

**Special examination regulations for the consecutive Master's degree program Master of Science in
Viticulture and Enology
at the Ludwigshafen University of Business and Society**

dated 19 December 2024

Please note: this translation is provided for information purposes only. The legally binding version of this regulation is the original German text. In case of any inconsistencies or conflicts between the German and English versions, the German text shall take precedence.

Preamble

Following the decision of the Joint Committee of the Departments (GAF) of the Department of Marketing and Human Resource Management at the Ludwigshafen University of Business and Society, the Department of Life Sciences and Engineering at the Bingen University of Applied Sciences, and the Department of Applied Logistics and Polymer Sciences at Kaiserslautern University of Applied Sciences on 10 December 2024, on the basis of the cooperation agreement from 6 April 2009, the President of the Ludwigshafen University of Business and Society approved the Special Examination Regulations for the Master of Science in Viticulture and Enology on 19 December 2024 after the Senate of the Ludwigshafen University of Business and Society had given its opinion on 18 December 2024 (§§ 7 Para. 2 Sentence 1 No. 2, 86 Para. 2 No. 2, 76 Para. 2 No. 6, 7 Para. 3 Sentence 2 of the *Hochschulgesetz* (Higher Education Act, hereafter *HochSchG*) in the version from 23 September 2020, last amended by the *Gesetz- und Verordnungsblatt für das Land Rheinland-Pfalz* (Ordinance Gazette of Rhineland-Palatinate, p. 453) from 22 July 2021. The regulations are enumerated below.

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§ 1 Scope

- (1) For the Master of Science in Viticulture and Enology, the provisions of the General Examination Regulations (*Allgemeine Prüfungsordnung*, hereafter “GER”) for Bachelor’s and Master’s degree programs at the Ludwigshafen University of Business and Society apply in their respective versions. These regulations contain supplementary special regulations for the completion of the degree program.
- (2) The Master of Science in Viticulture and Enology is offered in two study program formats:
 - **Plan A** is aimed at students who hold a Bachelor’s degree in viticulture and enology who are looking to gain practical experience in the wine industry and expand their knowledge with an interdisciplinary approach.
 - **Plan B** is aimed at students who hold a Bachelor’s degree in the natural sciences or engineering who would like to enter into the field of viticulture and enology and expand their knowledge with an interdisciplinary approach.
- (3) For examinations taken at the Ludwigshafen University of Business and Society, the examination regulations according to paragraph 1 apply.
- (4) The regulations of the Université de Haute-Alsace for the Master Sciences et technologies de l’agriculture, de l’alimentation et de l’environnement - parcours franco-allemand Œnologie et Viticulture apply to examinations taken at the Université de Haute-Alsace.

§ 2 Admission requirements

- (1) Admission to the **Plan A** degree program is open to those who:
 - a. have a Bachelor's degree with at least 180 ECTS credits in an accredited degree program in viticulture and enology, or have obtained an equivalent university degree in Germany or abroad,

or

have a Bachelor’s degree in a natural science, agricultural science, engineering or economics discipline with a focus on the wine industry; two years of qualified practical experience in the field of viticulture and enology is expected,

and
 - b. can provide a signed internship contract between the applicant and the cooperating dual-studies partner company for at least the duration of the first practical phase,

and
 - c. can provide proof of enrollment in the Master Sciences et technologies de l’agriculture, de l’alimentation et de l’environnement - parcours franco-allemand Œnologie et Viticulture at the Université de Haute-Alsace, France. Proof must be submitted by the end of the first semester at the latest.
- (2) Admission to the **Plan B** degree program is open to anyone who has obtained a Bachelor’s degree with at least 180 ECTS credits in an accredited degree program in the natural sciences, agricultural sciences, engineering or economics with a focus on the wine industry, or an equivalent degree in Germany or abroad. On the basis of the cooperation agreement from 6 April 2009 with the *Dienstleistungszentrum Ländlicher Raum Rheinpfalz* (DLR, Center for Rural Services Rhineland-Palatinate), in the currently valid version, the practical periods in Plan B as

specified in the curriculum are to take place with the Johannitergut state winery and the research facilities of the DLR Rheinpfalz, as defined in § 1 para. 2. As such, enrollment comprises as the basis of the internship contract in accordance with § 20 para. 3 sentence 4 of the *HochSchG*.

- (3) A further admission requirement for both Plan A and Plan B is proof of English language proficiency corresponding to the level B2 of the Common European Framework of Reference for Languages (CEFR). Proof can be provided through recognized language certificates such as TOEFL, Cambridge Certificate, IELTS, or through a successful oral aptitude test in accordance with Annex 1a), or through the successful completion of previous school or academic work as listed in Annex 1b).

