

Nutrition and Health

- Courses in English -

- Consumer Behaviour
- Communal Catering Services
- Food Marketing
- German Food & Culture*
- International Human Resource Management
- Marketing Research
- Project Management
- Public Health Project Intercultural Intelligence
- Scientific Ergonomics with lab
- Sensory Analysis
- Sports Nutrition
- Academic English (for non-native speakers)

This programme is offered in the summer semester (April-July) only. Faculty of Life Sciences; September 2024)

^{*} max. 20 participants

Course Name: Consumer Behaviour Degree programme: Responsible Lecturer: Nutrition & Health (Bachelor) Prof. Dr. Stephan Meverding **ECTS Credits:** 5 Workload: 150 hours Lecture hours per week: 4 **Course objectives:** Students acquire a deep understanding that... We use products to help us define our identities The society we live in today can be described as a consumer society Brands have become the most important symbolic vehicles in the marketplace The ethics of consumption is becoming more and more significant, both for consumer well- being and as sound Many factors at the time of purchase dramatically influence the consumer's decision-making process The design of a product today is a key driver of its success or failure We interpret the stimuli to which we pay attention according to learned patterns and expectations The self-concept strongly influences consumer behavior Society's expectations of masculinity and femininity help to determine the products we buy to meet these

- Society's expectations of masculinity and femininity help to determine the products we buy to meet these
 expectations
- The way we evaluate and choose a product depends on our degree of involvement with the product, the marketing message, and/or the purchase situation
- A lifestyle defines a pattern of consumption that reflects a person's choice of how to spend his or her time and money, and these choices are essential to defining consumer identity
- Psychographics go beyond simple demographics to help marketers understand and reach different consumer segments
- Understanding attitudes is important to consumer researchers
- Persuasion can change attitude
- The three categories of consumer decision-making are cognitive, habitual, and affective
- The way information about a product choice is framed can prime a decision, even when the consumer is unaware of this influence
- Other people and groups, especially those that possess social power, influence our decisions
- Word-of-mouth communication is the most important driver of product choice
- Social media changes the way we learn about and select products
- Many important demographic dimensions of a population relate to family and household structure
- Our membership in ethnic, racial and religious subcultures often guide our consumption behavior

Contents:

- An Introduction to Consumer Behavior
- A Consumer Society
- Shopping, Buying and Disposing
- Perception
- The Self
- Motivation, Lifestyle and Values
- Learning and Memory
- Attitudes

- Individual Decision-making
- Group and Social Media
- European Structures, Decision-making and Aging
- Income and Social Class
- Culture and Consumer Behavior
- Cultural Change Processes
- Consumption and European Consumers

About didactics and workload distribution:

60% problem-based learning and group work; 40% lectures - 60 hours classes, 90 hours personal study

Requirements for participation:	Course language:
None	English
Type of exam:	
Written exam	

Requirements for credit point allocation:

Active participation in class and exam

Literature:

Solomon, Bamossy, Askegaard, Hogg (2016): Consumer Behavior – A European Perspective, Sixth Edition, Pearson, Harlow.

Course name: Communal Cate	ring Services		
Degree programme: Nutrition & Home Economics (Bachelor)		Responsible Lecture Prof. Dr. Ulrike Pfan	
Workload: 150 hours	Lecture hours per wee	ek: 4	ECTS Credits: 5

Students will be able to....

- describe the mission statement of communal catering services
- evaluate the different specialized food systems like cook and serve, cook and chill etc.
- describe the different serving systems and to decide which are adequate for the respective setting
- describe equipment and decide the adequate technology based on the different demands
- know nutritional quality standards for guests in different institutions and can apply them
- develop and implement specific measures for sustainable and health-promoting food service
- check hygiene procedures based on legal requirements
- Implement quality assurance and improve continuously

Contents:

- The communal catering and food service market
- Specialized systems like cook and chill, cook and serve, cook and freeze, sous vide etc.
- Transport, storage, distribution and service of meals
- Sustainable and health-promoting menu planning
- Basic conditions of food supply in different institutions like kinder gardens, schools, nursing homes, canteens and hospitals.
- Specific nutritional standards for different target groups
- Food and Nutrition Action Plan of Europe and Germany consequences for catering
- Quality- and hygiene management
- Nudging in the food service sector
- SDG's and sustainable nutrition in catering business

