

Doctoral program UN790 Epidemiology

Information event, October 2nd, 2023

Univ.-Prof.ⁱⁿ Mag.^a Dr.ⁱⁿ Eva Schernhammer, DrPH

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Department of Epidemiology

Today's agenda

- **Welcome to the Epidemiology program**
- The UN790 doctoral programs
 - Admission
 - Overview curriculum
 - Compulsory courses
 - **Epidemiology specific courses**
 - Basic Lecture
 - Practical Seminar
 - Journal Club
 - Thesis Seminars
 - Thesis proposal
 - Thesis submission
 - Thesis defense
- Miscellaneous

Epidemiology program

Program Coordination

Program coordinator

Univ.-Prof.ⁱⁿ Mag.^a Dr.ⁱⁿ Eva Schernhammer, DrPH



Program administrator

Gudrun Stock-Baumgarnter, MBA



Contact: phd-epidemiology@meduniwien.ac.at

<https://public-health.meduniwien.ac.at/unsere-abteilungen/abteilung-fuer-epidemiologie/studium-ausweiterbildung/studium-lehre/dr-scient/>

Welcome to the epidemiology program

- **Population-based research** in health promotion and disease prevention
- **Understanding origins and determinants** of health and disease across populations
- **Communicable and non-communicable diseases**
- **Chronic and infectious disease epidemiology**
- **Epidemiological methods (Causal inference)**
- **Computationally intensive methods**

Lecturers at the Department of Epidemiology



The UN790 doctoral program

Source (accessed September 2023)

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/rules/>

UN 790 Main characteristics (from the curriculum)

§ 1. The doctoral programme in applied medical science at the Medical University of Vienna serves to further develop the ability for independent scientific work in medical and medicine-associated professions. It is designed to cultivate and enhance the University's performance in applied research through the symbiosis of research and practice. Furthermore, it aims to equip students with critical, analytical and argumentative skills.

The doctoral programme in applied medical science is intended for interested young researchers as well as practitioners who want to relate research to biomedical and clinical practice development and use science in the profession. Under guidance, dissertation students become highly qualified practitioners who want to explore and develop their own professional practice. The training and promotion of young scientists with a scientific attitude is carried out in accordance with the guidelines of the Medical University of Vienna (GOOD SCIENTIFIC PRACTICE - Ethics in Science and Research, Guidelines of the Medical University of Vienna).

With more than 21% of the total study duration, the emphasis is on guided teaching, which is an integral and key part of the programme to provide practice-oriented skills in the respective medical faculty. The research part is equivalent to the PhD and should result in an original dissertation with accompanying publications in reputable journals. Particular attention is to be placed on the interdisciplinary character of the subject matter. Thus, the doctorate in applied medical science serves the dissemination, development and management of professional medical practice.

Source (accessed September 2023)

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/rules/>

UN 790 Main characteristics (from the curriculum)

After completion of the dissertation, the doctoral candidates have to meet the following profile for the practice of science in the profession. This provides the qualification to work in a specific field of medicine:

- a. Seeking for the application of knowledge, as opposed to basic science oriented PhD doctoral students,
- b. Cultivation of progress in theoretical and practical qualifications at a high standard,
- c. Knowledge of a range of biomedical methods and their application in medical research and practice,
- d. ongoing improvement of their practice through research,
- e. Effectiveness as professional practitioners,
- f. Ability to carry personal responsibility and autonomous initiative in complicated and unpredictable situations in the specific subject,
- g. Ability to conceive, design, implement and adapt a research project with scientific integrity,
- h. Ability to make judgments relevant to medicine in the field and be able to communicate these effectively to both specialist and non-specialist audiences,
- i. Ability to drive technological, social or cultural advances in a scientific society in an applied manner within academic and professional contexts.

Source (accessed September 2023)

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/rules/>

Successful completion

Based on

- Passing **all relevant courses**
- Submitted and **approved thesis**
- **Thesis defense**
- Conferred degree: **Doctor scientiae medicae (Dr.scient.med.)**

Admission

UN 790 Admission requirements

Qualifications	Completed diploma program in human medicine, dentistry or natural science/technical subject
Supervision	Dissertation topic within the framework of a research project; Supervision commitment by a supervisor with the relevant qualifications
Funding and Employment	Relevant funding or employment dedicated to the doctoral project (research grant, fellowship, employment at the MUW/AKH)
Admission documents	See admission check list (next pages)

Once you have identified a thesis topic together with a funding source and a committed supervisor, get in touch with the program director at phd-epidemiology@meduniwien.ac.at

UN790 Admission checklist including link to admission platforms



Checkliste – Zulassung Doktoratsstudium UN790

Link UN790 Anmeldung und Zulassung: <https://www.meduniwien.ac.at/web/studium-weiterbildung/phd-und-doktoratsstudien/doktoratsstudium-der-angewandten-medizinischen-wissenschaft-un790/>

Application Form	<input type="checkbox"/>
Dissertationskonzept	<input type="checkbox"/>
<p>WICHTIG:</p> <ul style="list-style-type: none"> - akkreditierte/r Supervisor/in; nur eine/n Supervisor/in angeben (Junior oder Senior ist hier nicht relevant) - Informationen zum angegebenen Projekt des Supervisor/in müssen vollständig angegeben werden (Supervisor/in muss über ein aktuell bewilligtes Drittmittelprojekt verfügen und dieses muss im Dissertationskonzept angegeben werde; das Drittmittelprojekt muss nicht in direktem Zusammenhang mit dem Dissertationsprojekt stehen) - Bewilligungsdokument des angegebenen Drittmittelprojekts anhängen (z.B. Projektmeldebestätigung, Fördervertrag, SAP Ausdruck) - Notwendige Unterschriften und Stempel einholen - Das Formular elektronisch ausfüllen, bei Thesis Project aims, milestones and results expected – reichen Stichwörter aus 	
*Maturazeugnis	<input type="checkbox"/>
*Abschlussbestätigung der absolvierten Studien	<input type="checkbox"/>
*Eligibility Certification (für Antragsteller ohne EEA Staatsbürgerschaft)	<input type="checkbox"/>
Lebenslauf	<input type="checkbox"/>
Foto	<input type="checkbox"/>
Kopie des Reisepasses	<input type="checkbox"/>
Nachweis der Anstellung (mind. 20 Wochenstunden)	<input type="checkbox"/>
Sollte ein Anstellungsverhältnis vorliegen, das nicht primär der Bearbeitung des Dissertationsprojekts dient, so hat der Arbeitsvertrag Dienstzeit zur Verfolgung eines wissenschaftlichen Forschungsprojekts vorzusehen. Begründung: nach Europäischen Richtlinien (http://www.eua.be/Libraries/publications-homepage-list/Salzburg_II_Recommendations) sind Doktoratsstudien keine rein berufsbegleitenden Studien.	

*Die eingereichten Dokumente die nicht in Deutsch oder Englisch ausgestellt sind, müssen auf Deutsch oder Englisch übersetzt werden und die notwendige Authentifizierung haben.

