

## **FACULTY OF SOCIAL SCIENCE AND TECHNOLOGY MANAGEMENT (SVT)**

The PhD education program is primarily an organized research training for those who are aiming for a career in higher education or research.

### **PH.D.-PROGRAMMES**

The PhD-programmes at the Faculty of Social Sciences and Technology Management cover a wide range of different areas, including:

- Geography
- Health Sciences
- Industrial Economics and Technology Management
- Education
- Research with focus on Teacher Education and School Practice
- Psychology
- Economics
- Social Anthropology
- Social Work
- Sociology
- Political Science
- Interdisciplinary Child Research
- Behaviour and Health (Joint PhD in collaboration with the Australian National University)

You will find application for admission on this website: <http://www.ntnu.edu/svt/phd-programme/forms>

### **CONTACT:**

General information is given by the following persons:

Førstekonsulent Siw Berg, phone 73 59 66 10, email: [siw.berg@svt.ntnu.no](mailto:siw.berg@svt.ntnu.no)

Førstekonsulent Siri Schive Hjelde, phone 73 59 823 5, email: [siri.schive.hjelde@svt.ntnu.no](mailto:siri.schive.hjelde@svt.ntnu.no)

Førstekonsulent Siri Garnes Kristiansen, phone 73 59 19 03, email: [siri.kristiansen@svt.ntnu.no](mailto:siri.kristiansen@svt.ntnu.no)

## **PROGRAMME DESCRIPTION FOR PHD PROGRAMS AT THE FACULTY OF SOCIAL SCIENCES AND TECHNOLOGY MANAGEMENT**

The program description is founded on the Regulations concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU), passed by the Board of NTNU on 23 January 2012, [http://www.ntnu.no/studieavd/dok/PhD\\_regulations.pdf](http://www.ntnu.no/studieavd/dok/PhD_regulations.pdf).

**For specific requirements, please see individual PhD programs.**

Procedures and administrative guidelines are available on the faculty website, <http://www.ntnu.edu/svt/phd-programme>.

### **DESCRIPTION OF THE PROGRAMME (§ 2 in PhD Regulations)**

The PhD programmes are prescribed as constituting 180 credits (3 years). The final course plan for the PhD Programme is to be shaped in joint consultation between candidate, supervisor and the department depending on the thesis area of research and the candidate's individual requirements and wishes.

### **ADMISSION (§ 5 in PhD Regulations)**

The applicant must have a master's degree within the field or equivalent education. The applicant must have a weighted average grade for the last two years of his/her master's work of B or higher in terms of NTNU's grading scale. Admission may also be given if the applicant can document equivalent qualifications.

Applicants who are unable to meet these criteria may be admitted only if they can document that they are particularly suitable candidates for education leading to a PhD degree. In special cases, applicants with other background may be admitted to the PhD program. These applicants may be required to attend special courses/qualification courses as a prerequisite for admission.

### **Application**

The application must be written in a form that can be found on the Faculty website or obtained from the Faculty of Social Sciences and Technology Management. Application requirements are described in § 5.2 of the regulations for the PhD and in the individual program descriptions.

### **PHD PLAN (§ 5.2 in PhD Regulations)**

The project plan is meant to address topics and issues, preferably related to relevant theory and existing research. Furthermore, it should give an account of methods, implementation, any risk in the project and any ethical challenges. The description of the research project is normally to be between 5 and 10 pages.

### **Funding plan, (§ 5.2 in PhD Regulations)**

Applicants must document that they have full funding, ie, means of subsistence and assets. At the time of application, funding for all three (3) years must be documented.

## **Admission procedure**

The Faculty will consider applications for admission for assessment from the relevant department. Normally, the candidate will be affiliated at the supervisor's department.

## **DECISION OF ADMISSION**

Admission decisions of applicants will be made with an emphasis on the quality of the project description, but decisions also take into account the department's expertise, professional commitment to the field and its capacity to provide guidance. A decision as to admission is based on an overall assessment of the application. The admission is formalized in a written agreement for the PhD education, see § 6 of the Regulations.

## **SUPERVISION (§§ 5.2 og 7 in PhD Regulations)**

Work on the PhD thesis constitutes active research under supervision. The supervisor's total use of time supervising is stipulated as 210 worker-hours for the entire period. This is equivalent to approx. 70 worker-hours per year for 3 years. In addition to the contract period stated between candidate and supervisor, this includes preparation, reading, complementary work, etc. If a supplementary supervisor is appointed, the number of worker-hours must be divided between the principal and supplementary supervisor.

A separate supervision contract, between the candidate, supervisors and the department is to be established. Mutual expectations, duties and responsibilities are to be specified in the contract.

## **RESIDENCY REQUIREMENT, (§ 5.3 in PhD Regulations)**

A plan for the meeting of residency requirements is to be presented in the application and in the agreement on supervision. The main purpose of the residency requirements is that the candidate will actively participate in research at, or affiliated with NTNU. In certain cases, the department may grant dispensation from the residency requirements.

## **PARTICIPATION IN ACTIVE RESEARCH GROUPS IN NORWAY AND INTERNATIONALLY (§§ 2 and 5.2 in PhD Regulations)**

The departments have extensive network of contacts within both national and international research groups. Candidates are encouraged to participate actively in these groups to establish and benefit from contacts with renowned scholars at home and abroad. It is expected that the candidate presents results from the thesis project at an international scientific conference, which will provide the possibility of making contact with colleagues in other countries.

## **REPORTING, (§ 9 in PhD Regulations)**

The candidate and main supervisor are to deliver separate annual reports on progress in accordance with the PhD Regulations § 9.

Any deviations from the progress plan and how the deviations influence the completion of the doctorate should be reported. If the main goal changes during the course of the candidate's doctoral study, this should be reported.

## **ORGANIZED ACADEMIC COURSE WORK (§ 8 in PhD Regulations)**

The academic training is to complement the research work with the thesis, as well as provide academic expertise. The candidate will develop an independent and reflective approach to his/herr own and others' research, and the role of research in a larger context. The mandatory organized academic course work equals one semester's full time work, i.e. a minimum of 30 credits (PhD in economics: 45 credits). The organized academic training component consists of three courses, theory of science, methodology and a theoretical/substantial course.

The candidates are encouraged to take the course SFEL8000 Philosophy of Science for the Social Sciences. The application for assessment of the thesis may be submitted only after the required coursework or other academic training has been completed and approved.

### **Structure and implementation**

The candidate is, if possible, to state in her/his application, a plan for the organized academic training component preferably in consultation with the supervisor(s). External courses/ subjects that are to be a part of the organized academic training must be approved by the department. If access to research courses makes it difficult for the applicant, within a reasonable time frame, to put together a training program that supports the thesis work, individual syllabuses may be approved as part of the training program.

In special cases, courses that are at master's level can also be approved. These cannot have been part of the candidate's master degree. When taken at the PhD level, master courses count for 2/3 of the master's degree credit. This use of master's courses must be approved by the department upon recommendation of the supervisor. For specific scope or form requirements for the academic training, see the individual PhD program.

## **The THESIS (§ 10 i PhD Regulations)**

The thesis must be an independent piece of academic work and contribute to the development of new scientific knowledge. The thesis may consist of a monograph or a compendium of several shorter scientific papers (articles).

The candidates shall specify the department as his/her address on all publications unless otherwise agreed in advance.

## **FINALIZATION**

Procedures for submission, appointment of an evaluation committee, the committee's report and assessment of the thesis, revision for new assessment, trial lecture and public defence, as well as conferment of the PhD degree - see <http://www.ntnu.edu/svt/phd-programme>.

