

Postgraduate studies must consist of at least 40 credits, including General Studies, Research Method Studies and Research Field Specific Studies. The general studies must include the obligatory Philosophy of Medicine course, 2 credits. A maximum 50 credits of studies may be included in a doctoral degree.

Including studies older than 10 years to postgraduate studies will be considered case by case.

## **1 GENERAL STUDIES, 5-15 ECTS**

### **1.1 OBLIGATORY GENERAL STUDIES (2 ECTS)**

PGS\_1668 Philosophy of Medicine, 2 ECTS

### **1.2 OTHER GENERAL STUDIES (3-13 op)**

Other general studies may include the training listed below or other applicable training.

#### **1.2.1 Language Studies**

- KIEN3321 Englannin kieli: Advanced Academic Writing, 3 op
- KIEN3341 English Oral Presentation Skills, 3 op
- KIEN3024 Writing Grant Proposals, 2 op
- KIEN3025 Grammar for Academic Writing, 2 op
- Other Language Courses
  - o Optional language courses which support doctoral candidate's career

#### **1.2.2 Teaching or supervising**

##### *1.2.2.1 Teaching in under- or postgraduate courses, maximum 8 credits*

- Teaching in courses (lectures, laboratory courses, leading seminars or small groups, acting as assistant teacher)
- Personal supervision of laboratory work of e.g. summer trainees, researchers, students, or guests
- Credits are assigned based on course description or a statement from supervisor
- 1 credit per 10 hours of contact teaching, 1 credit per lecture

##### *1.2.2.2 Supervising advanced or Master's level studies (Master's thesis work), maximum 2 credits*

- Credits are assigned based on a statement from supervisor.

##### *1.2.2.3 Mentoring in the Faculty of Medicine mentoring programme*

- Participation for 3 years = 1 credit
- Participation for 6 years = 2 credits
- See here for a description in Finnish: <https://www.utu.fi/fi/yliopisto/laaketieteellinen-tiedekunta/koulutuksen-kehittamisyksikko/mentorointi>

#### **1.2.3 Pedagogical Training, max 10 credits, 0-10 ECTS**

Examples:

- Pedagogical Skills training offered by UTUGS:
- LUOT2295 Introduction to University Pedagogy for Doctoral Candidates, 5 credits
- UGSK0001 Multi-Professional Pedagogical Expertise (in Finnish), 3–10 credits

University Pedagogy curriculum: <https://opas.peppi.utu.fi/en/degree-programme/11228>

Faculty of Medicine specific pedagogy courses in Finnish: <https://www.utu.fi/fi/yliopisto/laaketieteellinen-tiedekunta/koulutuksen-kehittamisyksikko/koulutukset>

**POSTGRADUATE STUDIES DODont, PhD / MD, PhD / PhD/ 40 ECTS**

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**Faculty of Medicine****1.2.4 Leadership Skills, max 10 credits**

- Leadership studies included in Specialist training in Medicine or Dentistry, maximum 4 credits
- Finnish Reserve Officer training, 3 credits
- Minor in Management and Organisation offered by the Turku School of Economics
- Other leadership training

**1.2.5 General Transferable Skills***1.2.5.1 Communication Skills*

Examples:

- HTDK0041 Effective Scientific Presentations, 2 ECTS
- HTDK0040 Three Minute Thesis -training, 1 ECTS
- HTDK0023 Popularization of Science, 1 ECTS

*1.2.5.2 Entrepreneurship, Business and Law*

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- UGSB0005 Business essentials for scientists, 2 ECTS
- UGSB0004 Entrepreneurship for research professionals, 3 ECTS
- UGSO0001 Copyright and Research, 5 ECTS
- UGSO0002 Industrial Property Rights and Research, 5 ECTS
- LITO - Basic Business Studies online study module, max 10 ECTS

*1.2.5.3 Other General Transferable Skills***2 RESEARCH METHOD TRAINING, 5-20 ECTS**

The Research Methods category may include the courses listed below, or other equivalent training.