Link to admission checklist (only available in German)

- https://www.meduniwien.ac.at/web/fileadmin/content/serviceeinrichtungen/studienabteilung/studium/PhD/FormulareOktober2019/UN790/CheckListe_Zulassung_UN790.pdf

Link to admission platforms

- <https://www.meduniwien.ac.at/web/studium-weiterbildung/phd-und-doktoratsstudien/doktoratsstudium-der-angewandten-medizinischen-wissenschaft-un790/>

UN790 Admission documents

- Concept of the doctoral thesis
- Approval document of the project of the supervisor
- Application form for admission
- Eligibility certification (if required)
- Employment contract (min 20h per week) demonstrating dedicated resources to conduct the research project
- Copy of your passport
- Residency permit or similar (if applicable and required)
- Color photo (passport size)
- CV
- High school leaving certificate
- Certificates of completed studies
- Proof of English language skills

UN 790 Concept of a doctoral thesis project



Study code	Student identification number (if available)
UN790	

Concept of a doctoral thesis project (Dissertationskonzept)

Last name, first name, academic title of the student	
Last and first name of the supervisor (has to be evaluated as supervisor within a thematic programme)	
Organisational unit and department of the supervisor	
Telephone supervisor	@mail supervisor
Project of the supervisor (approval documents must be attached!) Title Funding agency Project number Date of approval Amount of support Period of support (mm.yyyy - mm.yyyy)	
Thesis project title (please do not use abbreviations)	
Thematic program to which the thesis is assigned (please select) select from pull-down menu	
Thesis project aims 1) 2) 3)	
Thesis project milestones year 1	
Thesis project milestones year 2	
Thesis project milestones year 3	
Results expected 1) 2) 3)	
Date, name, organisational unit stamp and signature of the head of the organisational unit where the thesis is carried out	
Date and signature of the supervisor	
Date and signature of the student	

Link to thesis concept form

https://www.meduniwien.ac.at/web/fileadmin/content/serviceeinrichtungen/studienabteilung/studium/PhD/Dokumente_updated_2021/UN790_Concept_ThesisProject.pdf

- Funding approval documents must be attached to the form
- In case there is a junior and senior supervisor, only the junior supervisor's signature is required for this form

UN790 Application form for admission

https://www.meduniwien.ac.at/web/fileadmin/content/serviceeinrichtungen/studienabteilung/studium/PhD/FormulareOktober2019/UN790_Application_Admission.pdf



Study Department,
Währinger Straße 25a
1090 Wien

Application for admission to the Doctoral Programme of Applied Medical Science (UN790)

(The decision is communicated via official notification)

Personal data	
Registration number (if known) / Matr.-Nr.	Academic degree
Last name	First name
Date of birth (DD.MM.YYYY)	National insurance number (if known)
Citizenship	Sex <input type="checkbox"/> male <input type="checkbox"/> female
Address (+ postal code and city)	
Telephone number	@ mail

Thematic programmes
<i>Please tick off one thematic program of your interest after consulting your thesis supervisor and the respective program coordinator.</i>
<input type="checkbox"/> Clinical Endocrinology, Metabolism and Nutrition <input type="checkbox"/> Biomedical Engineering <input type="checkbox"/> Clinical Neurosciences (CLINS) <input type="checkbox"/> POET - Programme for Organfailure, -replacement and Transplantation <input type="checkbox"/> Clinical Experimental Oncology <input type="checkbox"/> Preclinical and Clinical Research for Drug Development <input type="checkbox"/> Regeneration of Bones and Joints <input type="checkbox"/> Cardiovascular and Pulmonary Disease <input type="checkbox"/> Mental Health and Behavioural Medicine <input type="checkbox"/> Public Health
<p>At this stage selection of a thematic programme is for statistic purpose only! Definitive assignment to a thematic programme will take place after the approval of your thesis proposal by the direction of curriculum!</p>

Data on completed studies
Austrian university
<input type="checkbox"/> Graduate of the diploma studies Medicine N202 / Dentistry N203 at an Austrian university <input type="checkbox"/> Graduate of the doctoral studies of Medicine N201 / N200 at an Austrian university <input type="checkbox"/> Graduate of a diploma studies in the following field of natural science at an Austrian university:
<input type="checkbox"/> Biology <input type="checkbox"/> Zoology <input type="checkbox"/> Physics <input type="checkbox"/> Microbiology <input type="checkbox"/> Pharmacy <input type="checkbox"/> Psychology <input type="checkbox"/> Molecularbiology <input type="checkbox"/> Chemistry <input type="checkbox"/> Genetics <input type="checkbox"/> Humanbiology <input type="checkbox"/> Sports Science <input type="checkbox"/> Others:
Date of graduation (DD.MM.YYYY):
International University
Completed studies:
Name of university:
Date of graduation (DD.MM.YYYY):

I have seen the web site of the Doctoral Programme of Applied Medical Science N790 and know the rules and requirements. I am aware that the Doctoral Programme of Applied Medical Science N790 is a full-time equivalent with a minimum duration of three years.

Date (DD.MM.YYYY)	Signature of applicant
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(UN790) Admission period

Winter semester 2023/24

10 July 2023 - 05 September 2023	General admission period
06 September 2023 - 31 October 2023	Exception period (65 Abs. 2 UG)

Summer semester 2024

08 January 2024- 05 February 2024	General admission period
06 February 2024 - 31 March 2024	Exception period (65 Abs. 2 UG)

Information for NON-EU candidates:

Applications can be made for admission to the "preliminary course":

- no later than 5 September for winter semesters
- no later than 5 February for summer semesters

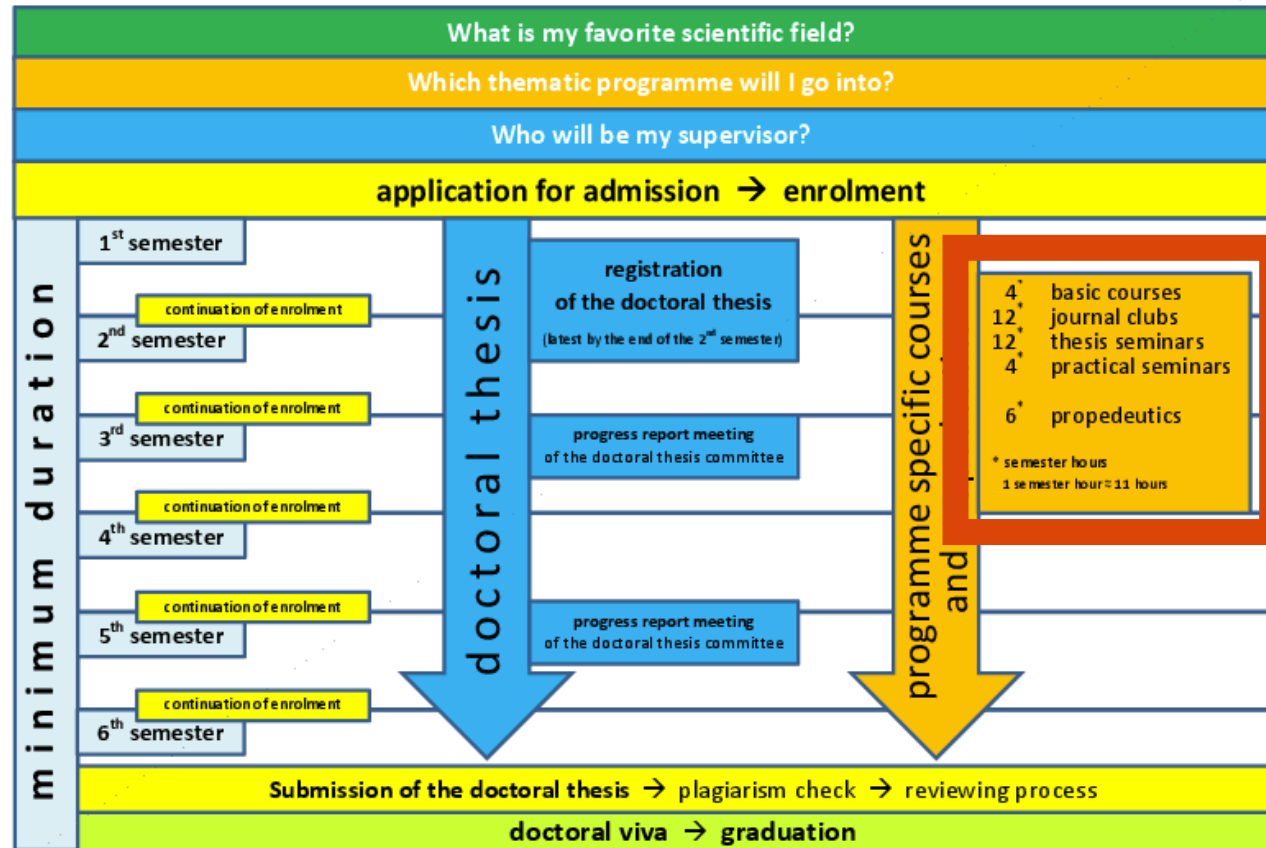
Program structure



Flow chart N790 general



Flow Chart Doctoral Programme of Applied Medical Science N790



<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/flow-chart-at-a-glance/>

Type of courses

(1) TYPES OF COURSES:

- a) **LECTURES:** These are designed to introduce the basic concepts and systematics and display the scientific background of the respective topic; furthermore, they serve to create cross-connections and explain complicated facts.
- b) **SEMINARS:** They represent an important training method for the acquisition of knowledge, whereby above all, the skills are learned to apply the acquired knowledge to the analysis and solution of questions through the active participation of the students. With this form of teaching, particularly the independent examination of theoretical problems on a scientific basis is taught.
- c) **PRACTICE SEMINARS:** These serve to acquire skills and abilities as well as an appropriate humane, scientific and social attitude for professional practice in the respective faculties.
- d) **JOURNAL CLUBS:** These are for learning how to critically evaluate and discuss the scientific literature in regular sessions, generally on a weekly basis, where recently published scientific articles are analysed and discussed.