# **STUDY PLAN FOR THE PHD-PROGRAMME IN GEOGRAPHY 2016/2017**

## **DESCRIPTION OF THE PROGRAMME** (§ 2 in PhD Regulations)

The PhD Programme in Geography is prescribed as 180 credits (3 years). The final course plan for the PhD Programme is to be formulated in joint consultation between candidate, supervisor and the Department depending on the thesis area of research and the candidate's individual requirements.

### **Objective for the PhD Programme in Geography**

The PhD Programme in Geography aims to develop the candidate's qualifications for employment that requires an advanced degree of scientific expertise. The most important element of the programme is independent research at an advanced scientific level resulting in a PhD thesis. The required course work component should complement work with the thesis, and make the candidate achieve the necessary academic requirements. The Programme is to provide the basis for independent, creative and critical reflection of one's own and others' research, as well as providing skills in communicating research results in academic and other forums.

### **Knowledge**

The candidate

- is at the forefront of knowledge production in the discipline and is able to understand, apply and evaluate theories and methodologies in research and cognate activities
- is able to contribute to the development of new knowledge, new theories, methodologies, interpretations and new ways of documenting knowledge

### **Skills**

The candidate

- is capable of formulating questions for the planning and carrying out of research at both basic and applied levels
- can conduct research at both basic and applied levels internationally
- can work with complex research questions and challenge established disciplinary knowledge and practices
- is able to make decisions based in academic and disciplinary reasoning and by applying a complex set of documentation and empirical material
- Can teach in the relevant discipline and on themes that take the candidate's own research as the starting point

### **Competence**

The candidate

- can analyse natural- or social science questions in a spatial perspective
- can identify relevant and ethically sound research questions and perform academic work with integrity
- can manage research projects and participate constructively in interdisciplinary research projects
- can disseminate research through well recognised national and international information channels
- can participate in international discussions within the discipline and within the candidate's specific research field

## **ADMISSION** (§ 5 in PhD Regulations)

The applicant must have a Master's Degree or equivalent education in Geography or M.Phil. in Development Studies or other education that the Faculty has deemed acceptable for admission to the PhD Programme in Geography. The applicant must have an average grade of B or higher from

the master's degree. Applicants who are unable to meet these criteria may be admitted if they can document that they are suitable candidates for the PhD study.

In special cases, applicants with other backgrounds than a Masters Degree or equivalent in Geography may be admitted. Applicants may in such cases be required to attend particular courses/qualifying courses as a prerequisite for admission.

Applicants must document full funding, i.e. funding for subsistence as well as needed funds to carry out the project (project money).

**Closing dates for application:**

Applications are handled continuously.

**PROPOSAL/PROJECT** (§ 5.2 in PhD Regulations)

Project description, normally 8-10 pages, should describe theme, research questions and theoretical and methodological perspectives.

**DISSEMINATION** (§ 5.2 in PhD Regulations)

All candidates must present their PhD work at academic conferences, at researcher courses and at the department's seminars (specifically as introductory seminar, mid-term seminar and final seminar)

**COURSES** (§ 8 in PhD Regulations)

The final course plan for the PhD Programme is to be formulated in joint consultation between candidate, supervisor and the Department depending on the thesis area of research and the candidate's individual requirements.

It is recommended to finalise courses early on in the PhD project. The equivalent to grade B or better is required to pass a PhD course. The candidate is responsible for registration for examination in courses within the given deadlines. Procedures concerning registration and approval of internal and external courses are described at the Faculty's web pages.

Courses should altogether constitute at least 30 credits. Application for the approval of revised course plan, if changes in plan should take place, should be sent to the department together with a recommendation from the supervisor.

The courses of the PhD project should consist of three dimensions:

Philosophy of science 10 credits

Methods 5-10 credits

Theory/thematic courses minimum 10-15 credits.

Annually, the Department of Geography organises the following researcher courses (GEOG8000/GEOG8001 Theoretical Perspectives in Geography I and II, with 10 and 5 credits respectively) in which all PhD candidates are recommended participation. Alternative courses on Theories of Geography may be approved after an application from the candidate to the Department.

The Department collaborates with Norwegian and Nordic institutions in arranging researcher courses in geography. Courses arranged by other disciplines or interdisciplinary courses will be approved if relevant for the candidate's work. Credits will be calculated according to the work load of the candidate. The Faculty approves the candidate's course plan according to the recommendation from the supervisor and the Department.

*Courses offered at NTNU that could be part of the candidate's course plan:*

Course code	Title	Credits	Semester
SFEL8000	Philosophy of Science for the Social Sciences	10	A/S**
GEOG 8000	Theoretical Perspectives in Geography	10	A*
GEOG 8001	Theoretical Perspectives in Geography II	5	A*
GEOG8523	GIS Data Capture and Mapping II	10	A*
<u>Recommended courses</u>			
	National researcher courses	10 -15	S/A
	International researcher courses	10- 15	" "

\*The courses are offered on condition that at least 3 participants sign up for them. If fewer candidates sign up, the lecturer responsible will decide whether the courses are to be alternatively arranged as individual study courses.

\*\*See information from the Faculty of Social Science and Technology Management (PhD Study Plan in Sociology). Other equivalent courses may be approved on application.

An individual reading list may be approved subject to application as part of the course-plan. Evaluation of courses takes place on the basis of written work.

#### **THESIS** (§ 10 in Ph.d. Regulations)

Requirements for the thesis and rules for evaluation are given in [Regulations](#) concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU).

If the thesis consists of a number of smaller pieces of work (normally 3-5 articles/chapters in a book), the candidate must be the sole or main author of at least half of them.

## **THE PHD PROGRAMME IN HEALTH SCIENCE 2016/2017**

### **Areas of study**

As an inter-faculty Programme, the PhD Programme in Health Science covers a wide range of areas of disciplines. Common to these areas of disciplines is the focus on human health issues, on a social, human-interactive and individual basis. Three departments contribute to the Programme: The Department of Social Work and Health Science, (Faculty of Social Sciences and Technology Management), the Department of Neuroscience and the Department of Public Health and General Practice (Faculty of Medicine).

The joint faculty procedures and administrative guidelines are found here:

Faculty of Social Sciences and Technology Management, <http://www.ntnu.edu/svt/phd-programme>.

Faculty of Medicine, <http://www.ntnu.edu/dmf/research/phd>.

### **Objective of the PhD Programme in Health Science**

After completing the PhD programme in Health Science, the candidate shall have the following general competence, knowledge and skills:

#### **Knowledge**

- the candidate is in the forefront of knowledge in his or her own professional field
- the candidate has the knowledge and skills to independently formulate research questions and plan and conduct their own studies

#### **Skills**

- the candidate has the knowledge and skills to analyze, interpret and critically evaluate his/her own and others' studies, and place these in a larger context
- the candidate can present research results in oral and written forms through recognized national and international channels

#### **Competence**

- the candidate has an understanding and knowledge of ethical frameworks and legislation related to research in the field
- the candidate can contribute to the development of new knowledge, new theories, methods of interpretation and documentation in the field

### **ADMISSION (§ 5 in Regulations)**

The applicant must have a Master's degree within the fields of Health Science, Medicine, Human Movement Science, Social Sciences or an equivalent education.

### **The application**

It is preferred that the PhD plan, including the project description, is written in cooperation with the main supervisor. The application is to be sent to the Department where the candidate and supervisor have their affiliation.

### **ACADEMIC DISSEMINATION (§ 5.2 in Regulations)**

In addition to the publication of the PhD project, it is required that the candidate presents the PhD work at a national or international academic conference. A written version of the paper presented, normally in English, serves as documentation and the basis for approval. Approval is made by the Department, based on the recommendation of the supervisor.