§ 3 Academic degree

- (1) The Ludwigshafen University of Business and Society awards the academic degree Master of Science for successful completion of the degree program, abbreviated as: M.Sc.
- (2) The French partner university Université de Haute-Alsace awards the academic degree of "Master" (Master Sciences et technologies de l'agriculture, de l'alimentation et de l'environnement - parcours franco-allemand Œnologie et Viticulture) for successful completion of the Plan A degree program option.

§ 4 Structure and duration of degree program

- (1) The standard period of study is 4 semesters. The compulsory modules and compulsory elective modules required for successful completion are listed in Annex 2 (Plan A Curriculum) and Annex 3 (Plan B Curriculum).
- (2) The total number of ECTS credit points (CP) required for successful completion of the program is 120 and includes the Master's thesis, which consists of the thesis proposal, thesis, and thesis defense, amounting to 30 ECTS credit points.
- (3) One ECTS credit point corresponds to 25 hours of work.
- (4) Plan A includes the practical phases of semesters 1 to 3 (Application Studies 1 to 3), totaling 29 ECTS credit points.
- (5) The courses of Plan A in the third and fourth semester are held at the Université de Haute-Alsace (location: Colmar, France).
- (6) Plan B includes the practice-based phases of Semester 1 (Module 160 and 170); Semester 2 (Module 260) and Semester 3 (Module 350 and 360), totaling 45 ECTS credit points.

§ 5 Examination Board

- (1) The Joint Committee of the Departments (*Gemeinsamer Ausschuss der Fachbereiche*) elects an Examination Board.
- (2) The Examination Board shall consist of at least the following members with voting rights:
 - a) Three full-time professors from the universities involved in the cooperation agreement (Ludwigshafen University of Business and Society, Bingen University of Applied Sciences, and Kaiserslautern University of Applied Sciences) and who teach at the Neustadt campus.
 - b) One student representative.
- (3) One member from the group pursuant to § 37 Para. 2 Nos. 3 and 4 of the *HochSchG*. This only applies insofar as the cooperating universities do not make use of the rule according to § 37

Paragraph 2 Sentence 5, 2nd half-sentence of the *HochSchG*. Should the universities pass a corresponding resolution, each group must be represented. The member may be a member of the *Dienstleistungszentrum Ländlicher Raum Rheinpfalz* (DLR, Center for Rural Services RhinelandPalatinate).

- (4) The examination board may include one or more advisory members of the cooperation partner *Dienstleistungszentrum Ländlicher Raum Rheinpfalz* (DLR). They are elected by the Joint Committee of the Departments.

§ 6 Examinations, organization of examinations

- (1) The Master of Science in Viticulture and Enology is offered predominantly in English. Module examinations may be taken in German upon request. This request does not constitute a legal right.
- (2) The respective examination regulations apply to the examinations of the degree program, which take place at the participating universities. There may be deviations between the examination regulations, e.g. in the number of repeat examinations allowed.
- (3) All module examinations in this degree program are examinations or coursework in accordance with Section 15 (1) and (2) of the General Examination Regulations.
- (4) These regulations provide for the following subject-specific examination types in accordance with Section 15 (5 f) of the General Examination Regulations:
 - a) Scientific report: The scientific report comprises the written presentation and reflection of the preparation, implementation, and evaluation of an independently planned and executed research project. The written report should not exceed 15 pages.
 - b) Case study: In a case study, the candidate should demonstrate that he or she can analyze a complex problem using the methods of the subject area, develop appropriate interdisciplinary concepts or solutions, and present the results in an appropriate written form within a limited period of time, either independently or in a team, on the basis of a practical case. The written case study should not exceed 15 pages. The case study may include an oral presentation in addition to the written component.
 - c) Practical-phase assignments: Practical-phase assignments are written papers on cases, tasks, or questions that are worked on during the practical phases at partner companies, usually up to 5 pages in length. In total, the module examination should comprise no more than 4 assignments.
 - d) Research Proposal: The research proposal is part of the Master's thesis. The conditions of the oral examination according to the General Examination Regulations § 15 Para. 10 apply. With the research proposal, students should demonstrate that they can independently identify and describe a topic of relevance to the future of the field. By means of a presentation, they present their research project, the research question (thesis and hypotheses), the significance, the study design, and the expected contribution of this research to the subject area.
- (5) When submitting written assignments, students must confirm that they have completed their work independently – in the case of group work, each contributor's part must be marked accordingly – and have not used any aids other than those specified and indicated in the case of quotations. The date of submission of the written work must be recorded. In the case of delivery by post, the date of delivery to the post office is binding; in the case of electronic delivery, the date of receipt is binding.
- (6) Student attendance is compulsory in the following courses, as the learning objectives can only be achieved through regular student attendance:

- a) Field Component: Cultural Context of Wine - Germany, France and Beyond
- b) Laboratory Component: Advanced Techniques in Instrumental Wine Analysis
- c) Laboratory Component: Advanced Molecular Microbiological Analysis

Attendance is a prerequisite for taking the examination.