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790-202/rules/>

Compulsory courses

(2) **COMPULSORY COURSES:** This refers to courses and academic achievements that are compulsory for all students of the degree programme.

- a) **Preparatory course:** Introductory lectures and seminars totalling 6 semester hours are to be set aside for this purpose, whereby the focus for medical students is to be on natural science courses, and for non-medical students on medical courses. The general teachings of the preparatory course serve to acquire general skills and abilities for a professional life as a scientist.
- b) **BASIC COURSE:** An interdisciplinary interactive course cycle covering the respective programme topic in its entirety shall be established with a total of 4 semester hours.
- c) **PHD-SYMPOSIUM:** Students actively participate in at least one PhD symposium of the Medical University of Vienna and give a presentation on their dissertation project. The participation and presentation activity is to be confirmed by the responsible chairperson(s) of the session/workshop in which the lecture is given/the poster is presented and is assessed with 6 ECTS.
- d) **Drafting and defending the WORK PLAN (DISSERTATION PLAN):** The students have to draft a work plan (dissertation plan) together with the supervisor and defend it in front of the dissertation committee. The writing and defence of the work plan (dissertation plan) is assessed with 10 ECTS.

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790->

Compulsory elective subjects

- (3) **COMPULSORY ELECTIVE SUBJECTS:** Within the scope of the compulsory elective part of the courses, students are required to complete dissertation seminars and practical seminars totalling 16 semester hours and **JOURNAL CLUBS** totalling 12 semester hours.
- a) **SEMINARS FOR DOCTORAL CANDIDATES** are courses to be completed for a total of 12 semester hours, dealing with special aspects of the programme topics and specific methods.
 - b) **PRACTICAL SEMINARS** to learn skills are to be scheduled for a total of 4 semester hours.
 - c) **JOURNAL CLUBS** are courses dealing with programme-specific literature. They are to be established for a total of 12 semester hours.

Doctoral candidates and supervisors are expected to attend seminars and journal clubs on a regular basis.

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790-202/rules/>

UN790 (compared to UN094)

<i>Courses</i>	<i>Semester hours</i>	<i>ECTS Points</i>
1. Semester:		
Preparatory course	4	4
Basic course	2	2
Journal Club	2	3
Dissertation seminar	2	3
Dissertation – work schedule/dissertation plan (compilation and defence)	-	10
2. Semester:		
Preparatory course	2	2
Basic course	2	2
Journal Club	2	3
Dissertation seminar	2	3

UN790 (compared to UN094)

3. Semester:		
Practice seminar	2	3
Journal Club	2	3
Dissertation seminar	2	3
4. Semester:		
Practice seminar	2	3
Journal Club	2	3
Dissertation seminar	2	3
Doctoral thesis - Presentation PhD Symposium		6

UN790 (compared to UN094)

<i>5. Semester:</i>		
Journal Club	2	3
Dissertation seminar	2	3
<i>6. Semester:</i>		
Journal Club	2	3
Dissertation seminar	2	3
<i>Doctoral thesis - drafting the paper</i>		112
Total	38	180

Preparatory courses (Propedeutics)

Compulsory selection:

- Ethics and Good Scientific Practice (1 SWS)
- Project Management and Intellectual Property Rights (1 SWS)

Additionally (compulsory)

4 SWS (4 ETCS) propedeutics

- Selection to be discussed with the supervisor
- Needs to be indicated on the thesis registration form
- To be considered:

Doctorands with a non-medical diploma have to complete at least one of the two "Medical Propedeutics".
Doctorands with a medical diploma are not permitted to attend either of the two "Medical Propedeutics".

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/flow-chart-at-a-glance/>

Propedeutics

<https://campus.meduniwien.ac.at>

The screenshot displays the Med.Campus interface. On the left is a navigation tree for the Medizinische Universität Wien, with 'Propedeutics' selected under 'PhD-Studium UN094'. The main content area features a search bar and a section titled 'Organisationsinformation' with the heading '8600 Propedeutics'. Below this are four columns of links: 'Forschung & Lehre' (Module/Lehrveranstaltungen, Modulhandbuch, Lehrveranstaltungen, SPO-Portfolio), 'Studium' (Studierendenkartei), 'Ressourcen' (Funktionen, Personen, LV Evaluierung, Schulungsunterlagen), and 'Dienste' (Ressourcenbelegung, Suche freie Ressource). Two red arrows point from the navigation menu to the 'Propedeutics' folder and the 'Forschung & Lehre' column. A footer contains copyright information for 2023 Medizinische Universität Wien.

Propedeutics

11 Einträge vorhanden

Semester

LV-Nr	Sem.	Term.	Titel	Dauer	Art	Teil/Prüf/Eval/Info	SPO P/W/Dr	Vortragende*r (Mitwirkende*r)	betr. Org.	Unterrichts-/ Lehrsprachen
Wintersemester										
502.356	W	🕒	Propedeutics: Medical Biostatistics I - WS 2023/24 ☆	2	SE	👍 🗑️ 🔄	2/0/2	Gleiss A , Mittböck M	8600	Englisch
502.402	W	🕒	Propedeutics: Methods in Molecular Biology and Biochemistry - WS 2023/24 ☆	2	VO	👍 🗑️ 🔄	2/0/2	Ogris E , Dong G , Frohner I , ...	8600	Englisch
502.443	W	🕒	Propedeutics: Medical Biostatistics II - WS 2023/24 ☆	2	SE	👍 🗑️ 🔄	2/0/2	Heinze G	8600	Englisch
502.466	W	🕒	Propedeutics: Experimental Biomedical Studies in Animals - WS 2023/24 ☆	3	VO	👍 🗑️ 🔄	2/0/2	Bergmeister H , Podesser B , Bilic P , ...	8600	Englisch
860.032	W	🕒	Propedeutics: Preparatory Course Medical Biostatistics - WS 2023/24 ☆	1	SE	👍 🗑️ 🔄	2/0/2	Kainz A	8600	Englisch
860.040	W	🕒	Propedeutics: Introduction to Medical Imaging and Biomedical Engineering - WS 2023/24 ☆	2	VO	👍 🗑️ 🔄	2/0/2	Rausch I , Baumann B , Bijak M , ...	8600	Englisch
860.070	W	🕒	Propedeutics: Basic Data Literacy for Aspiring Life Scientists - WS 2023/24 ☆	2	SE	👍 🗑️ 🔄	2/0/2	Hochreiter B , Tolios A	8600	Englisch
901.605	W	🕒	Propedeutics: Ethics in Medicine and Good Scientific Practice - WS 2023/24 ☆	1	SE	👍 🗑️ 🔄	2/0/2	Dinges S , Zezula J	8600	Englisch
902.216	W	🕒	Propedeutics: Scientific Software and Databases - WS 2023/24 ☆	2	SE	👍 🗑️ 🔄	2/0/2	Schmid J , Tolios A	8600	Englisch
902.726	W	🕒	Propedeutics: Intellectual property rights and project management - WS 2023/24 ☆	1	VO	👍 🗑️ 🔄	2/0/2	Kolbus A , Einzinger J , Ernst-Ballaun C , ...	8600	Englisch
902.750	W	🕒	Propedeutics: BenchPress. A guide to scientific writing beginning at the worktable and ending in publication - WS 2023/24 ☆	1	VO	👍 🗑️ 🔄	2/0/2	Gurvitz A	8600	Englisch

Compulsory (elective) courses – offered at the Department of Epidemiology

Epidemiology specific courses

The screenshot displays the Med.Campus interface for the course 8511 Epidemiology. The left sidebar contains a navigation tree for the Medizinische Universität Wien, with 'Epidemiology' highlighted. The main content area shows the course title, program coordinator, and four functional categories: 'Forschung & Lehre', 'Studium', 'Ressourcen', and 'Dienste'. Each category contains several links to course-related resources.