## **SUPERVISION**

### **The Department of Social Work and Health Science**

As a general rule, the supervisor should be employed at the Department of Social Work and Health Science. The main supervisor should always be responsible for at least 50 % of the supervision time. It follows that any external supervisor(s) should not be responsible for more than 50 % of the supervision time

## **ORGANIZED ACADEMIC COURSE WORK (§ 8 in Regulations)**

### **Structure and implementation**

As part of the organized academic course work, a minimum of 7.5 credits must consist of a "Theory of Science" component. At the Faculty of Social Sciences and Technology Management, the course SFEL8000 "Theory of Science in the Social Sciences" is offered, and at the Faculty of Medicine, SMED8004 "Introduction to Research" and SMED8005 "Communication of Science" are offered. The candidates are free to choose among these courses, but equivalent courses at NTNU or at other universities may also be chosen. In addition to choosing among the courses listed below, the candidate may also include courses offered at NTNU or other national and international universities. These courses must be professionally/methodically relevant for the candidate's research project.

In a few cases, it may be pertinent to approve external courses provided that certain additional criteria are met, for example that an essay related to the course is submitted, even though this is not a requirement in the course itself. In these cases, the essay is submitted to the Department, and assessed by the supervisor.

### **Overview of all courses offered in the PhD Programme in Health Science:**

Kode	Tittel	Sp	Semester
BEV8003*	Signal Analysis with Matlab in Human Movement Science	5	S
BEV8005*	Modern Measurement Techniques in Human Movement Science	5	S
BEV8006*	Research in Human Movement Science	5	A→S/ S→A
HLS8008**	Research on Health Promotion	5	A
HLS8014**	Current issue	5	S
HLS8018**	Children of the Welfare State	5	A
HLS8022***	Individually selected syllabus	5	A/S
KLMED8004	Medical Statistics, Part I	7.5	A
KLMED8005	Medical Statistics, Part II	7.5	S
SARB8008**	Ethnicity and diversity	5	****
SARB8010**	Social exclusion	5	V
SARB8016**	Current issue	5	A
SARB8019**	User involvement in different forms and different contexts	5	A
SMED8002	Epidemiology II	7.5	S
SMED8004	Introduction to Research	5	A/S
SMED8005	Communication of Science	3	S

\* The course is not being taught in the academic year 2016/2017

\*\* The course may be canceled or modified if there are fewer than five participants, and the Department of Social Work and Health Science does not have teaching resources

- \*\*\* The course is reserved for candidates enrolled in the PhD Programme in Health Science. Responsible department is where the candidate's supervisor has his or hers affiliation.
- \*\*\*\* Look for further announcement.

Be aware that the following PhD courses have overlap with other courses:

BEV8005: BEV8002, 5 credits

BEV8006: BEV8004, 5 credits

KLMED8004: HLS3550, 7.5 credits, KLH3004, 7.5 credits, KLH3100, 5 credits,

PH3003, 5.0 credits, ST3000, 5 credits and ST3001, 5 credits

KLMED8005: ST2303, 3.5 credits and ST3000, 2.5 credits

SMED8004: SMED8000, 5 credits, PALC8001, 2 credits and MEDT8001, 1 credit

SMED8005: SMED8000, 3 credits and PALC8001, 1.5 credits

### **Academic course work at the Faculty of Social Sciences and Technology Management**

Normally, the substantial course is taken at the Department of Social Work and Health Science.

This is to ensure contact with the department and the rest of the doctoral candidates. The remaining credits are to be chosen freely depending on individual wishes and in agreement with the supervisor. Be aware that the organized academic course work component consists of 30 credits and has 3 elements:

- Theory of Science (minimum 7.5 credits)
- Methodological courses (minimum 7.5 credits)
- Theoretical/substantial courses (minimum 7.5 credits)

### **Academic course work at the Faculty of Medicine**

Note that the organized academic course work component consists of 30 credits. Theory of Science (minimum 7.5 credits) is a mandatory element. It can be either both the courses SMED8004 and SMED8005 or the course SFEL8000. SFEL8000 will be the most adequate course for candidates who already have completed a fundamental theory of science course. For more and updated information about courses at the Faculty of Medicine, see the

<http://www.ntnu.edu/dmf/phd/courses>.

Be aware that the organized academic course work component consists of 30 credits and has 3 elements:

- Theory of Science (minimum 7.5 credits)
- Methodical courses (minimum 7.5 credits)
- Theoretical/substantial courses (minimum 7.5 credits)

### **THESIS (§ 10 in Regulations)**

Requirements for the thesis and rules for evaluation are given in regulations concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU). The thesis may be handed in as a larger collective piece of work (monograph) or a collection of articles. If the thesis consists of a number of smaller pieces of work, there should be at least 3-4 pieces as well as a summary. In this text, the candidate is given the opportunity to describe how he or she considers the thesis as a whole. The text summarizing the work, usually deals with how the thesis is placed within a wider theoretical field, and also, how the thesis answers the questions within this research area. This summarizing text is usually an introduction, a theoretical basis for all the work included and a summary of the problems addressed in the articles. The text gives an overview of the methods, a summing up of the main results and a discussion of the most important findings and how these should be understood, both empirically and theoretically.

The articles may be a part of this text that summarizes the work, or they may also be placed at the back of the thesis. Dependent on quality and scope, the exact number of articles is to be clarified with the supervisor. The articles may be articles in scientifically refereed periodicals or chapters in anthologies. It is assumed that at least 50 % of the articles are already published, or accepted for publication when the thesis is submitted. All articles are required to have a standard that is appropriate for publication in scientifically refereed periodicals. The candidate is to be the primary author of at least 2 articles. In special cases, dispensation from the directions above may be given. Dispensation is to be clarified with the supervisor.

### **FINALIZATION (§§ 12-22 in Regulations)**

For procedures for submission, appointment of an evaluation committee, the committee's report and assessment of the thesis, revision for new assessment, trial lecture and public defence, as well as awarding the PhD degree - see

SVT: <http://www.ntnu.edu/svt/phd-programme/thesis>

DMF: <http://www.ntnu.edu/dmf/phd/completion>

# **PROGRAMME DESCRIPTION FOR THE PhD PROGRAMME IN INDUSTRIAL ECONOMICS AND TECHNOLOGY MANAGEMENT 2016/2017**

## **Objective of the PhD programme in Industrial Economics and Technology Management**

### **Vision and Goals**

The Department of Industrial Economics and Technology Management places high priority on offering a premier PhD programme that prepares candidates for research and teaching careers at leading educational institutions and for careers where advanced research and analytical capabilities are required. The programme is designed to educate researchers in management, business and HSE subjects, who can contribute in improving and developing the value creation in private and public organizations, emphasizing the interface between the research fields of the Department and technology.

A candidate who has completed the education is expected to have achieved the following learning outcomes, defined in knowledge, skills and competence:

### **Knowledge**

- is at the forefront of knowledge in their field of study
- masters the methods of the field and is familiar with relevant issues of philosophy of science
- is able to consider the usefulness and application of various methods and processes in research and scientific projects

### **Skills**

- is able to present problems for, plan and conduct research and scientific development
- is able to conduct research and scientific development within their area of specialization on an advanced international level
- is able to manage complex scientific issues and challenge established knowledge and practice within the field of study
- is able to contribute to development of new knowledge, new theories and methods within the field

### **Competence**

- is able to identify new relevant ethical issues and conduct their research with academic integrity
- is able to disseminate research and development through recognized national and international channels
- is able to participate in discussions in international forums within the field
- is able to assess the needs for and initiate innovation

The PhD programme in Industrial Economics and Technology Management aims to qualify the candidate for research activity and for other work that requires advanced scientific insight. The programme aims to qualify the candidate to carry out independent research within a specialized field as well as undertake advanced professional promotion, including international scientific publication. The academic quality of the thesis should meet advanced international standards.