About didactics and workload distribution:

Presentations, working in small groups, discussions, visits to different institutions

Requirements for participation: Basic knowledge of nutrition science Type of exam: Written test – multiple choice Course language: English

Requirements for credit point allocation:

Successfully passed written examination, participation in group work and presentations

- BfR / BZfE (Hg.): Hygiene Rules in the Catering Sector, Berlin 2018
- DGE (Hg.): 13th DGE-Nutrition Report, summary, Bonn 2016
- Directorate General for Health & Consumers (ed.): Strategy for Europe on nutrition, overweight and obesity related health issues, Implementation Report, Brussels 2010
- German Nutrition Society: DGE Quality Standard for School Meals, Bonn 2014
- Gregoire Mary B.: Foodservice Organizations, Boston 2017
- Koerber v. Karl / Hohler Hubert: The joy of Sustainable Eating, Stuttgart 2013
- Lassen; A.D. et.al.: Development and validation of a new simple health meal index for canteens, Public Heath Nutrition 13 (10), p. 1559 1565
- Manson, Pamela / Manson Tim: Sustainable diets how ecological nutrition can transform consumption and the food system, London 2017
- Monash University (ed.): Greening up our catering, Australia 2009
- School Food Trust (ed.) Secondary School meals. Eat better Do better, London 2010
- Thaler, Richard / Sunstein, Cass: Nudge: Improving decisions about health, wealth and happiness, London 2009
- Tecklenburg, Ernestine / Arens-Azevêdo, Ulrike / Pfannes, Ulrike: Catering in nurseries (VeKiTa): nutritional situation, awareness and implementation of the specific German Nutrition Society's Quality Standard, ErnaehrungsUmschau international, 2/2016, p. 48-55

Course Name: Food Marke	eting		
Degree programme: Nutrition & Home Economics	(Bachelor)	Responsible Lecturer: Dr. Cl	hristoph Wegmann
Workload: 150 hours	Lecture hours per we	eek: 4	ECTS Credits: 5
 Students will gain knowled products. 	t into the development of lge in planning and in the ace in the assessment of the	integrated marketing concepts implementation of marketing in a disadvantages and disadvantage	struments for food
Contents: Specifics of the food indust Direct sales of food produc Cooperative marketing in t Retail marketing in the foo Advertising for food produc Branding and package desi Customer loyalty and customer	cts he food sector d sector cts ign		
About didactics and workload 50% case studies; 50% lectures	distribution:		
Requirements for participation basic knowledge in marketing would			Course language:
Type of exam: Written paper and presentation or written examination			
Requirements for credit point Active participation in class and case		t papers	
Literature: Case studies			

Course Name: German Food and Culture			
Degree programme: Nutrition & Home Economics	(Bachelor)	Responsible Lecturer: Lena Me	yer/ Tarek Butt
Workload: 150 hours	Lecture hours per	week: 4	ECTS Credits: 5
century. It will be reasoned in which has taken place during the	ut German favorite foo ch way living and eatin last 50 years.	out Germany. Ods and beverages today and in the g in Germany has changed and whi	ich international influence
Contents: Development of consumer International Influences of Development of Food pro Regional differences in Ge Preparing of typical Germ History of the recipes Germ Market overview, consum	f eating behavior in Ge duction and processing erman culture an dishes man traditional meals	rmany 3	
About didactics and workload Scientific project	d distribution:		
Requirements for participation: active participation in group work; max. 20 participants Course language: English			language:
Type of exam: 75% presentation of project works and the project works and the project works are the project works and the project works are the project	/ 25 % survey report		
Requirements for credit point Active participation in group work a			

Course Name: International Human Resource Management			
Degree programme: Nutrition & Home Economics (Bachelor) Responsible Lecturer: Prof. Dr. Birgit K. Peters			
Workload: 150 hours	Lecture hours pe	r week: 4 (Blended Learning*)	ECTS Credits: 5

The blended learning course "International Human Resource Management" includes five workshops. **Students** who sign up for the course have to attend a minimum of four lessons to get the Examination credits. The topics are about International Human Resource Management with the focus on Communication, Compensation and Benefits, Motivation, Leadership, Training and Development. We are going to look at the topics from different perspectives and countries.