§ 7 Master's Thesis

- (1) The Master's thesis consists of the thesis proposal, the thesis, and the thesis defense. The time allocated for completing the thesis proposal and the thesis is six months, including one month for the thesis proposal. The topic, task, and scope of the Master's thesis must be set in such a way that the time frame allocated for thesis work can be adhered to.
- (2) In addition to the provisions of Section 17 (1) of the General Examination Regulations, application for advancement to the Master's thesis can be made at the earliest when 50 ECTS credit points have been earned. At the recommendation of the supervisor, the Examination Board can decide on advancement to the thesis at an earlier date.
- (3) The Master's thesis must be written in German, French, or English. The language is determined in agreement with the primary supervisor.
- (4) Following the thesis, a thesis defense is planned in which the topic of the Master's thesis is reflected upon in a presentation and accompanying discussion. The thesis defense is conducted as a peer examination in front of the reviewers and, if necessary, up to two other examiners as appointed by the examination board; it is usually open to the university public. The defense usually lasts 30 minutes and constitutes part of the Master's thesis. The rules of the oral examination according to § 15 Paragraph 10 of the General Examination Regulations apply. As a rule, the thesis defense must take place within two months of submission of the thesis.
- (5) The overall grade for the Master's thesis is calculated as 25% of the grade on the thesis proposal, 50% of the grade on the thesis, and 25% of the grade for the student's performance in their thesis defense.
- (6) The Master's thesis is considered passed if all parts of the examination (thesis proposal, thesis, thesis defense) have received a grade of at least 4.0.
- (7) The grade for the Master's thesis is given double weight in the calculation of the final grade for the degree program.

§ 8 Entry into force

- (1) These regulations for the Master of Science in Viticulture and Enology come into force on the day after their publication in the University Gazette of the Ludwigshafen University of Business and Society. They apply to all students of the Master of Science in Viticulture and Enology who begin their studies starting from the 2025/26 Winter Semester.
- (2) At this time, the examination regulations for the Master's degree program in Viticulture and Enology dated 10 May 2024 shall cease to apply.

§ 9 Transitional regulation

- (1) Notwithstanding § 8 Paragraph (2), students who began their studies in the Master's degree program in Viticulture and Enology before the 2025/25 Winter Semester shall be examined in accordance with the Special Examination Regulations of 10 May 2024. Examinations according

to the Special Examination Regulations for the Master's degree program in Viticulture and Enology will be held for the last time during the 2027 Summer Semester.

- (2) Upon request, students as defined in Paragraph 1 Sentence 1 may be examined in accordance with the provisions of these regulations.

Ludwigshafen and Neustadt an der Weinstraße, 19 December 2024

Prof. Dr. Gunther Piller
President of the Ludwigshafen University of
Business and Society Ludwigshafen

Prof. Dr. Dominik Durner
Chairman of the GAF (Joint Committee of the
Departments of the Marketing and Human
Resource Management faculty at
Ludwigshafen University of Business and
Society Ludwigshafen, the Department of Life
Sciences and Engineering at the Bingen
University of Applied Sciences, and the
Department of Applied Logistics and Polymer
Sciences at the Kaiserslautern University of
Applied Sciences)

Annex 1a): Equivalence of language competence

1. In the oral aptitude test in accordance with § 2 Paragraph 3 of these regulations, applicants must demonstrate that they have English language skills corresponding to level B2 of the Common European Framework of Reference for Languages (CEFR).
2. The regulations of the oral examination according to § 15 Paragraph 10 of the General Examination REgulations apply to the aptitude test. As a rule, the duration is 30 minutes. The aptitude test is assessed as passed or failed. In the event of non-participation in the aptitude test or in the event of unjustified withdrawal after registration, it is deemed to have been failed.

Annex 1b): Equivalence of completed academic work

Proof of English language proficiency at level B2 of the Common European Framework of Reference for Languages (CEFR) can be provided by proof of successful completion of English lessons up to and including the upper-secondary school level. This requires either the final grade of the last school year or an average of the last two school years, which must correspond to at least the German grade of 4 ("sufficient") or at least 5 points.