The candidate will receive advanced training in theory and methods that provide academic depth and breadth in topics relevant for the thesis and at the same time place the thesis in a larger theoretical framework. By participation in the programme the candidate will receive training in communicating her/his research.

Areas of study within the field of Industrial Economics and Technology Management:

- Strategy and Management
- Operations Management
- Finance and Managerial Economics
- Operations Research
- Health, Safety and Environment

Within each area of study, there will be a number of subjects where the Department's academic staff is qualified to supervise doctoral candidates. The following are examples of subject areas supervised by the Department's staff.

- Strategy and Management: Entrepreneurship and Innovation, Marketing and Internationalization.
- Operations Management: Organizational Theory, Organizational Development, Operations Management, Technology Management, Knowledge Management, Team Management, Project Management, Business Relationship and Network Management, Purchasing and Logistics Management.
- Finance and Managerial Economics: Investment Analysis, Finance, Industrial Economics, Finance Management and Accounts, Game Theory.
- Operations Research: Optimization applied to energy systems, production, transportation and logistics by use of linear, non-linear and discrete models with and without stochastic parameters.
- Health, Safety and Environment: HSE Management, Safety Management, Environmental Management and Social Responsibility, Occupational Health and Indoor Air Quality.

## **Research schools**

**Norwegian Research School in Innovation (NORSI):** The main objective of the Norwegian Research School in Innovation is to provide high quality PhD degrees in innovation. A total of ten institutions cooperate on designing the course programme. In addition, a number of experts and lecturers from prestigious international institutions and universities contribute to the course programme. The research school NORSI is funded by the Research Council of Norway. More information can be found on NORSI's website: <http://www.ntnu.edu/innovation/>

**National Research School in Business Economics and Administration (NFB):** This is a scientific cooperation between participating institutions aiming to increase the quality of the PhD education within Business Economics and Administration. Most Norwegian universities and colleges in the field participate. The school offers PhD courses, colloquia and seminars, as well as a special annual conference. An overview of courses, admission application (for PhD students) and activities is kept up to date on NFB's website: <http://nfb.nhh.no/>

The following areas are covered:

- Economics
- Accounting
- Finance
- Management Science
- Marketing and International Business
- Strategy and Management

The research school NFB is active throughout the year 2016.

## **ADMISSION (§ 5 in the PhD Regulations)**

Applicants must have documented previous knowledge equivalent to a siv.ing. degree (Master of Technology) from the Department of Industrial Economics and Technology Management, within

the main subject area of the PhD thesis. For applicants who do not hold a siv.ing. degree (Master of Technology) from the Department of Industrial Economics and Technology Management, an individual evaluation will be made concerning additional courses needed to meet the academic requirements of the PhD programme.

The PhD plan, including the project description, should be written in consultation with the main supervisor. The main supervisor must be employed at the Department of Industrial Economics and Technology Management.

### **Closing dates for application**

The Department of Industrial Economics and Technology Management considers applications to the PhD programme as the occasion arises.

### **PROJECT DESCRIPTION** (§ 5.2 in the PhD Regulations)

Application for admission to the PhD programme can be based on a preliminary project description. A final project description, following IØT's formalities for the final project description, must then be submitted no later than 6 months after admission. It is important that the main research themes are defined early in the study period. Such themes (e.g. research questions to be presented in the scientific articles) should be presented in the final project description.

### **RESIDENCY REQUIREMENT** (§ 5.3 in the PhD Regulations)

As a rule, the PhD programme is to be completed at the Department of Industrial Economics and Technology Management, so that the candidate and the Department's staff mutually contribute to the Department's academic environment to the greatest possible extent. The residency requirement is 1 year. An individual assessment of the residency requirement will be made for each application.

### **PARTICIPATION IN ACTIVE RESEARCH GROUPS IN NORWAY AND INTERNATIONALLY** (§§ 2 and 5.2 in the PhD Regulations)

The PhD candidates are encouraged to participate in international cooperation in which a stay abroad is included, if this is possible and desirable.

### **ACADEMIC DISSEMINATION** (§5.2 in the PhD Regulations)

It is expected that the main results of the thesis are published in international scientific publication channels with referee system. This is considered to be a joint responsibility of both candidate and supervisor. The publication of articles may take place after the completion of the PhD studies.

### **ORGANIZED ACADEMIC COURSE WORK** (§ 8 in the PhD Regulations)

#### **Structure and implementation**

The organized academic course work component must cover at least 30 credits in total, of which at least 20 credits must be taken from established PhD level courses. The PhD course plan must be approved by the Department. Any applications for change of the approved PhD course plan should be submitted on a separate application form and considered by the Department after a recommendation from the main supervisor. The candidate is responsible for signing up for evaluation in courses within the given deadlines.

**Courses that will be offered in the programme and the individual areas of study:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>	<b>First lecture</b>
<i>Philosophy of Science/Methodological Courses:</i>				
SFEL8000	Philosophy of Science for the Social Sciences	10	A/S	Autumn - 16
<i>Strategy and management</i>				
IØ8100	Innovation and Entrepreneurship	10	A/S	Autumn -16
IØ8204	Methods for Research and Consulting of Teams Emphasizing SPGR	10	A	Autumn -16
<i>Operations Management</i>				
IØ8200	Organizational theory, technology and change	20	A	Autumn -17/Spring -18 (duration of the course will be two semesters) *
<i>Finance and Managerial Economics</i>				
IØ8303	Energy Markets	10	A	Autumn -17 *
IØ8304	Empirical Modelling of Financial and Commodity Markets	7,5	A	Autumn -16
<i>Operations Research</i>				
IØ8400	Mathematical Programming	10	S	Spring -18 *
IØ8401	Stochastic Optimization	10	A	Autumn -16
IØ8402	Optimization in Maritime Transportation	10	A	Autumn -16
IØ8806	Introduction Course in Complementarity Models and Equilibrium	2,5	S	Spring-17
IØ8807	Advanced Course in Complementarity Models and Equilibrium	2,5	S	Spring-17
<i>Health, Environment and Safety</i>				
IØ8500	Work and Health	10	A	Autumn -18 *
IØ8502	The Understanding and Management of Risk and Vulnerability Problems	10	A	Autumn -16
IØ8504	Theory and methods in systems approaches to sustainability	10	S	Spring -17

\*) Lectures will not be given in the academic year 2016/2017

**Individually selected syllabus for doctoral students**

In addition to the courses in the PhD course catalogue, individually selected syllabus within each subject area is offered, specially designed for each candidate.

**THESIS** (§ 10 in the PhD Regulations)

The thesis is to be of high international quality, i.e. it must be accepted at reputable European or North American universities.

## **PhD PROGRAMME IN EDUCATION 2016/2017**

The PhD programme at the Department of Education is prescribed as 180 credits (3 years). Most of the PhD candidates have 25% duty work (1 year) in addition, as part of their contract. Education is an interdisciplinary field of research, where both theoretical and/or more practical perspectives may form the basis for the work on the PhD thesis. The PhD programme in Education has a broad approach to the field of education. Educational research focuses on processes on different levels related to institutions like pre-school and school, but is also relevant in relation to other formal and informal institutions and arenas, like the family, different organizations, and different informal settings where upbringing, teaching and learning take place. Methodologically, the programme opens for studies with different designs. All PhD projects should be on a high level, both nationally and internationally. The thesis may be based on articles (minimum three, plus an introduction) or be written as a monograph.