Content:

Strategic HRM / HRM strategies
 International Employee relations
 Basic Communication Skills
 Performance Management
 Basics of Leadership & Leadership & Leadership Styles
 Training and Development

About organization, didactics and workload distribution:

There are no regular weekly lectures. The course is a *blended learning course.

Course structure:

Workshop 1 – Self-study Phase and work package 1 – Workshop 2 – Self-study Phase and work package 2 – Workshop 3 – Self-study Phase and work package 3 – Workshop 4 – Self-study Phase 4 – Workshop 5

For each workshop, two or more teams will be asked to prepare a workshop, which they present to the total group. All work packages must be completed as a team in the individual groups.

Organizational behavior

Requirements for participation:

Motivation theories

Students should have some prior knowledge of the field of human resource management.

Course language:

Type of exam:

Grading of each component of the course as described below.

English

Requirements for credit point allocation:

- attendance of four of the five workshops is mandatory
- successful completion of the three work packages (e.g. presentation, research poster, case study, video)
- work on a workshop as a team with presentation in the course

Main Literature:

- Ansoff, H. I.: Strategic Management, New York 1979
- Armstrong, M.: A Handbook of Human Resource Management Practice, 11th edition, London 2009
- Becker, M.: Personalentwicklung Blg, Förderung u. Organisat. in Theorie u. Praxis, Stuttgart 2009
- Mintzberg, H.: The Rise and Fall of Strategic Planning, 1994
- Price, A.: Human Resource Management, Hampshire 2011
- Redman, T./Wilkinson, A.:Contemporary Human Resource Management, Harlow 2013
- Rosenstiel, L.v. (Hrsg.): Führung von Mitarbeitern, Stuttgart 2014

Course Name: Market Res	earch		
Degree programme: Nutrition & Health (Bachelor)		Responsible Lecturer: Prof. Dr. Stephan Meyerdin	g
Workload: 150 hours	Lecture hours per we	eek: 4	ECTS Credits: 5

- To understand the function and uses of marketing research
- To learn the different types of marketing research firms and the industry structure
- To gain insights into marketing research by learning the steps in the marketing research process
- To understand the difference between the *problem* and the *research objective*
- To understand what research design is and why it is significant
- To learn how exploratory research design helps the researcher gain a feel for the problem by providing background information, suggesting hypotheses, and prioritizing research objectives
- To know the fundamental questions addressed by descriptive research and the different types of descriptive research
- To explain what is meant by causal research and to describe types of experimental research designs
- To understand the advantages and disadvantages of secondary data
- To understand basic differences between quantitative and qualitative research techniques
- To become knowledgeable about the details of different types of survey data collection methods, such as
 personal interviews, telephone interviews, and computer-administered interviews, including online
 surveys
- Understand basics of measurement people, places, and things
- Examine three scale formats commonly used
- To learn the dos and don'ts of question wording
- To become familiar with sample design terminology
- To be able to develop a sample plan
- To become acquainted with data quality errors and how to handle them
- To appreciate the five basic types of statistical analysis used in marketing research
- To learn how to obtain descriptive statistics with SPSS
- To be able to test the differences between two percentages or means for two independent groups
- To learn how to obtain and interpret cross-tabulations, Chi-square findings, and correlations with SPSS
- To learn how to obtain and interpret multiple regression analysis with SPSS
- To learn the basic guidelines for writing effective marketing research reports

Contents:

- 1. Introduction to Marketing Research
- 2. The Marketing Research Industry
- 3. The Marketing Research Process and Defining the Problem and Research Objectives
- 4. Research Design
- 5. Secondary Data and Packaged Information
- 6. Qualitative Research Techniques
- 7. Evaluating Survey Data Collection Methods
- 8. Understanding Measurement, Developing Questions, and Designing the Questionnaire
- 9. Selecting the Sample
- 10. Determining the Size of a Sample
- 11. Dealing with Field Work and Data Quality Issues
- 12. Using Descriptive Analysis, Performing Population Estimates and Testing Hypothesis
- 13. Implementing Basic Differences Tests
- 14. Making Use of Associations Tests
- 15. Understanding Regression Analysis Basics
- 16. The Research Report

About didactics and workload distribution: 60% problem-based learning and group work; 40% lectures - 60 hours classes, 90 hours personal study		
Requirements for participation: None	Course language: English	
Type of exam: Written exam		
Descrivements for gradit maint allocation.		