Annex 2: Plan A – Curriculum

1st Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	110	Professional Integration and Transformation 1 *** (practice-based module)		10	250	1	AP / PP	SL	0/116
		Process Engineering	Elective 1 out of 4			1			
		Regulatory Affairs Management				1			
		Precision / Sustainable Viticulture				1			
		R&D in Grape and Wine Production				1			
	120	Wine Culture and Leadership Skills		5	125	5	PRE	SL	0/116
		Cultural Context of Wine - Germany, France and Beyond **	Required			2			
		Leadership and Intercultural Competences	Required			2			
		European Wine Law and Protection of Intellectual Property	Required			1			
	130	Data Analysis and Methodology		5	125	4	A	PL	5/116
		Advanced Statistical Modeling	Required			2			
		International Scientific Communication	Required			1			
		Applied Wine Research - Journal Club	Required			1			
	140	Future Technologies in Enology		5	125	5	CS	PL	5/116
		Innovations in Enology	Required			2			
		Process Engineering and Automation Technology	Required			2			
		Quality Management	Required			1			
	150	Customer-centric Product Development		5	125	5	CS,CS / CS,WB / WB,WB	PL	5/116
		Consumer Research and Behavior	Required			2			
		Sustainable Product Development	Required			1			
		Special Methods of Sensory Case Studies	Required			2			
	Total			30	750	20			

2nd Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	210	Professional Integration and Transformation 2 *** (practice-based module)		10	250	1	AP / PP	SL	0/116
		Process Engineering	Elective 1 out of 4			1			
		Regulatory Affairs Management				1			
		Precision / Sustainable Viticulture				1			
		R&D in Grape and Wine Production				1			
	220	Ecology, Sustainability and Management in Viticulture		5	125	3	CS / A / PRE	PL	5/116
		Ecology and Biodiversity in the wineyard	Required			1			
		Agricultural Meteorology and Precision Viticulture	Required			1			
		Viticultural Management and Technology	Required			1			
	230	Innovation in Biotechnology and Chemistry		5	125	4	PRÄ	PL	5/116
		Chemistry and Biotechnology of Wine Making	Required			2			
		Advanced Techniques in Instrumental Wine Analysis **	Elective 1 out of 2			2			
		Advanced Molecular Microbiological Analysis				2			
	240	Management and Entrepreneurship in Wine		5	125	3	A / CS	PL	5/116
		Sustainable Entrepreneurship and Wine Economics	Required			2			
		Wine Marketing	Required			1			
	250	Climate Change and Viticulture: Influences and Adaptation Strategies		5	125	3	CS / A / PRE	PL	5/116
		Impacts of Climate Change on Viticulture	Required			1			
		Adaptation Strategies to Climate Change	Required			2			
	Total			30	750	14			

3rd Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	310	Professional Integration and Transformation 3 *** (practice-based module) ****	Required	9	225	1	****	SL	0/116
	320	Project ChemWine**** (study abroad)	Required	9	225	15	****	PL	9/116
	330	Project VitiSmart 1**** (study abroad)	Required	3	75	6	****	PL	3/116
	410	Master Thesis		9	225	1	RP	PL	18/116
		Thesis Proposal	Required	9		1			
	Total			30	750	23			

4. Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	410	Master Thesis		21	525	2	T,D	PL	42/116
		Thesis	Required	16		1			
		Thesis Defense	Required	5		1			
	420	Project GreeneVine**** (study abroad)	Required	6	150	11	****	PL	6/116
	430	Project VitiSmart 2**** (study abroad)	Required	3	75	2	****	PL	3/116
	Total			30	750	15			

Total full degree program				120	3000	72		116/116
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CP = Credit points within the framework of the European Credit Transfer System (ECTS)

PL = Examination = graded examination that is included in the overall grade calculation

SL = Course Work = graded or ungraded examination; the grade is not included in the overall grade calculation

SWS = Semester hours per week

* The slash "/" between the examination types means "or"

In exceptional cases, combinations of examination types are possible; these are indicated by a " , "

** Compulsory attendance according to §6 paragraph 6

*** Company practical phase

**** Subject to French examination regulations of the UHA (study abroad)

Exam types:

A = Assignment

AP = Practice-integrating assignments

CS = Case study

D = Defense

PP = Portfolio

PRE = Presentation

RP = Research proposal

T = Thesis

WB = Scientific report

Note: The contact time in France cannot be converted directly into weekly hours per semester. These figures therefore serve as a guide