PhD candidates at the Department of Adult Learning and Counselling (IVR) are part of the PhD programme in Education.

The PhD programme in Education aims to qualify the candidate for research activity in education matters and for other work concerning education that requires an advanced degree of scientific expertise. Candidates with a PhD in Education are qualified for work at the universities and the university colleges, and for a further career within research. They are also qualified for work within public administration on different levels, as well as in private organizations.

### **ADMISSION (§ 5.2 of Regulations)**

#### **Applicant's formal qualifications**

The applicant for a PhD Programme must have a master's degree or equivalent education that is approved by the Faculty as the basis for admission to the PhD Programme.

#### **Applications to inter-faculty study programmes**

Applications for admission to inter-faculty study programmes are also to be sent to the Department where the planned supervisor is affiliated. Comments from the Department are to be sent to the Programme Committee which gives its recommendation before the application is taken under consideration by the Faculty.

#### **For research fellows**

When applying for a research fellow position at the Faculty of Social Sciences and Technology Management, the application for admission to a Doctoral Programme (with possible temporary project description) must be enclosed if the applicant has not already been accepted. When recommending applicants for a research fellowship position, the Department is to evaluate the application for admission of the candidate who has been ranked the highest. The letter of employment will be sent to the research fellow when the Faculty has received the application with recommendation from the Department.

#### **PhD plan**

As a norm, the project description must be between 5-10 pages and specify which issues are being considered, the scientific approach, theory and methodology. The project description is to be prepared in cooperation with the proposed supervisor.

When applying for admission the candidate may submit a summarized version of the PhD plan in cooperation with the main supervisor, but the detailed description of the research project has to be

prepared within six months of being admitted to the programme, in accordance to § 5.2 of Regulations.

## **SUPERVISION (§ 7 of Regulations)**

The Faculty is to appoint the supervisor(s). When more than one supervisor is appointed, one of them is to have the main disciplinary responsibility for the candidate's work. The main supervisor is to be responsible to the supervision. The supervisor is to be a Professor or Associate Professor at NTNU.

## **ORGANIZED ACADEMIC TRAINING COMPONENT (§ 7 of Regulations)**

Each PhD Programme covers specific study plan based PhD level courses of at least 20 Credits in the PhD Catalogue. In addition, the Faculty may, on recommendation from the Department, also approve courses in the PhD Catalogue (Master level courses, external course/individual curricula). The requirements for the overall academic extent of each individual component in the organized academic training component are stated in each subject's study plan.

The organized academic training component must be completed and approved by the Department and Faculty before the thesis may be handed in for assessment.

### **Signing up for courses in the PhD Catalogue**

The candidate must sign up for evaluation in the PhD courses that are to be found in the [PhD Catalogue](#). This is done on the "[Studentweb](#)" within deadline. On this site, candidates may sign up for exams, annul examination registrations, check exam results and report change in address when signing up for exams via "Studentweb." When signing up for exams on the "Studentweb," the candidate must be in possession of a PIN. This PIN is received when logging on to the "Studentweb." (Candidates who do not have a PIN are to use their personal identification number (11 digits) as username and the first four digits of their date of birth as password).

### **Individual curricula and external courses**

Individual curricula are to be stated on a [form](#) handed in by the course lecturer or supervisor.

External courses that are not stated in the study plan may be approved as part of the organized academic training component. Such courses must be specially approved. The candidate is required to ensure that documentation of participation and academic content/extent is handed in with the application for approval. The application, which states which category the course belongs to (Methodology, Theory or the Theory of Science), is to be sent to the Department via the supervisor. The supervisor and the Department are to make their recommendation and forward the application to the Faculty which provides the final approval.

Courses and academic training which are not stated in the PhD Catalogue may on approval from the Faculty also be part of the minimum 20 Credits study plan specified courses in the PhD Catalogue.

*Topics that will/may be a part of the academic training component:*

Code	Title	Credits	Term
SFEL8000	Philosophy of Science for the Social Sciences	10	
PED8007	Perspectives on Bildung <b>without paper</b>	1,5	
PED8008	Perspectives on Bildung <b>with paper</b>	3,5	

PED8009	<b>Dynamic literacies</b> The study of literacies is a field that differs and changes with regard to what and whom to study as well as how to do this. The present course focuses on dilemmas, tensions and changes in the study of literacies. Focus is on media and deals with phenomena such as learning, identity and agency <b>with paper</b>	3	Week 12, March 19 <sup>th</sup> and 20 <sup>th</sup> 2015
PED8010	Dynamic literacies <b>without paper</b>	1,5	

## THE THESIS (§ 10 of Regulations)

The thesis may consist of a monograph or several smaller works (articles). In special cases it can also consist of a combination of these.

A monograph should aspire to have a clear focus and an appraisal. Guiding page numbers for a monograph is between 200 -300 pages. Monographs exceeding this page number (300) must be able to justify exceeding the page numbers. It is also possible to write a combination between a monograph and article-based thesis.

# **PHD-PROGRAMME IN RESEARCH WITH FORCUS ON TEACHER AND SCHOOL PRACTICE 2016/2017**

## **DESCRIPTION OF THE PROGRAMME (§ 2 in PhD Regulations)**

The PhD program

- is interdisciplinary oriented and can be the center of gravity in one or more basic disciplines
- is thematically focused on teachers' professional education and professional practice
- have practice perspective of gravity
- to develop the candidates' qualifications for the work that claims to scientific expertise, both in the higher education sector and in the workplace in general

### **Subjects**

The PhD program is interdisciplinary and can have its center of gravity in one or more basic disciplines. The specific feature of the program is that the thematic and methodological is focused on teachers' professional education and professional practice, with practice perspective that center of gravity.

### **Objectives**

The PhD program in professional research facility with the teacher and the school aims to develop the candidate's qualifications for the work that claims to scientific expertise. The main component of the program is an independent research of high scientific level. Training program must be in support of the candidate's work on the doctoral dissertation and provide scientific depth and width, so that the candidates develop an independent and reflective attitude to their own and others' research and the role of research in a larger context.

After completing this research, the PhD candidates have the knowledge;

- relevant and updated at a high level within their area of research, and at the highest level within the dissertation topic cover
- the key theoretical perspectives, issues and methods, and to assess the appropriateness and application of these
- how to research area can be developed – theoretical and methodological – with particular emphasis on professional development and practical relevance in teacher education and school
- have the skill to explain, describe and refine research work
- have analytical skills in managing complex medical issues
- have skills in critical to be able to challenge established truths

## **ORGANIZED ACADEMIC TRAINING (§ 8 in Regulations)**

The organized academic training is to complement the work with the thesis, as well as provide scientific and methodological training, so the candidate develops an individual and mature relationship to one's own and others' research, and the role of research in a larger context.

<b>Code</b>	<b>Titel</b>	<b>Credits</b>	<b>Term</b>
PLU8012	Applied Quantitative Research Methods of Analysis	5	Spring
PLU8013	Scientific Theory with Focus on Profession Research	10	Autumn
PLU8014	Academic Writing	5	Autumn

PLU8017	Distribution of Research	5	Autumn
PLU8018	Profession theory for teacher educators	5	Autumn
PLU8019	Organizational Learning as a Field of Research and Practice	5	Spring
PLU8021	Qualitative Research Methods of Analysis 1	5	Autumn
PLU8022	Qualitative Research Methods of Analysis 2	5	Autumn
PLU8025	Democracy, Citizenship and Human Rights in Education	7,5	Autumn
PLU8027	Teacher Education Research	5	Autumn

### **Structure and implementation**

The candidate is to state in her/his application a plan for the organized academic training component in consultation with the supervisor(s). It is recommended that the organized courses and approving of external courses/subjects, are described in the Faculty of Social Sciences and Technology Management's website.