Requirements for credit point allocation:

Active participation in class and exam

- Burns, Bush (2014): Marketing Research, International Edition, Seventh Edition, Pearson, Boston.
- Meyerding, Merz (2018): Consumer preferences for organic labels in Germany using the example of apples Combining choice-based conjoint analysis and eye-tracking measurements, Journal of Cleaner Production, Vol. 181 (2018), pp. 772-783. DOI: 10.1016/j.jclepro.2018.01.235
- Meyerding, Risius (2018): Reading minds: Mobile functional near-infrared spectroscopy (fNIRS) as a new neuroimage method for economic and marketing research – A feasibility study, Journal of
- Neuroscience, Psychology, and Economics, Vol. 11 (4), pp. 197-212. DOI: 10.1037/npe0000090

Course Name: Project Management			
Degree programme: Nutrition & Home Economics	(Bachelor)	Responsible Lecturer: Prof.	Dr. C. Wegmann
Workload: 150 hours	Lecture hours per week: 4		ECTS Credits: 5

- To plan separate projects and to apply the instruments of the project management
- To work as a project manager in a small up to middle-sized projects
- To work client orientated in projects
- To recognise critical situations in the project management

Contents:

- Definition of project aims and scope
- Context analysis
- Project workflow planning with critical path method
- Resource and cost planning

Project organisation
Project controlling
Roles and responsibilities
Leadership and conflicts

Use of project management software (MS Project)

About didactics and workload distribution:

- Teaching and discussions (50%),
- Group work (case studies), student presentations (50%)

presentation, written summary, three learning diaries

Requirements for participation: none Course language: Type of exam: written examination or

Requirements for credit point allocation:

successful completion of written exam at the end of the semester *or* presentation and written paper and three learning diaries

- Portney, S.E. (2007): Project Management for Dummies, 2nd ed., ISBN-10: 0470049235.
- Robert, P. (2007): A guide to project management, The Economist (ed.), Profile Books Ltd., ISBN: 978 1 86197 822 6.

Course Name: Public Health Project: Intercultural competencies & intelligence			
Degree programme: Health Science (Bachelor)		Responsible Lecturers: Wiebke Bendt & external le	ecturer
Workload: 150	Lecture Hours per w	eek: 4	ECTS Credits: 5

The objective of the course is to acquire the conceptual understanding and hands-on skills required to respond to the challenges of interactions in multicultural contexts, from a public health perspective.

Upon successful completion of the module, students will be able

- To distinguish between different approaches to culture.
- To become aware of their participation in intercultural exchange and the influence of their own culture.
- To apply tools that facilitates intercultural communication and relation.
- Understand the interaction of social determinants, esp. culture, on the health and well-being.
- To design a persuasive project proposal and to present it to potential stakeholders.

Contents:

- Theories of culture and intercultural communication
- Model of intercultural learning
- Reflection on cultural attitudes and belief
- Project management in work with interdisciplinary and multi-cultural teams
- The relevance of culture for health and well-being for individuals and communities

About didactics and workload distribution:

- Project work, problem-based learning and student presentations
- 72 contact hours, 78 hours home and fieldwork

Requirements for participation:	Course language:
Type of exam:	English
Student presentations; developing and presenting a project proposal	

Requirements for credit point allocation:

Active participation in the self-reflection process and collaboration with students from other regions and cultures; acknowledgement and respect of differences in the participants regarding gender, culture and region; working and researching autonomously and in teams and use different media for result presentations.