Med.Campus Bedie

MedUni Wien > Studien- und Lehrangebot > Doktorat der angewandten med. Wissenschaft UN790 > Epidemiology Suche

Medizinische Universität Wien

- Rektorat
- Universitätsrat
- Senat
- Gremien
- Serviceeinrichtungen
- Nichtklinische Organisationseinheiten
- Klinische Organisationseinheiten
- Organisationseinheiten mit spez. Aufgaben
- Tochtergesellschaften
- Vereine
- externe Einrichtungen
- Studien- und Lehrangebot
 - Humanmedizin UN202
 - Zahnmedizin UN203
 - Doktorat der angewandten med. Wissenschaft UN790
 - Clinical Endocrinology, Metabolism and Nutrition
 - Clinical Neurosciences (CNS)
 - Experimental and Clinical Research
 - Biomedical Engineering
 - Program for Organfailure
 - Cardiovascular and pulmonary medicine
 - Musculoskeletal and Dermatology
 - Mental Health and Behavioral Science
 - Preclinical and Clinical Research
 - Public Health
 - Epidemiology**
 - PhD-Studium UN094
 - Masterstudium Medizinische Fakultät
 - Masterstudium Molekulare Pharmazie

Organisationsinformation

8511 Epidemiology

Programmkordinatorin

Forschung & Lehre

- Module/Lehrveranstaltungen
- Modulhandbuch
- Lehrveranstaltungen
- Prüfungsmanagement
- LV Erhebung
- SPO-Portfolio

Studium

- Studierendenkartei

Ressourcen

- Funktionen
- Personen
- LV Evaluierung
- Schulungsunterlagen

Dienste

- Ressourcenbelegung
- Suche freie Ressource

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Epidemiology specific courses

5 Einträge vorhanden

Semester

LV-Nr	Sem.	Term.	Titel	Dauer	Art	Teil/Prüf/Eval/Info	SPO P/W/Dr	Vortragende*r (Mitwirkende*r)	betr. Org.	Unterrichts-/Lehrsprachen
Wintersemester										
851.004	W		JC Epidemiology ☆	2	SE		1/0/1	Erber A , Schernhammer E , Zebrowska M	8511	Englisch
851.005	W		TS Epidemiology Individual ☆	2	SE		1/0/1	Schernhammer E	8511	Englisch
851.006	W		Basic Lectures: Epidemiology - Series 1 ☆	2	VO		1/0/1	Aberle J , Bergthaler A , Grabovac I , ...	8511	Englisch
851.009	W		TS Epidemiology ☆	2	SE		1/0/1	Schernhammer E , Strohmaier S	8511	Englisch
851.099	W		PS Epidemiological Methods ☆	2	PX		1/0/1	Erber A , Kronsteiner-Gicevic S , Papantoniou K , ...	8511	Englisch

Basic Lecture 1

- **Basic Lecture 1 (and 2 in the next semester)** are **compulsory** for everyone in the epidemiology program
- **Course dates**
 - **Wed, October 11 (15:00 – 20:00)**
 - Wed, October 18 (15:00 – 20:00)
 - Wed, November 8 (15:00 – 20:00)
 - Wed, November 29 (15:00 – 20:00)
 - Wed, December 13 (15:00 – 20:00)
- Supported on MedCampus and Moodle

Basic Lecture 1 – Schedule and topics

Wednesday, October 11, 2023 (Host: Schernhammer E)		
15:00-15:30	Welcome (Vice-Rector Education Rieder A) Intro, course overview, requirements	Schernhammer E, Strohmaier S, Waldhör T
15:30-16:30	Review of epidemiological study designs (context chronic disease epidemiology)	Papantoniou K
16:30-16:40	Break	
Principles of chronic disease epidemiology		
16:40-17:40	Cancer epidemiology	Papantoniou K
17:40-17:45	Break	
17:45-18:45	Cardiometabolic disease epidemiology (CVD, T2DM)	Schernhammer E, Strohmaier S
18:45-18:50	Break	
18:50-20:00	Prevalence and risk factors for chronic diseases in Austria	Waldhör T
Wednesday, October 18, 2023 (Host: Schernhammer E, Grabovac I)		
15:00-16:30	Psychiatric epidemiology	Wancata J
16:30-16:45	Break	
16:45-18:15	Social epidemiology	Grabovac I
18:15-18:30	Break	
18:30-20:00	Epidemiology of aging	Grabovac I, Schernhammer E
Wednesday, November 8, 2023 (Host: Strohmaier S)		
15:00-16:30	Early life epidemiology	Gundacker C, Strohmaier S
16:30-16:45	Break	
16:45-18:15	Nutritional epidemiology II	Kronsteiner-Gicevic S
18:15-18:30	Break	
Principles of communicable disease epidemiology (Host Erber A)		
18:30-20:00	Introduction: Pathobiology of infectious diseases	Aberle J/Weseslindtner L, Wagner A

Basic Lecture 1 – Schedule and topics

Wednesday, November 29, 2023 (Host: <u>Erber A</u>)		
15:00-16:30	Epidemiology of infectious diseases including study design for infectious diseases	Schmid D
16:30-16:45	Break	
16:45-18:15	Screening and diagnostic accuracy	<u>Weseslindtner L/Aberle J</u> , Schmid D
18:15-18:30	Break	
18:30-20:00	Environmental surveillance	<u>Bergthaler A</u>
Wednesday, December 13, 2023 (Host: all)		
15:00-16:30	Vaccinology and vaccine epidemiology	Wiedermann-Schmid U, Wessely A
16:30-16:45	Break	
16:45-18:15	Infectious disease modeling	Popper N
18:15-18:30	Break	
18:30-20:00	Managing disease outbreaks: field epidemiology	<u>Strauss R</u> , Hutter H-P

Practical Seminars

- **Compulsory elective courses**
 - Requirements: total of 4 semester hours (=2 practical seminar courses with 2 semester hours each)
- Currently offered: **PS Epidemiological Methods**
- **Course dates:**
 - **Tue, October 3 (16:00 – 20:00)**
 - Tue, October 11 (16:00 – 20:00)
 - Tue, October 17 (16:00 – 20:00)
 - Tue, October 24 (16:00 – 20:00)
 - Tue, October 31 (16:00 – 20:00)
 - Tue, November 7 (16:00 – 20:00)

PS Epidemiological Methods - Syllabus

CLASS DATES	DESCRIPTION	SPEAKERS
October 3	<ul style="list-style-type: none"> - Course overview - Lecture: Introduction to epidemiology - Lecture: History of epidemiology and recent developments - Lecture: Measure of disease occurrence - In class practice exercise(s) 	<p>Astrid Erber Astrid Erber Astrid Erber</p> <p>Magdalena <u>Żebrowska</u> Magdalena <u>Żebrowska</u></p>
<p>REQUIRED READING: Yang L, Colditz, GA. <i>Prevalence of Overweight and Obesity in the United States, 2007-2012</i>. JAMA Internal Medicine. 2015; 175(8): 1412-1413</p> <p>FURTHER READING: Rothman KJ, Lash TL, Greenland S. <i>Modern Epidemiology</i>. Third edition. LWW, 2008 - Chapter 3</p>		
October 10	<ul style="list-style-type: none"> - Lecture: Case-control studies - Lecture: Cohort studies - Lecture: Measure of effect and measure of association - In class practice exercise(s) - 	<p><u>Kyriaki Papantoniou</u> <u>Kyriaki Papantoniou</u> <u>Kyriaki Papantoniou</u> <u>Kyriaki Papantoniou</u></p>
<p>REQUIRED READING: <u>Schernhammer ES, Laden F, Speizer FE, et al. <i>Rotating Night Shifts and Risk of Breast Cancer in Women Participating in the Nurses' Health Study</i>. J Natl Cancer Inst. 2001;93(20):1563-8.</u></p> <p>FURTHER READING: Rothman KJ, Lash TL, Greenland S. <i>Modern Epidemiology</i>. Third edition. LWW, 2008- Chapter 6</p>		

