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| 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 |

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| Recommended Requirements | | | |
| 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 |
| Prerequisites for Admission to the Examination(s) | | | |
| 1. + 2. period in summer semester 1. period in winter semester examiner: Prof. Dr. Susenbeth QIS: 300101 with examination 300120 | | | |

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

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| Course Content |
| 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 |
| <p>Nutrition: 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:</p> <p>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</p> |

| Use | Compulsory / Optional | Semester |
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| 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. |