- Papadopoulos I, Tilki M and Taylor G. Transcultural Care: A guide for Health Care Professionals. Quay Books. Wilts. 1998.
- Schulz von Thun F: "Let's talk!" 1. Problems and Solutions: A general Psychology of Communication. Deardorff DK, ed. The Sage Handbook of Intercultural Competence. Sage, California, 2009.
- Savicki V, ed. Developing Intercultural Competence and Transformation Theory, Research and Application in International Education. Stylus Publishing, Virginia, 2008.
- Straub J, Weidemann A, Weidemann D, Hrsg. Handbuch interkulturelle Kommunikation und Kompetenz. Grundbegriffe Theorien Anwendungsfelder. Verlag JB Metzler, Stuttgart + Weimar, 2007.
- Roth J, Köck C, Hrsq. Culture communication skills. Bayrischer Volkshochschulverband. München 2004.

Course Name: Scientific Ergonomics with Lab			
Degree programme: Health Sciences (Bachelor)		Responsible Lecturer: Jamal Klussmann	Choudry / Prof. Dr.
Workload: 150 hours	Lecture hours per week: 4		ECTS Credits: 5

- Students gain scientific expertise through a combination of theoretical and practical knowledge
- Students acquire general competence by combining expertise on the systems Human Health Work

Contents:

- 9 experiments: workplace evaluation, work organization, electrocardiogram, electromyography, ergospirometry, lifting and carrying of loads, working surrounding (noise, climate, lighting), bioelectrical impedance analysis, occupational skin protection
- Ergonomic project
- Scientific work

About didactics and workload distribution:

- Students conduct 9 experiments in our laboratory
- Students choose a scientific project related to the ergonomics and work on it in a seminar

Requirements for participation: Basic knowledge of scientific work	Course language: English
Type of exam: Written examination	

Requirements for credit point allocation:

- Participation in group work
- Participation in lab work

- Experiment instructions
- Specific literature according to the project

Course Name: Sensory Analysis				
Degree programme: Nutrition & Home Economics (Bachelor)		Responsible Lecturer: Prof. Dr. Andrea Bauer		
Work load: 150 hours	Lecture hours per week: 4		ECTS Credits: 5	

- Students will be able to select and train panellists for sensory evaluation and monitor panel performance.
- Students will be familiar with the planning, and the execution of sensory tests, both with and without having hard- and software for sensory evaluation at hand. This includes the selection of appropriate sensory methods, the statistical analysis of the data, and the interpretation and communication of the results.

Contents:

- Introduction to sensory perception (physiology)
- Panellist selection and training, screening tests; threshold testing, testing colour and texture perception of panellists, perception of aroma qualities
- Setting up a sensory laboratory
- Descriptive methods
- Discrimination tests
- Hedonic / affective tests
- Sensory methods for application in quality management
- Statistical methods for data analysis, interpretation of the results
- Introduction to software for sensory data collection and data analysis
- Documentation of sensory tests

About didactics and workload distribution:

The workload comprises 60 hours of lecturing and 90 hours of independent study. During the lectures the theoretical background is provided, and students conduct sensory tests with a wide array of food products. The data collected during these tests are statistically analysed and interpreted in an interactive, easy-to-follow way.

Requirements for participation: Participants should ideally have some basic knowledge in statistics	Course language:	
Type of exam:	English	
 Written exam at the end of the course Participants need to write 2 short reports (not marked) on sensory tests of their choice and design a short FIZZ-session (not marked) for sensory testing throughout the course 		

Requirements for credit point allocation:

Compulsory attendance of lectures and classes and successful completion of the exam

- Lawless, H. T. and H. Heymann (2010). Sensory Evaluation of Food: Principles and Practices. Heidelberg, Springer.
- Stone, H., R. Bleibaum, et al. (2012). Sensory Evaluation Practices. London, Academic Press.
- Meilgaard, M. C., G. V. Civille, et al., Eds. (2007). Sensory Evaluation Techniques. Boca Raton, CRC Press.
- O'Mahony, M. (1986). Sensory Evaluation of Food: Statistical Methods and Procedures. New York, Marcel Dekker.

Course Name: Sports Nutrition				
Degree programme: Bachelor		Responsible Lecturer: Prof. Dr. Anja Carlsohn Additional Lecturer: Prof. Dr. Sibylle Adam		
Workload: 150 hours	Lecture hours per week: 4		ECTS Credits: 5	

The course aims to empower students to gather evidence-based information and recommendations regarding physical activity, nutrition and sports nutrition. Students will be able to identify exercise- related special needs and requirements in athletes as well as to provide evidence-based nutritional counselling to the given target group (i.e. physically active subjects of different age groups, recreational and competitive athletes, elite athletes). Students will be aware of diet-related health risks in athletes and able to identify athletes at risk as well as to develop strategies for prevention of these health risks.