PS Epidemiological Methods - Syllabus

<p><u>October 17</u></p>	<ul style="list-style-type: none"> - Lecture: Intervention studies - In class practice exercise(s) - Lecture: Standardization - In class practice exercise(s) 	<p>Astrid Erber Astrid Erber Magdalena <u>Żebrowska</u> Magdalena <u>Żebrowska</u></p>
<p>October 24</p>	<ul style="list-style-type: none"> - Lecture: Linear, logistic and Poisson regression - In class practice exercise(s), PC room - Lecture: Time-to-event analysis - In class practice exercise(s), PC room - <i>Diet assessment home assignment via E-Mail</i> 	<p>Thomas <u>Waldhör</u> Thomas <u>Waldhör</u> Susanne Strohmaier Susanne Strohmaier Selma <u>Kronsteiner-Gicevic</u></p>

PS Epidemiological Methods - Syllabus

<p>October 31</p>	<ul style="list-style-type: none"> - Lecture: Screening - In class practice exercise(s) - Lecture: Nutritional epidemiology - In class practice exercise(s) - <i>Peer review exercise assignment via E-Mail</i> 	<p>Astrid Erber Astrid Erber Selma <u>Kronsteiner-Gicevic</u> Selma <u>Kronsteiner-Gicevic</u> Astrid Erber</p>
<p>REQUIRED READING: <u>Satija, A., Yu, E., Willett, W. C., & Hu, F. B. (2015). Understanding nutritional epidemiology and its role in policy. <i>Advances in nutrition</i>, 6(1), 5-18.</u> <u>Hu, F. B. (2008). Measurements of adiposity and body composition, Chapter 5 in "<i>Obesity epidemiology</i>" book, 416, 53-83.</u> OR Measuring obesity@ Obesity Prevention Source website: https://www.hsph.harvard.edu/obesity-prevention-source/obesity-definition/how-to-measure-body-fatness/</p> <p>FURTHER READING: <u>Gicevic, S., Mou, Y., Bromage, S., Fung, T. T., & Willett, W. (2021). Development of a diet quality screener for global use: Evaluation in a sample of US women. <i>Journal of the Academy of Nutrition and Dietetics</i>, 121(5), 854-871.</u></p>		
<p>November 7</p>	<ul style="list-style-type: none"> - Peer review exercise - Lecture: Infectious disease epidemiology - In class practice exercise(s) - Lecture: Summary - Wrap-up and feedback 	<p>Astrid Erber Reinhild <u>Strauss</u> Reinhild <u>Strauss</u> Susanne Strohmaier All</p>
<p>REQUIRED READING (for peer-review practice): <u>Cristaudo, A., Foddis, R., Vivaldi, A., Buselli, R., Gattini, V., Guglielmi, G, et al. SV40 Enhances the Risk of Malignant Mesothelioma among People Exposed to Asbestos: A Molecular Epidemiologic Case-Control Study. <i>Cancer Res.</i> 2005 Apr 15;65(8):3049-52.</u></p>		

Journal Clubs

- **Compulsory elective courses**
 - Requirements: total of 12 semester hours (= 6 Journal Clubs with 2 semester hours each)
 - Assessment: Minimum attendance rate and active participation
 - Currently offered: **JC Epidemiology**
 - **Course dates:**
 - **Thu, October 12 (16:00 – 19:00)**
 - Thu, November 9 (16:00 – 19:00)
 - Thu, November 23 (16:00 – 19:00)
 - Thu, December 7 (16:00 – 19:00)
 - Thu, January 11 (16:00 – 19:00)
 - Thu, January 18 (16:00 – 19:00)

Thesis seminars

- **Compulsory elective courses**
 - Requirements: total of 12 semester hours (= 6 Journal Clubs with 2 semester hours each)
 - Assessment: Minimum attendance rate and active participation
 - Currently offered:
 - **TS Epidemiology**
 - Mainly for students supervised by Eva as main supervisor
 - 6 scheduled dates, additionally individual meetings
 - **TS Epidemiology individual**
 - Flexible settings and dates for individual supervisor meetings
 - Registration: phd-epidemiology@meduniwien.ac.at

Overview Epidemiology Courses WS 2023/24


Monday	Tuesday	Wednesday	Thursday	Friday
		<p>13:00 – 14:30 SR 5, hybrid TS (2 SSt (SE)) Epidemiology</p> <p>Dates: 18.10.2023 15.11.2023 29.11.2023 13.12.2023 10.01.2024 24.01.2024</p> <p>15:00 – 20:00 Various lecture halls (see below)</p> <p>BL (2 SSt (SE)) UN790 Epidemiology Basic Lecture Series 1</p> <p>Dates: 11.10.2023 (SR 5) 18.10.2023 (SR 1) 08.11.2023 (HS 2) 29.11.2023 (HS 2) 13.12.2023 (HS 2)</p> <p>Exam 17.01.2023</p>		
	<p>16:00 – 20:00 Various lecture halls (see below)</p> <p>PS (2 SSt (SE)) Epidemiological Methods</p> <p>Dates: 03.10.2023 (SR 3) 10.10.2023 (SR 3) 17.10.2023 (SR 3) 24.10.2023 (CoSE) 31.10.2023 (HS 1) 07.11.2023 (HS 1)</p>		<p>16:00 – 19:00 Virtual</p> <p>JC (2 SSt (SE)) Epidemiology</p> <p>Dates: 12.10.2023 09.11.2023 23.11.2023 07.12.2023 11.01.2024 18.01.2024</p>	

Thesis

Thesis registration

- The doctoral thesis should be registered as soon as possible and latest by the end of the 2nd semester
- Prior steps:
 - Assemble as **thesis committee** (see thesis registration form)
 - **Prepare a thesis proposal** (also termed work plan) under supervision
 - **Defend the thesis proposal** in front of the thesis committee
 - Get **program Coordinator's approval** for the **thesis proposal**
- **Senior supervisor:**
 - In case the supervisor is a 'junior supervisor' an additional senior supervisor needs to be appointed; he/she may also be one of the two committee members.

Thesis registration form (1/4)



Study code	Registration number
UN790	

Registration of the doctoral thesis

Last and First Name

Address of service

Telephone @mail

Completed diploma

Hereby I declare that I have neither started nor completed a doctoral program at a medical faculty/medical university and that I have not/will not submit(ted) this doctoral thesis or parts of it for any other doctoral program.
I declare that I have presented my thesis proposal to the doctoral thesis supervisor, to the members of the doctoral thesis committee and to the program coordinator of the thematic program.
I declare that I acknowledge to be sworn to secrecy according to the [Non-disclosure agreement](#) of the Medical University of Vienna and to be committed to the adherence with these formalities.