- PGS\_1542 Competence Course for Persons Who Carry Out Experimental Procedures in Animals (in Finnish) 3 ECTS
- PGS\_1675 Laboratory Animal Science Course (ENG), 2-6 ECTS
- PGS\_1405 SPSS- system (in Finnish), 1 ECTS
- PGS\_1568 Basic Statistical Analysis, SPSS Programs (in Finnish), 1 ECTS
- PGS\_1374 Statistical thinking and performing basic analyses using JMP, 2-4 ECTS
- PGS\_1732 Basics in Statistics in Clinical Research (in Finnish), 2-3 ECTS
- PGS\_1731 Survival Analysis Intensive Course
- PGS\_1792 PGS\_1792 Research Data Collection Using REDCap, 1 ECTS
- BIMA5105 Fluorescence in Bioanalytical Research, 4 ECTS
- BIMA5101 Physical Basis of Medical Imaging, 4 ECTS
- BIMA3209 Bioimage Informatics 1, 5 ECTS
- BIMA3210 Bioimage Informatics 2, 4 ECTS
- BIMA3216 Flow-cytometry Basics, 1 ECTS
- PGS\_1777 Väestötutkimuksen perusteet, 2 ECTS
- PGS\_1786 Basics of Clinical Research (in Finnish), 1 ECTS
- PGS\_1709 PET basics, 2-3 ECTS
- PGS\_1773 Literature reviews in health sciences, 3 ECTS
- PGS\_1805 Primary Care Research Course, 12 ECTS
  
- Research Method Studies recommended by Doctoral Programme
  
- Other Research Method Studies
  - Optional Research Method studies

### 3 RESEARCH FIELD SPECIFIC STUDIES, 15-30 ECTS

The Research Field Specific Studies category may include the training listed below, or other equivalent studies.

#### 3.1 RESEARCH FIELD SPECIFIC TRAINING BY DOCTORAL PROGRAMME

- Optional research field specific studies offered by the doctoral programme, with credits assigned according to participation
- E.g. annual seminars or meetings of doctoral programme, weekly seminars
- Participation in a seminar, 10 hours = 1 credit, 1 hour = min. 45 minutes
- Seminar presentation, 1 credit per presentation

#### 3.2 ACADEMIC SEMINARS AND NATIONAL SCIENTIFIC MEETINGS, MAX 15 ECTS

- Research seminars, postgraduate seminars and scientific seminars by institute, department or clinic. Seminars related to specialist training where applicable.
- Poster or oral presentation at a national scientific meeting (symposium, congress), 1 credit
- Credits awarded for only one poster presentation or oral presentation per event.
- Participation in a national scientific meeting, 10 hours = 1 credit, 1 hour = min. 45 minutes
- Maximum 2 credits awarded per event, including participation and presentation
  - Applications for registering credits should include:
    - o List of participants or certificate of attendance and, when required, a free-form clarification of seminars and their durations signed by supervisor
    - o Proof of presentation / poster
    - o Minimum 1 ECTS required for registering of credits

#### 3.3 INTERNATIONAL CONFERENCES, MAX 10 CREDITS

- Poster **OR** oral presentation at an international scientific congress, 1 credit
- Credits awarded for only one poster presentation or oral presentation per event.
- Participation in congress, 10 hours = 1 credit, 1 hour = min. 45 minutes, maximum 2 credits.
- Credits for participation only are awarded for a maximum of two events.
- Maximum 3 credits per congress (participation and presentation included).
- The following is required for registering credits for international scientific congresses
  - o Certificate of participation
  - o Proof of poster or oral presentation

#### 3.4 KOTIMAISET JA ULKOMAISET KURSSIT

- Post-graduate, specialist and other courses, workshops, summer schools (some examples listed below).
- Credits are awarded according to course schedule and participation. Unless credits are determined by course organiser, 10 hours of participation = 1 credit, 1 hour = 45 minutes.
- Examples:
  - o PGS\_2016 Molecular Virology, 2 ECTS
  - o PGS\_2197 Advanced Immunology, 2 ECTS
  - o PGS\_1537 Clinical Virology (in Finnish), 2 ECTS
  - o PGS\_2241 Basic Endocrinology and Metabolism, 1 ECTS
  - o PGS\_2242 Advanced Endocrinology and Metabolism, 2 op
- Other courses
- The following is required for registering credits for national and international courses
  - o Certificate of participation, and course schedule if requested