Annex 3: Plan B – Curriculum

1st Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	120	Wine Culture and Leadership Skills		5	125	5	PRE	SL	0/125
		Cultural Context of Wine - Germany, France and Beyond**	Required			2			
		Leadership and Intercultural Competences	Required			2			
		European Wine Law and Protection of Intellectual Property	Required			1			
	130	Data Analysis and Methodology		5	125	4	A	PL	5/125
		Advanced Statistical Modeling	Required			2			
		International Scientific Communication	Required			1			
		Applied Wine Research - Journal Club	Required			1			
	140	Future Technologies in Enology		5	125	5	CS	PL	5/125
		Innovations in Enology	Required			2			
		Process Engineering and Automation	Required			2			
		Quality Management	Required			1			
	150	Customer-centric Product Development		5	125	5	CS,CS / CS,WB / WB,WB	PL	5/125
		Consumer Research and Behavior	Required			2			
		Sustainable Product Development	Required			1			
		Special Methods of Sensory Case Studies	Required			2			
	160	Core Competences Biology and Ecology of the Vine (practice-based module)		5	125	4	PRE / K	SL	0/125
		Grapevine Physiology, Biochemistry and	Required			2			
		Vine Ecology: Climate, Soil, Biotic and Abiotic Stress	Required			2			
	170	Core Competences Enology (practice-based module)		5	125	4	PRE / K	SL	0/125
		Sensory Analysis, Wine Chemistry and Analytics	Required			2			
		Applied Enology	Required			2			
	Total			30	750	27			

2nd Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	220	Ecology, Sustainability and Management in Viticulture		5	125	3	CS / A / PRE	PL	5/125
		Ecology and Biodiversity in the wineyard	Required			1			
		Agricultural Meteorology and Precision Viticulture	Required			1			
		Viticultural Management and Technology	Required			1			
	230	Innovation in Biotechnology and Chemistry		5	125	4	PRÄ	PL	5/125
		Chemistry and Biotechnology of Wine Making	Required			2			
		Advanced Techniques in Instrumental Wine Analysis**	Elective 1 of 2			2			
		Advanced Molecular Microbiological Analysis**				2			
	240	Management and Entrepreneurship in Wine		5	125	3	A / CS	PL	5/125
		Sustainable Entrepreneurship and Wine Economics	Required			2			
		Wine Marketing	Required			1			
	250	Climate change and Viticulture: Influences and Adaptation Strategies		5	125	3	CS / A / PRE	PL	5/125
		Impacts of Climate Change on Viticulture	Required			1			
		Adaptation Strategies to Climate Change	Required			2			
	260	Core Competences Viticulture (practice-based module)		5	125	4	PRE / K	SL	0/125
		Smart & Sustainable Viticulture and Meteorology	Required			2			
		Viticultural Practices	Required			2			
	270	Science in Practice: Management and Language Skills		5	125	4	PRE	SL	0/125
		Experimental Design and Project Management	Required			2			
		Wine Specific English	Required			2			
	Total			30	750	21			

3rd Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	350	Lab Rotation 1 (practice-based module)		15	375	1	WB	PL	15/125
		Plant Breeding	Elective 1 of 5			1			
		Mitigation Strategies for Climate Change				1			
		Health Related Topics				1			
		Analytical Methodologies				1			
		Consumer Research				1			
	360	Lab Rotation 2 (practice-based module)		15	375	1	WB	PL	15/125
		Plant Breeding	Elective 1 of 5			1			
		Mitigation Strategies for Climate Change				1			
		Health Related Topics				1			
		Analytical Methodologies				1			
		Consumer Research				1			
	Total			30	750	2			

4th Semester	Module no.	Modules Courses	Required/ Elective	CP	Workload in hours	SWS	Exam type*	Examination or Coursework	Weighting for overall grade
	410	Master Thesis		30	750	3	RP, T, D	PL	60/125
		Thesis Proposal	Pflicht	9		1			
		Thesis	Pflicht	16		1			
		Thesis Defense	Pflicht	5		1			
	Total			30	750	3			

Total full degree program				120	3000	53			125/125
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ECTS = Credit points within the framework of the European Credit Transfer System (ECTS)

PL = Examination = graded examination that is included in the overall grade calculation

SL = Course Work = graded or ungraded examination; the grade is not included in the overall grade calculation

SWS = Semester hours per week

* The slash "/" between the examination types means "or"

In exceptional cases, combinations of examination types are possible; these are indicated by a ","

** Compulsory attendance according to §6 paragraph 6

Exam types:

A = Assignment

CS = Case study

D = Defense

K = Written exam

PRE = Presentation

RP = Research proposal

T = Thesis

WB = Scientific report