Date (DD.MM.YYYY): Signature of the applicant

Preliminary working title (please do not use abbreviations)

Thematic program to which the thesis has been assigned

Name of doctoral thesis supervisor (has to be evaluated as supervisor within the thematic program)

Institute/Department:
Division:

To be carried out at the Institute/Department/Division for

Name of the head of the organizational unit

Declaration of the doctoral thesis supervisor
Hereby I agree to supervise the doctoral thesis as specified above. Required material, spatial and financial resources, as well as all permissions (e.g. statement of the ethics commission, authorization for work with genetically altered organisms, bioassay permission, radioactivity authorization, etc.) have been obtained and are current. The head of the organizational unit has been informed about the thesis assignments and has agreed to provide support.
The thesis has been integrated into a funded research project.
Please indicate the project data and add approval documents:

Project data: Scholarship (please indicate if available):
Project number: Sponsor:
Sponsor: Amount of support:
Amount of support: Period of support:
Period of support:

Date and signature of the head of the organizational unit Date and signature of the supervisor

- https://www.meduniwien.ac.at/web/fileadmin/content/serviceeinrichtungen/studienabteilung/studium/PhD/pdf/UN790_Thesis_Registration.pdf
- Details regarding PhD candidate
- Working title
- Thematic program
- Supervisor, institution and OEL
- Funding
- Signatures: OEL, supervisor

Thesis registration form (2/4)

Two further thesis committee members* suggested by the program coordinator	
Member 1*	external <input type="checkbox"/> Mentor <input type="checkbox"/>
Name:	
Institute/Clinic:	
Member 2*	external <input type="checkbox"/> Mentor <input type="checkbox"/>
Name:	
Institute/Clinic:	
The thesis plan was defended in front of the thesis committee members and approved by its two further members* on	
Signature of member 1	Signature of member 2
Senior supervisor** suggested by the program coordinator	
Name and signature:	
Institute/Clinic:	
Approval by the program coordinator	
Date:	Name and signature of the program coordinator
Approval by the direction of curriculum	
Changes:	Prof. Sylvia Knapp Co-Director

*) The thesis committee has to consist of the supervisor and at least two further individuals. One of these members must not belong to the organizational unit, to which the thesis topic is assigned (external member). The thesis committee members shall watch the progress of the thesis, at least once a year, and if necessary give an expert opinion or serve as intermediates between the doctoral candidate and the supervisor in case of problems. In addition, one of the two members shall take on the task of arbitrator (mentor) to settle disagreements between the doctorand and the supervisor in cases where that may apply. The two further thesis committee members do not have to be evaluated within the thematic program.

***) Required only if the supervisor has the status of a "junior supervisor". The "senior supervisor" has to be registered as supervisor within the thematic program.

- **Thesis committee:**

- includes 1 supervisor, max. 1 committee member from the same organizational unit, at least 1 member from outside the organizational unit
- (venia docendi or equivalent)

- **Responsibilities:**

- Mentoring and potential conflict resolution
- Yearly committee meetings (=progress report meeting), relevant form must be submitted to the department of student affairs
- **Signatures:** committee, senior supervisor, program coordinator

Thesis registration form (3/4)



PROPEDEUTICS

Propedeutics are an important part of the doctoral program. It has to be completed by the end of the 4th semester and comprises a choice of medical and basic courses, of which 6 semester hours are obligatory. There is mandatory 1 semester hour in each „Ethics and Good Scientific Practice“ and „Project management and intellectual property rights“.

4 semester hours can be chosen from the pool of the following courses. The selection has to be done under the supervision of the thesis committee and the program coordinator and is dependent on the undergraduate education and the selected thematic program.

Doctorands with a non-medical diploma have to complete at least one of the two "Medical Propedeutics". Doctorands with a medical diploma are not permitted to attend either of the two "Medical Propedeutics".

Compulsory:	Semester hours
Ethics and Good Scientific Practice	1 SWSt
Project management and intellectual property rights	1 SWSt

To be selected:	Semester hours	Choice
Medical Propedeutics – Anatomy and Physiology	2 SWSt	<input type="checkbox"/>
Medical Propedeutics – Linking Biology and Diseases	2 SWSt	<input type="checkbox"/>
Molecular and Cell Biology for Medics	2 SWSt	<input type="checkbox"/>
Methods of Life Sciences	2 SWSt	<input type="checkbox"/>
Methods in Molecular Biology and Biochemistry	2 SWSt	<input type="checkbox"/>
Medical Biostatistics I	2 SWSt	<input type="checkbox"/>
Medical Biostatistics II	2 SWSt	<input type="checkbox"/>
Scientific Software and Databases	2 SWSt	<input type="checkbox"/>
Cardiovascular in vitro and vivo techniques	3 SWSt	<input type="checkbox"/>
Preparatory Course Medical Biostatistics	1 SWSt	<input type="checkbox"/>
Statistical planning and analysis of Animal Experiments	2 SWSt	<input type="checkbox"/>
Introduction to Medical Imaging and Biomedical Engineering	2 SWSt	<input type="checkbox"/>
Experimental Biomedical Studies in Animals	3 SWSt	<input type="checkbox"/>
BenchPress. A guide to scientific writing beginning at the worktable	1 SWSt	<input type="checkbox"/>
Basic Data Literacy for Aspiring Life Scientists	2 SWSt	<input type="checkbox"/>

Signature of the applicant: _____

Signature of the supervisor: _____

Signature of the program coordinator: _____

1 SWSt (1 semester hour) = 15 academic hours a 45 minutes

- **Selection of propedeutics** should be discussed with the supervisor
- **Reminder:**
 - 2 compulsory courses
 - Candidates with a medical degree should not attend the medical propedeutics, candidates with a non-medical degree have to take at least one of the medical propedeutics
- **Signatures:** supervisor, doctoral candidate, program coordinator

Thesis registration form (4/4)

This form has to be filled in and signed by the supervisor in connection with each thesis registration!

Essentielle Eckpunkte der Dissertationsbetreuung an der MedUni Wien

1. *Führung und Hilfestellung bzgl. eines Dissertationsprojekts*
2. *Einschätzung der notwendigen Ausbildung und Führung bzw. Hilfestellung bei Auswahl und Besuch der Lehrveranstaltungen*
3. *Integration der Studierenden in eine aktive Forschungsgruppe oder in ein Forschungsnetzwerk*
4. *Hilfe bei der Erstellung und Einreichung des Dissertationsplans innerhalb von 6 Monaten nach Inskription*
5. *Engmaschige Kontrolle und Anleitung bei der Durchführung der Dissertation*
6. *Vermittlung von wissenschaftlicher Kommunikationskompetenz*
7. *Unterstützung der DissertantInnen bei der aktiven Teilnahme und persönliche Teilnahme am jährlichen PhD Symposium der MedUni Wien*
8. *Aktive Teilnahme am Unterricht (besonders DissertantInnen-Seminare) innerhalb des gewählten Programms, Teilnahme an Rigorosen und Anleitung der Studierenden für die Journal Clubs*
9. *Unterstützung der DissertantInnen bei der aktiven Teilnahme an internationalen Kongressen*
10. *Hilfestellung bei der Erstellung eines Erstautomanuskripts und der Dissertation*

Ich bin BetreuerIn im thematischen Programm/in den thematischen Programmen

und habe die obengenannten Richtlinien zur Kenntnis genommen.

Vorname, Nachname BetreuerIn Datum, Unterschrift

Vorname, Nachname Studierende/r Datum, Unterschrift

- Supervisor declaration
- **Signatures:** supervisor, doctoral candidate

Thesis Proposal (work plan)

- Follow the **instructions in the form**
- Check to fulfill all **formality requirements**
- **Send word file (editable) to phd-epidemiology@meduniwien.ac.at**

Thesis Proposal (work plan)

- https://www.meduniwien.ac.at/web/fileadmin/content/serviceeinrichtungen/studienabteilung/studium/PhD/FormulareOktober2019/UN790_ThesisProposal_01_2020.pdf

THESIS PROPOSAL for the Doctoral Program at the Medical University of Vienna

Please adhere to the following instructions:

1. The thesis proposal should be structured in the style of a research grant, using the provided template.
2. Choose a clear **title** that covers your project (this is considered a "working title", as you might adjust the title later during your studies, depending on results obtained).
3. Write a **project summary** (that also states your **objectives**). At the bottom of the page, add 1 sentence explaining the **innovative aspects** of your project and why it is important to the medical/scientific field.
4. Provide a concise **scientific background** and show/explain preliminary (or published, if applicable) data that form the basis of your project. We recommend using illustrations (such as graphical abstracts or data graphs). State a clear and novel hypothesis and explain the main objectives/aims you want to address.
5. **Work plan:** Describe in detail how you plan to address your objectives/aims, mentioning the methods and techniques you will apply as precisely as possible. Add additional pages should you address more than three objectives/aims.
6. **Time plan:** fill in the table using bullet points.
7. Provide a statement about **contingency plans** you intend to follow, should your initial approach fail due to unforeseeable reasons.
8. Briefly explain the **statistical methods** you will use to analyze your data.
9. Write how you plan to address **ethical and sex considerations** (e.g. using animals or human/patient samples).
10. Abbreviations:
 - Do not use abbreviations in the title.
 - Write out abbreviations when first mentioned in the text.
 - Add an alphabetical list of **abbreviations**.
11. **Format:** font Arial, size 11, 1.5 spacing; You can use figures/illustrations/flow charts throughout the proposal to support your ideas.

