

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

dated 10.05.2024

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 xx. April 2024 on the basis of the cooperation agreement from 6 April 2009, the President of the Ludwigshafen University of Business and Society (HWG) on xx.05.2024 approved the Special Examination Regulations for the Master of Science in Viticulture and Enology after the Senate of the HWG had given its opinion (§7 Para. 2 No. 2, 86 Para. 2 No. 2, 76 Para. 2 No. 6, 7 Para. 3 No. 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 to both the dual (practice-integrated) and the non-dual study program formats in their currently valid version. 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:
 - a) a dual format (practice-integrated, German-French double degree) and
 - b) a non-dual format (traditional full-time studies).
- (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 as part of the dual study option.

§ 2 Admission requirements

- (1) Admission to the dual study 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 subject 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 company for at least the duration of the first practical phase,and
 - c) provides 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 UHA. Proof must be submitted by the end of the first semester at the latest.
- (2) Admission to the non-dual study degree option is open to anyone who has obtained a Bachelor's degree with at least 180 ECTS credits in an accredited degree program in natural sciences, agricultural sciences, engineering or economics with a focus on the wine industry or an equivalent degree in Germany or abroad.
- (3) A further admission requirement for both the dual and non-dual study options is proof of English language proficiency corresponding to level B2 of the Common European Framework of Reference for Languages (CEFR). Proof can be evinced 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 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", abbreviated to: M.Sc.
- (2) The French partner university Université de Haute-Alsace awards the academic degree "Master" (Master Sciences et technologies de l'agriculture, de l'alimentation et de l'environnement - parcours franco-allemand Œnologie et Viticulture) after successful completion of the dual study option.

§ 4 Structure and duration of the 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 (curriculum for the dual study option) and Annex 3 (curriculum for the non-dual study option).
- (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) The dual study option includes the practical phases of semesters 1 to 3 (Professional Integration and Transformation 1 to 3), amounting to a total of 29 ECTS credit points.
- (5) The courses of the dual study variant of the third and fourth semester are held at the Université de Haute-Alsace (location: Colmar, France).
- (6) The third semester of the non-dual study option is an internship semester that takes place at a research institution in Germany or abroad.

§ 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.
 - c) 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 (DLR, Center for Rural Services Rhineland-Palatinate) Rheinpfalz.
- (3) The examination board may include one or more advisory members of the cooperation partner Dienstleistungszentrum Ländlicher Raum Rheinpfalz (DLR) Rheinpfalz. 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 application. The application 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) GER.
- (4) These regulations provide for the following subject-specific examination types in accordance with Section 15 (5 f) GER:
 - a) Scientific report: The scientific report comprises the written presentation and reflection of the preparation, implementation and evaluation of an independently planned and conducted 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, no more than 4 assignments should comprise the module examination.
 - d) Research proposal: The research proposal is part of the Master's thesis. The conditions of the oral examination according to the GER § 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 the 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 AnalysisAttendance is a prerequisite for taking the examination.

§ 7 Master 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 timeframe allocated for thesis work can be adhered to.
- (2) In addition to the provisions of Section 17 (1) GER, application for advancement to the Master's thesis can be made at the earliest when 50 ECTS credit points have been achieved. At the recommendation of the supervisor, the Examination Board can decide on advancement 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 first examiner.
- (4) Following the thesis, a thesis defense is planned in which the topic of the Master's thesis is reflected upon through presentation and discussion. The thesis defense is conducted as a peer examination in front of the reviewers and, if necessary, up to two other examiners to be appointed by the examination board; it is usually open to the university public. It 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 GER 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 from the winter semester 2024/2025.
- (2) At this time, the examination regulations for the dual German-French Master's degree program in Viticulture and Enology dated 8 April 2020 shall cease to apply.

§ 9 Transitional regulation

- (1) Notwithstanding § 8 Paragraph (2), students who began their studies in the dual German-French Master's degree program in Viticulture and Enology before the winter semester 2024/2025 shall be examined in accordance with the Special Examination Regulations of 8 April 2020. Examinations in accordance with the Special Examination Regulations for the dual German-French Master's degree program in Viticulture and Enology of 8 April 2020 will be held for the last time during the winter semester 2026/2027.
- (2) Upon application, 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, 10.05.2024

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 GER 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: Study plan for the dual study option