The Faculty will at all times offer PhD-courses with focus on teacher education and school practice. Further information is to be found on the Faculty's website. In addition to these courses, the candidates should attend one or more external PhD-course, this to meet the requirements of participation in national/international scientific networks. Academic training organized by The National Research School for Teacher Education (NAFOL) will be of particular interest.

### **THESIS (§ 10 in Regulations)**

Requirements for the thesis and rules for evaluation are given in *Regulation concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU)*. If the thesis consists of a number of smaller pieces of work (normally 4-5 articles/chapters in a book), the candidate must be the sole or main author of at least half of them.

## **THE PHD PROGRAMME IN PSYCHOLOGY 2016/2017**

### **DESCRIPTION (§ 2 in Regulations)**

The PhD Programme in Psychology is prescribed as 180 credits (equivalent of 3 years of full time study). The final course plan for the PhD Programme is to be shaped in joint consultation between the candidate and his/her supervisor with the approval of the Department of Psychology depending on the thesis area of research and the candidate's individual requirements and requests.

### **Objectives of the PhD Programme in Psychology**

The PhD Programme offered by the Department of Psychology will provide academic support and supervision in the candidate's thesis work and qualify for research activity or other work that requires an advanced extent of academic insight. The Programme will provide a basis for an independent, critical and thoughtful perception of one's own and others' research through studying theoretical and methodical subject areas, as well as providing practice in communicating research results in academic- and other forums.

A candidate with a completed PhD degree in psychology should have the following knowledge, skills and general qualifications:

#### *Knowledge*

The candidate should be able to

- be in the forefront of knowledge within psychology and is proficient in science and methods of the discipline
- assess the appropriateness and application of various methods and processes within research and scientific development
- contribute to the development of new knowledge, new theories, methods, interpretations and forms of documentation within the field

#### *Skills*

The candidate should be able to

- formulate relevant questions, plan and implement research and scientific development
- conduct research and academic development at a high international level
- deal with complex technical questions and challenge established knowledge and practice within psychology
- reach decisions on a scientific basis from a complex documentation basis
- teach in psychology on the basis of one's own research

#### *Competence*

The candidate should be able to

- analyse the scientific and/or social science problems from a psychological perspective
- identify and relate to the relevant and ethically proper issues and to exercise their research work with integrity
- lead complex interdisciplinary work and projects
- guide specific research projects and participate in more complex interdisciplinary research projects
- convey research and scientific development through recognized national and international channels
- participate in debates within the field in international forums

#### **Areas of research**

The Department of Psychology offers education with the aim of providing insight into theories and methods that are necessary when working with the thesis. The Department of Psychology

offers two courses that are supervised, with individual curricula affiliated to theory (PSY8010) or method (PSY8011). In addition, five specialised courses within defined topics are offered: "Risk Perception and Risk Management" (PSY8002), "Multivariate Research Methods" (PSY8003), "Human Psychophysiology: High-Density EEG Analysis" (PSY8005), "Introduction to Structural Equation Modeling" (PSY8006) and "Dissemination of Research" (PSY8007).

## **SUPERVISION (§§ 5.2 and 7 in Regulations)**

Candidate and supervisor(s) have a joint responsibility in seeing that the use of respondents, subjects or animal models, as well as the collection, storage and presentation of data, is carried out in accordance with existing laws and research ethical guidelines. Procedures for the appointment and changing of supervisor (s) are described at the Faculty's websites.

## **ACADEMIC DISSEMINATION (§ 5.2 in Regulations)**

It is expected that the candidate meets the requirements set for academic dissemination. The candidate has several choices concerning academic dissemination:

- Academic presentation at scientific congress
- Popular scientific dissemination

## **ORGANIZED ACADEMIC COURSE WORK (§ 8 in Regulations)**

### **Objectives of the organized academic course work**

The main aim of the PhD Programme in Psychology is to offer active research under supervision, as well as providing thorough training in advanced research methods and theoretical specialised courses. The main aim of the organized academic course work is to provide insight into theories and methodologies that complement the work with the thesis and contribute to the general training requirements for the candidates' future activities.

### **Structure and implementation**

The candidate is to state a plan for the organized academic course work in consultation with the supervisor (s) in her/his application. It is recommended that the organized academic course work is completed at an early stage of the Programme. The candidate is responsible for registration for examination in courses within the given deadlines. External courses that are to be included in the organized academic course work must be approved by the Department. Procedures concerning registration and approval of external courses are described at the Faculty's web pages. For changes to the plan for the organized academic course work the candidate must send an application to the Department and the changes must be recommended by the main supervisor.

The organized academic course work has a prescribed duration of 1 semester's full time work, i.e. 30 credits, and must be completed when the thesis is handed in for assessment. The organized academic course work consists of three elements:

- Theory of Science, minimum 7.5 credits
- Methodology courses, minimum 7.5 credits
- Theoretical/substantial courses, minimum 7.5 credits

Of the 30 credits required in the organized academic course work, the Department of Psychology offers 20 credits. The candidates may choose between four specialised courses in the field of research method (PSY8011, PSY8003, PSY8005, PSY8006), and two in the field of psychological theory (PSY8010 and PSY8002). The course PSY8007 is categorised as

methods/theory. For the Theory of Science, candidates are referred to the Faculty's remaining courses. This course may be followed at other faculties or universities.

Two courses are offered with individually selected syllabus; one within theoretical training (PSY8010) and one within research methods (PSY8011). The courses are to a large extent open for adjustment to individual problems. Each course includes 10 hours of academic supervision, including time for preparations and complementary work, and the following elements shall be fulfilled:

- Individually approved individual study syllabus (ca. 400 pages)
- Completed supervision - 10 hours for each of the courses (theory and method), individually or in a group with candidates working on the same topics
- The candidate is required to hand in a written piece of work which accounts for the approaches to problems discussed between the supervisor and candidate. Form, scope and level of the written assignment are described in the submission form available on the Department's websites.
- The candidate is required to make a presentation of the written assignment in an academic forum approved by the supervisor.

Registration for PSY8010 and PSY8011 is done via Studentweb, but additionally requires that the PhD candidate personally establishes contact with a potential academic supervisor at the Department of Psychology. An agreement will be made between the candidate and the supervisor on a separate form which is available from the Department of Psychology.

A minimum of five registered PhD candidates is required for the courses PSY8002, PSY8003, PSY8005, PSY8006 and PSY8007. PSY8005 requires a maximum of ten registered participants and PSY8007 requires a maximum of 14 registered participants.

Credits can be given for conference presentations and research stays at a foreign/other national institution recommended by the main supervisor. Presentations (oral presentation and/or poster presentation) at international conferences can be credited with a maximum of 2 credits, whereas national conferences can be credited with up to 1 credit. However, this can be subject to individual evaluation. Conference presentations included in the examination of the courses PSY8007, PSY8010 or PSY8011 will not be credited. Research stay at a foreign/other national institution must have a minimum duration of 2 weeks. 2 weeks give 3 credits. Stays exceeding 2 weeks give 1.5 credits per week. A total of 4 credits can be given for conference presentations and a total of 6 credits can be given for research stays. Contact the Department for further information concerning the application process.