THESIS PROPOSAL for the Doctoral Program at the Medical University of Vienna

Working title: _____

Applicant: _____
First name, last name, acad. degree

Undergraduate: _____
Degree (e.g. MD, MSc, VM, etc.)

E-mail: _____@students.meduniwien.ac.at

Institution: _____
Department/Institute where thesis will be performed

Address cont.

Supervisor: _____
Name of supervisor and affiliation (if different from 'Institution')

Source of funding: _____
Name of funding institution and project number

Signature of the applicant

Thesis Proposal (work plan)

- Project summary and objectives** (200 – 250 words)
- Innovative Aspects | Importance to the field** (1 sentence)
- Scientific background & preliminary data** (min. 350 words, max 2 pages; adding illustrations and/or preliminary data is recommended)
- Work plan – Objective/Aim 1:** (min. 300 words, max. 500 words)
- Work Plan – Objective/Aim 2:** (min. 300 words, max. 500 words)
- Work Plan – Objective/Aim 3:** (min. 300 words, max. 500 words)
- Contingency Plans** (minimum 100 words)
Summarize strategies to be applied should the proposed techniques and approaches turn out to not be successful or feasible.
- Statistical Analysis Plan** (minimum 100 words). If not applicable, please provide an explanation.
- Ethical and Sex Considerations** (provide a brief statement, if applicable)
- List of Abbreviations** (in alphabetical order)
- References** (max. 50)

Time plan (bullet points)

Tasks	1 st year		2 nd year		3 rd year	
	Months 1-6	Months 7-12	Months 13-18	Months 19-24	Months 25-30	Months 31-36

Summary thesis registration to-do's

- Prepare **thesis registration** from
 - Obtain **signatures** from
 - Supervisor(s)
 - OEL (leader of the organizational unit)
 - 2 thesis committee members
- **Prepare and defend the thesis proposal**
- Obtain **program coordinator approval** for the thesis proposal
- Obtain **program coordinator signatures** → send to phd-epidemiology@meduniwien.ac.at
 - 1) signed copy of the thesis registration from
 - 2) copy of the final thesis proposal
- **Submit** the signed documents to the **Department of Student Affairs** together with proof of funding
- Documents will finally be **reviewed and approved by the MUV (Deputy) Curriculum Director**

Progress report meeting



MEDICAL UNIVERSITY
OF VIENNA

Please send filled in and signed form to
Medical University of Vienna
Department for Student Affairs
Währinger Straße 25a, 1090 Wien
Email: pld@meduniwien.ac.at

Progress report meeting of the doctoral thesis committee

Candidate: Registration number:

Title of the doctoral thesis:

Date:

Members of the doctoral thesis committee:

Supervisor:
Name:
Institute/Department:

Member 1:
Name:
Institute/Department:

Member 2:
Name:
Institute/Department:

Progress report protocol: (use extra sheet if required)

Signature Supervisor

Signature Member 1

Signature Member 2

- At least once a year your progress should be discussed in a joint meeting of the thesis committee
- The respective form should be filled out, signed and sent to the Department of Student Affairs

Thesis criteria

Doctoral thesis

§ 7. (1) The doctoral thesis, written and publicly defended, provides the final proof that the candidate has acquired the knowledge and skills to work independently and competently in science. With the doctoral thesis, the candidate demonstrates that he/she can solve an essential scientific problem successfully and with increasing independence and understands how the new results are to be placed in the framework of the current state of knowledge.

Source (accessed September 2023)

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790-202/rules/>

Formal thesis requirements

Recommended thesis outline:

Cover page with Meduniwien logo

Declaration (numerated as ii) regarding where the work was done (Institutes, laboratories) and what part of the work was carried out by people other than the student (contributions of collaborators, technicians, and supervisors).

Table of contents (iii and onwards), with no more than three numerated layers (i.e. 1.1.1 followed by 1.1.2, etc. Avoid 1.2.3.4 and instead consider italicizing further subtitles).

A prologue (2.1) should help the reader link the Introduction to the student's first paper, and additionally underline the student's specific contributions to the inserted published work. Similarly, the interludes (2.1.1 etc) should assist the student to link any subsequent papers to the previous ones, making for better reading but also reaffirming student contribution to the chronicled work.

TABLE OF CONTENTS

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Table of contents.....	iii
List of figures.....	x
List of tables.....	xviii
Abstract.....	xix
Publications arising from this thesis.....	xxiii
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CHAPTER ONE: INTRODUCTION

1. General introduction.....	1-29
1.9 Aims of this thesis.....	30 (three to six discrete aims)

CHAPTER TWO: RESULTS

2.1 Prologue.....	31
2.1.1 PDF of first paper.....	32-40
2.2. Interlude.....	41
2.2.1 PDF of potential second paper.....	42-50
2.3 Interlude.....	51
2.3.1 PDF of potential third paper.....	52-60

CHAPTER THREE: DISCUSSION

3.1 General discussion.....	60-79
3.9 Conclusion & future prospects.....	80

CHAPTER FOUR: MATERIALS & METHODS

4.1 Materials.....	81-82
4.2 Methods.....	83-100

REFERENCES.....	101 and onwards
According to EMBO J	

APPENDIX

CV

Doctoral thesis at the Medical University of Vienna
for obtaining the academic degree

Doctor of Medical Science

Submitted by

Title, first name and last name of the doctorand

Supervisor:

Title, first name and last name
Name and address of the organisational unit/clinic

Name and address of the organisational unit/clinic
where the thesis was carried out
if the address is not identical with the above one

Vienna, date of submission (format: mm/yyyy)

• Thesis – Compilation:

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science/doctoral-thesis/doctoral-thesis-compilation/>

• Thesis – Submission

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-programme-of-applied-medical-science-un-790-202/doctoral-thesis/doctoral-thesis-submission/>



Formal thesis requirements

Recommended thesis outline:

Cover page with Meduniwien logo

Declaration (numerated as ii) regarding where the work was done (Institutes, laboratories) and what part of the work was carried out by people other than the student (contributions of collaborators, technicians, and supervisors).

Table of contents (iii and onwards), with no more than three numerated layers (i.e. 1.1.1 followed by 1.1.2, etc. Avoid 1.2.3.4 and instead consider italicizing further subtitles).

A prologue (2.1) should help the reader link the Introduction to the rest of the paper, and additionally underline the student's specific contribution to the inserted published work. Similarly, the interludes (2.1.1 etc) should help the student to link any subsequent papers to the previous ones, making reading but also reaffirming student contribution to the chronicled work.

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Doctoral thesis at the Medical University of Vienna
for obtaining the academic degree

Doctor of Medical Science

CHAPTER TWO: RESULTS

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2.1.1 PDF of first paper.....	32-40
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2.2.1 PDF of potential second paper.....	42-50
2.3 Interlude.....	51
2.3.1 PDF of potential third paper.....	52-60

• Thesis – Compilation:

<https://www.meduniwien.ac.at/web/studierende/mein->

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Thesis evaluation

(10) The dissertation completed according to the dissertation plan is to be submitted to the curriculum director. Without undue delay, the Curriculum Director has to appoint two reviewers to review and assess the dissertation (one reviewer must be a member of MedUni Vienna and one reviewer must be an external reviewer), who shall review and assess the dissertation within a maximum of four months from submission. The supervisor of the dissertation may not be consulted as a reviewer. If the dissertation is not reviewed and assessed within the deadline, the curriculum director shall assign the dissertation to one or two other reviewers for review and assessment at the request of the student.