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

2nd Semester	Module no.	Modules Courses	Compulsory/Elective	CP	Workload in h	SWS	Exam type *	Examination or Coursework	Weighting for overall grade
	210	Professional Integration and Transformation 2 *** (Praxisphase)		10	250	1	AP / EP	SL	0/116
		Process Engineering	Compulsory 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 / P	PL	5/116
		Ecology and Biodiversity in the vineyard	Compulsory			1			
		Agricultural Meteorology and Precision Viticulture	Compulsory			1			
		Viticultural Management and Technology	Compulsory			1			
	230	Innovation in Biotechnology and Chemistry		5	125	4	P	PL	5/116
		Chemistry and Biotechnology of Wine Making	Compulsory			2			
		Advanced Techniques in Instrumental Wine Analysis **	Compulsory 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	Compulsory			2			
		Wine Marketing	Compulsory			1			
	250	Climate Change and Viticulture: Influences and Adaptation Strategies		5	125	3	CS / A / P	PL	5/116
		Impacts of Climate Change on Viticulture	Compulsory			1			
	Adaptation Strategies to Climate Change	Compulsory			2				
Total				30	750	14			

3rd Semester	Module no.	Modules Courses	Compulsory/Elective	CP	Workload in h	SWS	Exam type *	Examination or Coursework	Weighting for overall grade
	310	Professional Integration and Transformation 3 *** (Praxisphase) ****		9	225	1	AP / EP / P	SL	0/116
	320	Project ChemWine**** (Study abroad)		9	225	15	WB	PL	9/116
	330	Project VitiSmart 1**** (Study abroad)		3	75	6	WB	PL	3/116
	410	Master Thesis		9	225	1	RP	PL	18/116
		Thesis Proposal		9		1			
	Total			30	750	23			

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

Total 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 practice phase

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

Exam types:

A = Assignments

AP = Practice-integrating Assignments

CS = Case Study

D = Defence

EP = Portfolio

P = Presentation

RP = Research Proposal

T = Thesis

WB = Scientific Report

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

Annex 3: Study plan non-dual study option

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

2nd Semester	Module no.	Modules Courses	Compulsory/Elective	CP	Workload in h	SWS	Exam type *	Duration of exam	Examination or Coursework	Weighting for overall grade
	220	Ecology, Sustainability and Management in Viticulture		5	125	3	CS / A / P		PL	5/125
		Ecology and Biodiversity in the vineyard	Compulsory			1				
		Agricultural Meteorology and Precision Viticulture	Compulsory			1				
		Viticultural Management and Technology	Compulsory			1				
	230	Innovation in Biotechnology and Chemistry		5	125	4	P		PL	5/125
		Chemistry and Biotechnology of Wine Making	Compulsory			2				
		Advanced Techniques in Instrumental Wine Analysis**	Compulsory elective 1 out 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	Compulsory			2					
	Wine Marketing	Compulsory			1					
250	Climate change and Viticulture: Influences and Adaptation Strategies		5	125	3	CS / A / P		PL	5/125	
	Impacts of Climate Change on Viticulture	Compulsory			1					
	Adaptation Strategies to Climate Change	Compulsory			2					
260	Core Competences Viticulture		5	125	4	K	120 min	SL	0/125	
	Smart & Sustainable Viticulture and Meteorology	Compulsory			2					
	Viticultural Practices	Compulsory			2					
270	Science in Practice: Management and Language Skills		5	125	4	P		SL	0/125	
	Experimental Design and Project Management	Compulsory			2					
	Wine Specific English	Compulsory			2					
Total				30	750	21				

3rd Semester	Module no.	Modules Practical Semester	Compulsory/Elective	CP	Workload in h	SWS	Exam type *	Duration of exam	Examination or Coursework	Weighting for overall grade
	350	Lab Rotation 1 (Practical Phase)		15	375	1	WB		PL	15/125
		Plant Breeding	Compulsory elective 1 out of 5			1				
		Mitigation Strategies for Climate Change				1				
		Health Related Topics				1				
		Analytical Methodologies				1				
		Consumer Research				1				
	360	Lab Rotation 2 (Practical Phase)		15	375	1	WB		PL	15/125
		Plant Breeding	Compulsory elective 1 out 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	Compulsory/Elective	CP	Workload in h	SWS	Exam type *	Duration of exam	Examination or Coursework	Weighting for overall grade
	410	Master Thesis		30	750	3	RP, T, D		PL	60/125
		Thesis Proposal	Compulsory	9		1				
		Thesis	Compulsory	16		1				
		Thesis Defense	Compulsory	5		1				
Total			30	750	3					

Total degree program				120	3000	53				125/125
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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 type:

A = Assignments

CS = Case Study

D = Defence

K = Written Exam

P = Presentation

RP = Research Proposal

T = Thesis

WB = Scientific Report