| Module Name | Module Code |
|---|---|
| Ruminant Nutrition | dsAEF009-01a |
| **Module Coordinator** | |
| Prof. Dr. Andreas Susenbeth | |
| **Organizer** | |
| Institute of Animal Nutrition and Physiology - Animal Nutrition | |
| **Faculty** | |
| Faculty of Agricultural and Nutritional Sciences | |
| **Examination Office** | |
| Faculty of Agricultural and Nutritional Sciences - Examination Office | |

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|---|---|
| **ECTS Credits** | 6 |
| **Evaluation** | Graded |
| **Duration** | one semester |
| **Frequency** | Only takes place during summer semesters |
| **Workload per ECTS Credit** | 30 hours |
| **Contact Time** | 60 hours |
| **Independent Study** | 120 hours |
| **Teaching Language** | English |

| **Recommended Requirements** |
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| Basics in animal nutrition, feed science, biochemistry, and physiology (according to the BSc level in agriculture) |

| **Module Courses** | | | |
|---|---|---|---|
| **Course Type** | **Course Name** | **Compulsory/Optional** | **SWS** |
| Lecture | Ruminant Nutrition | Compulsory | 4 |
| Tutorial | Ruminant Nutrition | Additional subject | 1 |

| **Prerequisits for Admission to the Examination(s)** |
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| 1. + 2. period in summer semester<br>1. period in winter semester<br>examiner: Prof. Dr. Uta Dickhöfer/Prof. Dr. Susenbeth<br>QIS: 300101 with examination 300120 |

| **Examination(s)** | | | | |
|---|---|---|---|---|
| **Examination Name** | **Type of Examination** | **Evaluation** | **Compulsory / Optional** | **Weighting** |
| Oral Examination: Ruminant Nutrition | Oral Examination | Graded | Compulsory | 100 |

| **Course Content** |
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| Feed evaluation; ruminal fermentation; energy and protein metabolism; efficiency of energy and nitrogen utilization; energy and nutrient requirements; nutritional effects on milk composition; feed intake and diet formulation; environmental impact of milk production; genotype-nutrition interactions |
| **Learning Outcome** |
| Students have deepened knowledge and understanding of general and specific aspects of ruminant nutrition, physiology and metabolism; students are able of linking basic science with problems occurring in practical feeding of ruminants |
| **Reading List** |
| Nutrition:<br>A comprehensive list of text books, specific publications and feed tables is provided. The complete presentations shown during the lecture are available on OLAT.Biochemistry:<br><br>At the beginning of the lecture, a comprehensive list of relevant textbooks in physiology and biochemistry will be presented; students are provided with lecture notes |

| **Use** | **Compulsory / Optional** | **Semester** |
|---|---|---|
| Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2013) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2013) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017) | Compulsory | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2013) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017) | Optional | 1. |
| Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2013) | Optional | 1. |
| Master, 1-Subject, Dairy Science, (Version 2017) | Compulsory | 1. |
| Master, 1-Subject, Nutritional and Food Science, (Version 2013) | Optional | 1. |
| Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017) | Optional | 1. |
| Master, 1-Subject, Nutritional and Consumer Economics, (Version 2013) | Optional | 1. |