Furthermore, schooling in scientific theory is a mandatory part of the PhD Programme. The Faculty offers the course SFEL8000 Theory of Science for the Social Sciences (10 credits). If the candidate wishes for additional training in methodology and theory, she/he may attend courses that, at any given time, are offered at NTNU and other institutions, and that are approved as PhD courses. Contact the Department for further information concerning courses in psychology offered at other universities in Norway. In general, external courses approved after application to the Department and in accordance to the Faculty's guidelines, can be used as part of one or more components of the organized academic course work programme. Norwegian website for PhD courses in social science subjects at Norwegian universities: <http://www.phdcourses-socsci.uio.no/>.

**Courses that are to/may be part of the organized academic course work:**

Code	Title	Credits	Semester
PSY8002**	Risk Perception and Risk Communication	10	S
PSY8003**	Multivariate Quantitative Research Methods	10	S
PSY8005***	Human Psychophysiology: High-Density EEG Analysis	10	S
PSY8006**	Introduction to Structural Equation Modeling	10	S
PSY8007****	Dissemination of Research	10	*****
PSY8010*	Individually selected text - Theory	7.5	A/S
PSY8011*	Individually selected text - Method	7.5	A/S

- \* The course is reserved for candidates enrolled in the PhD Programme in Psychology.
- \*\* A minimum of five registered PhD candidates is required for the course to be held.
- \*\*\* Requires a minimum of five and a maximum of ten registered PhD candidates.
- \*\*\*\* Requires a minimum of five and a maximum of 14 PhD registered candidates.
- \*\*\*\*\* The course will not be offered during the academic year 2016/2017.

Courses that are to replace the above courses must be approved by the Department.

Please note that the following PhD courses overlap with following courses:

Course code	Reduction
PSY8010: PSY8000	7.5 cr
PSY8011: PSY8001	7.5 cr

**THESIS (§ 10 in Regulations)**

Requirements for the thesis and rules for evaluation are given in Regulations concerning the *philosophiae doctor* degree (PhD) at the Norwegian University of Science and Technology (NTNU).

The thesis is to contribute to developing new academic knowledge and be of a quality that makes it viable for publication within the said academic field. Theses that consist of a collection of articles are normally required to consist of 3 articles, of which the candidate must be the first author of at least two articles.

## **PH.D. PROGRAMME IN ECONOMICS 2016/2017**

### **Learning outcome for the PhD-programme**

After completing the PhD degree in Economics the candidate should be able to:

- master the knowledge frontier in economics and the philosophy of science and methods of the field
- apply empirical and theoretical methods that represent the latest knowledge in the field
- evaluate the appropriateness and application of various methods and processes of research
- contribute to the development of new knowledge, new theories, methods, interpretations and documentations in economics
- formulate research questions relevant to the field of economics, as well as plan and carry out research projects in economics
- conduct research and development at a high international level
- manage complex scientific questions and challenge established knowledge and practice in economics
- convey research and development through recognized national and international channels
- take a part of discussions in the field of economics in international fora
- assess the need for, initiate and conduct scientific innovation
- identify relevant ethical issues and practice their research with high professional integrity

### **Coursework (cf. § 8 of the regulation)**

The purpose of the coursework is to provide insight into theories and methods that are helpful to the work on the thesis, as well as to contribute to the general training necessary for the candidate's later work as a PhD in Economics.

The scope of the coursework should be at least 45 credits. If the compulsory requirement of econometric methods is met upon admission, the coursework is reduced to at least 35 credits.

### **Structure and implementation**

The application must include a plan for the coursework, developed in consultation with the main supervisor. Candidates should register themselves for courses within the given deadlines. External courses/subjects to be included in the coursework must be approved by the department. For procedures for registering for courses and approval of external courses/subjects, see the faculty website.

The coursework includes compulsory and optional courses.

#### **A. Compulsory courses**

- a) Course in philosophy of science of at least 5 credits. Among courses at NTNU only the philosophy of science course offered by the Faculty of Social Sciences and Technology Management will be approved.
- b) Courses in econometric methods that is at least equivalent to the courses SØK3514, SØK3515 or FIN3006. Exemption is given if the candidate has this or similar courses upon admission. The total extent of the coursework should then be at least 35 credits.

## B. Optional courses

The coursework can be composed of the following courses:

- 1) PhD courses organized by the Department of Economics. These courses normally end with a home exam or an essay.
- 2) National and international research courses in economics.
- 3) Advanced master courses in economics offered by the Department of Economics (PhD codes SØK8614-SØK8629, FIN8606). A maximum of 10 credits may be approved from these courses in addition to the compulsory courses in econometrics described above.
- 4) Independent study, limited to 7.5 credits. Individual syllabus can be approved if the access to PhD courses makes it difficult for the candidate, within reasonable time frames, to put together a coursework that supports the thesis work.

<b>Overview of courses that may be included in the compulsory part of the coursework</b>		
Code	Title	Approved credits
SØK8614	<a href="#">Applied Econometrics</a>	10
SØK8615	<a href="#">Microeconometrics and Analysis of Panel Data</a>	10
FIN8606	<a href="#">Applied Time Series Econometrics</a>	10
SFEL8000	<a href="#">Philosophy of Science for the Social Sciences</a>	10

## Guiding criteria for awarding credits

The criteria may be waived by evaluation of each course. If a course overlaps with the admission criteria of the programme, the course will provide fewer, possibly no credits. To have credits approved the courses must have either oral or written examination, or submission of an essay.

### 1) Research courses

7.5 credits for courses of two weeks duration, i.e. approximately 14 hours teaching + preparation period.

### 2) Courses at other institutions

To have courses from other institutions approved an application that documents the extent of the course (teaching, syllabus) and the passing of the exam must be sent to the Department, which approves the course upon recommendation of the main supervisor. Credits are determined by individual assessment of each course based on complexity, extent and assumed workload. Approval requires that the level of the course corresponds to the level of similar courses offered by the Department of Economics. If the course is without an exam, participation must be confirmed by the teacher. The department may then decide that the student must complete a special test in the course. The test is then evaluated on the basis of comparison with the above criteria.

### **3) Independent study**

Evaluation is based on written assignments that are assessed by the department. The scope is determined by individual assessment.

### **Scientific communication** (cf. §§ 2 and 5.2 of the regulation)

The candidate should at least three times during the programme present a paper on a topic related to his thesis at the research seminar at the Department of Economics, other universities or national/international research conferences. At least one of the presentations must be at the Department of Economics.

### **The PhD thesis** (cf. § 10 of the regulation)

The thesis should normally consist of three journal articles of normal size (in addition to the summary). Maximum one of the three papers should normally be joint work. If the thesis has more than one joint work, the thesis should normally consist of more than three papers. The thesis cannot consist of only joint work. The thesis must include a summary explaining how the thesis is related to the literature and summing up the individual papers.

Other requirements for the thesis and rules for the assessment are given in the regulations for the PhD degree at NTNU.

## **PROGRAMME DESCRIPTION FOR THE PhD PROGRAMME IN SOCIAL ANTHROPOLOGY 2016/2017**

### **DESCRIPTION OF THE PROGRAMME, (§ 2 in Regulations)**

The PhD Programme in Social Anthropology is prescribed as 180 credits (3 years). The final course plan for the PhD Programme is to be shaped in joint consultation between the candidate and his/her supervisor with the approval of the Department of Social Anthropology depending on the thesis area of research and the candidate's individual requirements and wishes.

