports of medium complexity).

Assessment methods: tba
Room Schedule: [www.hswt.de/hochschule/zentrale-einrichtungen/sprachenzentrum/kurse-tr](www.hswt.de/hochschule/zentrale-einrichtungen/sprachenzentrum/kurse-tr)

940200030: BUSINESS ENGLISH FOR AGRICULTURAL ENGINEERING
PART 2

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<td>2 SWS</td>
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<td>tba</td>
<td>Thomas Bartl</td>
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Objectives of the course/Learning outcome:
- The ability to understand and use the foreign language in written and spoken forms of communication of medium complexity in a large number of study and occupational situations.
- The ability to express oneself in appropriate and understandable ways in the subject areas of agricultural engineering, marketing, sales and quality management in agricultural companies; as well as to recognise and comment on aspects of consulting in new agricultural areas and the organisation of diverse machine usage.
- Development of learning strategies to enhance the students' individual language skills.

Course content:
- Acquisition and development of linguistic skills (listening and reading comprehension, speaking, writing, grammar, vocabulary).
- Training of subject-relevant forms of communication (presentations, role-playing games, e.g. conversations with business partners; Reading scientific texts of medium complexity; Create written reports of medium complexity).

Assessment methods: tba
Room Schedule: [www.hswt.de/hochschule/zentrale-einrichtungen/sprachenzentrum/kurse-tr](www.hswt.de/hochschule/zentrale-einrichtungen/sprachenzentrum/kurse-tr)
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<td>2 SWS</td>
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<td>tba</td>
<td>Susanne Kroner</td>
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**Objectives of the course/Learning outcome:**

- The ability to understand and use the foreign language in written and spoken forms of communication of medium complexity in a large number of study and occupational situations.
- The ability to express oneself in appropriate and understandable ways in subject areas of the entire value chain, i.e. being able to recognise and comment on aspects of plant and animal production, first-stage processing of agricultural products, the food industry and the wholesale and retail business.
- Development of learning strategies to enhance the students' individual language skills.

**Course content:**

- Acquisition and development of linguistic skills (listening and reading comprehension, speaking, writing, grammar, vocabulary).
- Training of subject-relevant forms of communication (presentations, role-playing games, e.g. conversations with business partners; Reading scientific texts of medium complexity; Create written reports of medium complexity).

**Assessment methods:** tba

**Room Schedule:** [www.hswt.de/hochschule/zentrale-einrichtungen/sprachenzentrum/kurse-tr]