Contents:

- Physical activity recommendations and definitions of "athletes"
- Methods in sports nutrition (e.g. measurement of energy requirements, assessment of energy availability and body composition, assessment of hydration status)
- Diet-related health risks in athletes and tool to screen or identify athletes at risks (e.g. RED-S and/or female athlete triad, exercise-induced hyponatremia, dehydration, iron deficiency, gastrointestinal distress, eating disorders)
- Evidence-based recommendations and practical solutions for recreational and elite competitive athletes in endurance sports, power sports, team sports, weight class and weight sensitive sports
- Recent controversies and research approaches in sports nutrition (e.g. vegan diets, ketogenic diets, techniques for low glycogen training, intermitted fasting, mouth rinsing and carboloading techniques, cooling strategies)
- Application of different methods and screening tools in sports nutrition including the development of individualized evidence-based dietary recommendations or recommendations for the catering in mass sports events

About didactics and workload distribution:

The course will combine lectures and workshops including developing practical skills. Respective guest lecturers will be invited. Total workload will approximate 150 hours, with 78 hours independent study.

Requirements for credit point allocation:

Passing the workshop tasks and exam/report

- Burke L. and Deakin V. Clinical Sports Nutrition, McGraw-Hill Education Ltd. ISBN-13: 978-1743073681. Burke L. Practical Sports Nutrition. Human Kinetics. ISBN-13: 978-0736046954
- Maughan RJ and Gleeson M. The Biochemical Basis of Sports Performance. ISBN-13: 978-0199208289 Jeukendrup A. From Lab to kitchen. Meyer & Meyer Sport. ISBN-13: 978-1841262963.
- Recent peer-reviewed articels and position statements regarding sports nutrition (German Nutrition Society, American College of Sports Medicine, International Olympic Committee)

Course Name: Academic English (for non-native speakers)				
Degree programmes: Health Science (Bachelor) & Nutrition & Home Economics (Bachelor)		Responsible Lecturer: Anke Böttcher (MA)		
Workload: 150 hours	Lecture hours per week: 4		ECTS Credits: 5	

- Study skills for academic studies, esp. presenting, discussing and negotiating, and writing, i.e. descriptions, reports, summaries, letter conventions and applications.
- Mind-mapping and vocabulary learning strategies with a focus on health and nutrition as well as scientific language, esp. for the kitchen and chemical laboratory, mathematics and statistics, negotiations, and presentations.
- Grammar revision focusing on the use in science based on handouts.

Contents:

Academic English focuses on the skills needed for academic studies, especially presenting, discussing and writing, such as reports and summaries, talks (presentations). More job-related writing, such as letters, applications and negotiations, will also shortly be dealt with. Vocabulary learning strategies for food and health-related vocabulary and the basic vocabulary needed to deal with mathematics and statistics, to negotiate or present successfully will be another main focus of the course, apart from a revision of grammar with particular reference of its use in academic writing.

About didactics and workload distribution:

There will be possibilities to use English as discussion language in class paired with some structured input on vocabulary and a revision of some essential grammar. Reading texts are short. Presentation structure and vocabulary as well as vocabulary learning strategies are also topics dealt with. Regular participation is advisable but not mandatory.

Requirements for participation:	Course language:
Intermediate to upper intermediate level of English	English
Type of exam:	
Presentation including short summary	

Requirements for credit point allocation:

Minimum 4.0 in the exam

Literature:

The following will be used in class alongside others:

- Oxford Advanced Learner's Dictionary/Longman Dictionary of Contemporary English David Kerridge: Presenting Facts and Figures, Longman, 1988
- Mark Ellis, Nina O'Driscoll: giving Presentations, Longman, 1992
- Raymond Murphy: English Grammar in Use; intermediate and advanced, 3rd ed. CUP 2010 Jenny Mawer: Business Games, LTP Hove 1992