**3.5 SCIENTIFIC PUBLISHING, MAX 7 CREDITS****3.5.1 Writing an Academic Publication, 1–4 credits**

- A scientific article that has been approved for publishing and is not included in the doctoral candidate's thesis
  1. *Refereed scientific article in an international publication (IF appointed)*
    - 3 credits, doctoral candidate is first author and has contributed significantly.
    - 2 credits, doctoral candidate is shared first author or second author, and has contributed significantly.
    - 1 credit, doctoral candidate has participated as a researcher, author and commentator. The doctoral candidate has made a notable contribution, but the amount of work is not equal to that of a first or second author.
    - The following is required for registering credits for an internationally refereed article:
      - Publication, or a link to publication
      - Short statement from supervisor, or a statement on the roles of authors included in the publication
  2. *Refereed scientific article in a national publication*
    - 2 credits, doctoral candidate is first author and has contributed significantly.
    - 1 credit, doctoral candidate has participated as a researcher, author and commentator. The doctoral candidate has made a notable contribution, but the amount of work is not equal to that of first author.

The following is required for registering credits for a national refereed scientific article:

- Publication, or a link to publication
- Short statement from supervisor

**3.5.2 Acting as referee, 1–3 credits**

- Acting as referee for an international journal with an appointed Impact Factor, 1 op per appointment as referee
- Supervisor checks referee statement before submission
- The following is required for registering credits for acting as referee
  - Proof of acting as referee

**3.6 BOOK EXAMS, MAX 12 CREDITS**

- Doctoral programmes approve suggested book exams. The suggestion is made to the coordinator of the doctoral programme in question prior to the exam, and includes a signed statement from the supervisor concerning the suitability of the text, the credits assigned and the examiner (other than supervisor).
- As a rule, 100 pages of scientific text equals 1 credit.
- The following is required for registering credits for book exams
  - Notification from examiner that the exam has been passed

**3.7 RESEARCHER MOBILITY, SCIENTIFIC WORK OR STUDY TRIP, 0-12 ECTS****3.7.1 Researcher Mobility, Scientific Work or Study Trip**

- Attained in a university or research facility in Finland or abroad
- Thesis work in supervisor's research group does not count as an attainment
- Doctoral programme approves attainment based on supervisor's statement
- 1 week of work = 2 credits

**3.7.2 Expert Internship**

- During the internship, doctoral candidates work as experts in a field related to their training (in e.g. ministries, research facilities, private sector) in Finland or abroad
- Doctoral candidates write a report on their internship
- Doctoral programme approves attainment based on supervisor's statement and doctoral candidate's report
- 1 week of work = 2 credits

**3.8 FOLLOW-UP COMMITTEE MEETING, MAX 4 CREDITS**

- Follow-up committee meetings improve the quality of doctoral training. The goal of follow-up committee meetings is to ensure progress of thesis work and postgraduate studies, to provide external views on research undertaken by doctoral candidates, and to support doctoral candidates and supervisors in possible conflict situations. The aim is to enable successful completion of thesis work and to provide expert instruction in the field of the thesis and the execution of thesis work.
- A memo on meeting is required for registering credits

**3.9 COMPLETED APPLICABLE SPECIALIST TRAINING IN MEDICINE OR DENTISTRY, MAX 6 CREDITS**

- Scientific or methodological specialist training in a field of medicine or dentistry that supports the doctoral candidate's thesis work. Opintosuorituksen hyväksymiseen tarvitaan:
- The following is required to register credits for specialist training in medicine or dentistry
  - o Registration of completed training on the University of Turku study register service
  - o Transcript of studies or certificate of completion for specialist training completed in other Finnish university
  - o Attainments included in specialist training may not additionally be included in other categories of research field specific studies