Source (accessed September 2023)

<https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790-202/rules/>

Thesis defense (doctoral viva)

- **After positive reviewer statements** are obtained and examination board is nominated (1 chairperson + 2 further examiners) and a date for the defense is fixed
- **Public lecture** comprising
 - the doctoral thesis including current knowledge relevant for the respective scientific problem
 - the thematic field encompassing the thesis topic
- **In English**
- **Duration:**
 - Approx. 20 min lecture
 - Approx. 30 min discussion

Miscellaneous

Supervisor Status

Criteria for Junior Supervisors UN790

Kriterien zur Bestellung von Junior-Dissertationsbetreuer: innen im Studium UN790 an der MedUniWien:

1. Integration in eine aktive Forschungsgruppe oder in ein Forschungsnetzwerk.
 - 1.a. Dokumentationsform: Joint-Publikationen der letzten 6 Jahre, regelmäßige „Journal Clubs“, organisierte Seminare, Science Meetings mit Präsentationen der Ergebnisse durch PostDocs und Dissertant: innen.
 2. Verfügbarkeit von finanziellen Mitteln im Rahmen eigener Forschungsprojekte, die die Durchführung eines Dissertationsprojekts gewährleisten.
 - 2.a. Dokumentationsform: Bewilligungsdokument, Fördervertrag, SAP Ausdruck.
 3. Erfahrung in der Betreuung von Diplomarbeiten.
 - 3.a. Dokumentationsform: Min. zwei abgeschlossene Diplomarbeiten und jeweils mindestens einer zugehörigen Publikation mit den Diplomand: innen als Autor: innen, jeweils mindestens in sogenannten „Standardjournalen“. Die Antragsteller: in muss als Erst-, Letzt- oder korrespondierende Autor: in in diesen Publikationen aufscheinen.
 4. Erfolgreiche Teilnahme an Seminar „Motivation und Führung von Diplomand: innen und Dissertant: innen“ und „Rechtliche und organisatorische Aspekte der Dissertationsbetreuung“ an der MedUni Wien.
 - 4.a. Dokumentationsform: Kursbestätigung.
- https://intranet.meduniwien.ac.at/index.php?eID=dumpFile&t=f&f=5366&token=68d296ef3a5c08f5d0b070dd9ea60842b5f1d350&filetype=pdf&filename=Leitfaden_SupervisorInnen_Bewerbung_DE_Updated_082022.pdf

Criteria for Senior Supervisors UN790

Kriterien zur Bestellung von Senior-Dissertationsbetreuer: innen im Studium UN790 an der MedUni Wien:

- 1.** Integration in eine aktive Forschungsgruppe oder in ein Forschungsnetzwerk.
1.a. Dokumentationsform: Publikationen der letzten 6 Jahre.
 - 2.** Erfahrung in der Ausbildung von Dissertant: innen im Doktoratsstudium, alternativ Erfahrung in der Ausbildung anderer Mitarbeiter: innen.
2.a. Dokumentationsform: Min. zwei Erstautorpublikationen von zwei zuvor persönlich betreuten Doktoratsstudent:innen, auch als Junior-Dissertationsbetreuer:in, alternativ mindestens drei Erstautorpublikationen von drei zuvor persönlich betreuten Mitarbeiter: innen, jeweils mindestens in sogenannten „Standardjournalen“. Die Antragsteller: in muss als Letztautor: in oder korrespondierende Autor: in diesen Publikationen aufscheinen.
 - 3.** Erfahrung in der Organisation und Durchführung (klinischer) Forschungsprojekte.
 - 4.** Verfügbarkeit von finanziellen Mitteln im Rahmen eigener Forschungsprojekte, die die Durchführung eines Dissertationsprojekts gewährleisten.
4 a. Dokumentationsform: Bewilligungsdokument, Fördervertrag, etc.
 - 5.** Erfolgreiche Teilnahme am Seminar „Rechtliche und organisatorische Aspekte der Dissertationsbetreuung“ an der MedUni Wien.
5a. Dokumentationsform: Kursbestätigung.
- https://intranet.meduniwien.ac.at/index.php?eID=dumpFile&t=f&f=5366&token=68d296ef3a5c08f5d0b070dd9ea60842b5f1d350&filetype=pdf&filename=Leitfaden_SupervisorInnen_Bewerbung_DE_Updated_082022.pdf

Supervisor application

Wie werde ich registrierte Betreuer: in?

- Studienplan wählen
- Thematisches Programm wählen
- Teilnahme an den Vorbereitungsseminaren
- Bewerbungsformular ausfüllen und alle notwendigen Dokumente beilegen
- Einreichen des vollständig ausgefüllten Bewerbungsformulars bei ihrer Programmkoordinator: in
- Die Programmkoordinator: in gibt die Unterlagen für die Weiterreichung an die Arbeitsgruppe frei
- Evaluierung durch Arbeitsgruppe der Curriculumkommission/direktion
- Eventuelle Rückfragen über die Studienabteilung/Programmkordinator: innen
- Bekanntgabe der Aufnahme durch die Studienabteilung/Programmkordinator: innen

Junior-supervisors within the doctoral studies at the MUV

Name of supervisor (LAST NAME, first name):
 Organizational unit and subunit:
 Studies (N090, N094, N750):
 Thematic Program:
 Designated senior-supervisor:
 Funding source for students to be supervised:

1) Third-party funding (max. 5 starting with the most recent; attach approval documents)

Period	Organization (eg. FWF)	Short title	Total support (€)

Den angeführten Drittmittelprojekten müssen unbedingt Bewilligungsdokument beigelegt werden!



2) Local, national, international cooperations (max. 5 starting with the most recent)

Name (Last-, Firstname)	Title of project

Die Publikationen bitte unbedingt im Antrag wie vorgegeben angeben!

3) Current doctoral students

Name (Last-, Firstname)	Title of project

4) Former doctoral students (max. 5 starting with the most recent; attach theses as pdf)

Name (Last-, Firstname)	Title of the doctoral thesis

5) Former diploma students (max. 5 starting with the most recent; attach theses as pdf)

Name (Last-, Firstname)	Title of the diploma thesis

6) Other supervisions (max. 5 starting with the most recent)

Name (Last-, Firstname)	Kind of Supervision

Publications of supervised individuals as first-authors as listed under 3) to 6) (max. 5 starting with the most recent; attach papers as pdfs; reference all authors and provide the exact citation, the name of the applicant in bold letters; corresponding author underlined).



- https://intranet.meduniwien.ac.at/index.php?eID=dumpFile&t=f&f=5366&token=68d296ef3a5c08f5d0b070dd9ea60842b5f1d350&filetype=pdf&filename=Leitfaden_SupervisorInnen_Bewerbung_DE_Updated_082022.pdf

Switch to UN094 – PhD program

Crediting between the doctoral studies of the Medical University of Vienna

§ 9. (1) Courses (preparatory course, basic lecture, basic seminar, basic course, dissertation seminars, journal clubs and participation in the PhD/dissertation symposium as well as defence of the work plan/dissertation plan) completed in one of the doctoral studies of the Medical University of Vienna shall be mutually recognised in full.

(2) In the event of a transfer from the PhD programme (N094) to the doctoral programme in applied medical science (N790), students who have successfully completed all courses according to the study plan N094 and whose dissertation has been approved shall have their achievements fully recognised.

(3) The achievements of students who have successfully completed all courses according to the curriculum N790 and whose dissertation has been approved shall be fully recognised when transferring from the doctoral programme in applied medical science (N790) to the PhD programme (N094), provided that the following requirements are met:

- Existence of a first author publication by the student in the field of the dissertation topic in a top journal (ISI ranking).
- Employment from a research project for at least one year (without any involvement in possible routine clinical activities).

- <https://www.meduniwien.ac.at/web/studierende/mein-studium/doctoral-program-of-applied-medical-science-un-790-202/rules/>

How to get in touch

UN790 Epidemiology

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