### **OBJECTIVE OF THE PhD PROGRAMME IN SOCIAL ANTHROPOLOGY**

The PhD Programme in Social Anthropology aims to develop the candidate's qualifications in work that requires an advanced degree of scientific expertise. The most important element of the Programme is an independent piece of research achieving an advanced scientific standard. In addition, the candidate is to participate in training which is to complement the work with the thesis, as well as contributing to the candidate's necessary academic depth and breath. The Programme aims to provide a basis for an independent, creative and critical relationship to one's own and others' research, as well as providing practice in communicating research results in academic and other forums.

After the research training, the doctoral candidate should have the following knowledge, skills and competence:

#### *Knowledge:*

- has relevant, up to date, and high level of knowledge within his/her research field as well as at the highest level within the topic that the thesis covers.
- has knowledge on the discipline's central theoretical perspectives, problems and methods
- is able to evaluate the usefulness and application of different methods and processes involved in anthropological research and related disciplinary projects
- is able to contribute to the development of new knowledge, new theories, methods, interpretations and forms of documentation in social anthropology.

#### *Skills:*

- has skills to define research areas, plan and carry out research projects
- has skills to formulate research problems, select the appropriate methods, and carry out independent large scale research work
- is able to deal with complex disciplinary issues
- has skills in critical thinking and to challenge established truths
- has skills in both national and international professional networking

#### *Competence:*

- has general competence in identifying and dealing with ethical issues within the discipline and carry out research with professional integrity
- is able to guide research projects as well as participating in complex interdisciplinary research
- is able to disseminate and communicate research results in different channels and to various audiences, locally, nationally and internationally
- is able to disseminate research through scientifically recognized national and international channels, as well as to participate in disciplinary debates in international fora

## **ADMISSION (§ 5 in Regulations)**

The primary requirement for admission is that the applicant holds a cand.polit./Master's degree in Social Anthropology. Admission may be given if the applicant can document equivalent qualifications. The applicant must have a weighted average grade for his or her Master's degree or equivalent education of a grade of B or higher.

In special cases, applicants with other backgrounds may be admitted to the PhD Programme.

Applicants may be requested to take specified courses and/or pass specified tests prior to admission.

## **Application requirements**

Applications for admission are to be made on the [application form](#). Application requirements are stated in Regulations concerning the *philosophiae doctor* degree (PhD) at the Norwegian University of Science and Technology (NTNU), on the Faculty's web pages. It is preferred that the PhD plan, including the project description, is composed in consultation with the main supervisor. The application is to be sent to the Department where the candidate and supervisor are connected.

## **Admission procedure**

The Faculty considers applications for admission based on the recommendation of the Department. Procedures for admission and the follow-up of incomplete applications are described on the Faculty's web pages.

## **Decision of admission**

The decision concerning admission is based on a collective evaluation of the application. Admission to a PhD Programme is formalised by a written contract, in accordance with § 6 of the Regulations concerning the *philosophiae doctor* degree (PhD) at the Norwegian University of Science and Technology (NTNU).

## **PhD PLAN (§ 5.2 in Regulations)**

The project description is to give an account of which issues are being considered, approaches to problems, as well as the choice of theory and method. The description of the research project is normally between 5 and 10 pages.

## **FUNDING PLAN (§ 5.2 in Regulations)**

For applicants who are not fully funded through scholarship schemes, it is required that 50 % of working hours during participation in the PhD Programme can be used for study, and that a minimum of 1 year can be allocated to full time studies.

## **SUPERVISION, (§§ 5.2 and 7 in Regulations)**

Work on the PhD thesis constitutes active research under supervision. The supervisor's total use of time supervising is stipulated to be 210 worker-hours for the entire period. This is equivalent to approx. 70 worker-hours per year for 3 years. In addition to the contract period stated between candidate and supervisor, this includes preparation, reading, complementary work etc. If a supplementary supervisor is appointed, the number of worker-hours must be divided between the principal and supplementary supervisor.

Procedures for the appointment and changing of supervisor (s) are described on the Faculty's web pages.

## **RESIDENCY REQUIREMENT, ( § 5.3 in Regulations)**

A plan for the meeting of residency requirements is to be presented in the application and in the agreement on supervision. In certain instances, the Department may grant dispensation from the residency requirements.

## **ACADEMIC DISSEMINATION, (§ 2 in Regulations)**

Training in dissemination (no credits awarded) is preferably carried out by the candidate presenting a scientific "paper" at a national or international conference that is relevant to Social Anthropology. The written version of the presentation serves as documentation.

## **ACCEPTANCE OF EXTERNAL EDUCATION**

The methodical and theoretical postgraduate studies are chosen in cooperation with the supervisor. The candidate is also encouraged to take part in other relevant courses at other Departments at NTNU, or at other universities, nationally and internationally. These courses may replace equivalent courses offered at the Department, if approved by the course leader at the Department in consultation with the supervisor. Courses at PhD level that are offered at other Departments or institutions are weighed equivalent to the number of credits certified by the organiser.

## **REPORTING, (§ 9 in Regulations)**

The candidate and supervisor are to deliver separate annual reports on progress, in accordance with § 9 of Regulations concerning the *philosophiae doctor* degree (PhD) at the Norwegian University of Science and Technology (NTNU). Procedures for submission and processing of candidate and supervisor reports are to be found on the Faculty's web pages.

## **ORGANIZED ACADEMIC COURSE WORK, (§ 8 in Regulations)**

The main objective of the organized academic course work component is to provide insight into theories and methods that are necessary when working with the thesis, but may also contribute to the general academic course work that is required for the candidate's future endeavours. It is recommended that the candidate completes the organized academic course work component at an early stage of the Programme.

### **Structure and implementation**

The candidate is to state in her/his application, a plan for the organized academic course work component in consultation with the supervisor(s). It is recommended that the organized academic course work is completed during the two first semesters of the Programme. The candidate is responsible for signing up for evaluation in subjects within the given deadlines. External courses/subjects that are to be a part of the organized academic course work must be approved by the Department. For procedures concerning signing up for courses and approval of external courses/subjects, consult the Faculty's web pages.

The organized academic course work has a prescribed duration of 1 semester's full time work, i.e. 30 credits, and must be completed before the thesis is handed in for assessment. The organized academic course work component consists of three elements:

- The Theory of Science, 10 credits
- Methodological courses, 10 credits
- Theoretical/substantial courses, 10 credits

#### **a) Theory of Science**

The candidate is urged to follow the course SFEL 8000 Philosophy of Science for the Social Sciences (<http://www.ntnu.edu/studies/courses/SFEL8000#tab=omEmnet>) or KULT8850/8851 – Theory of Science (<http://www.ntnu.no/kult/forskerutdanning>) at NTNU. Alternatively, the candidate can choose equivalent courses at other universities in Norway or abroad.

**b) Methodology**

The candidate is urged to follow the methodological course offered at the Department; SANT 8004. (<http://www.ntnu.edu/sosant>).

Code	Title	Credits
SANT8004	PhD Course in Ethnographic Method. .	10

Lectures/seminars: ca. 18 hours

Curriculum: ca. 700 pages

Documentation: Pass (Grade A to E) written essay approximately 15 pages

Alternatively, the candidate can choose equivalent courses at other universities in Norway or abroad.

Norwegian website for PhD courses in social science subjects at Norwegian universities:

<http://www.phdcourses-socsci.uio.no>.

**c) Theoretical/substantial education**

The Candidate is urged to choose courses regarding theoretical/substantial education from what is offered at other universities in Norway or abroad. For example, the course “Recent Theory in Anthropology” is held every Spring semester and is given in cooperation between the Department of Social Anthropology at the University in Oslo and the Department of Social Anthropology at the University in Bergen. It is held either in Bergen or in Oslo.

**THESIS (jf. § 10.1)**

Thesis requirements and regulations concerning the assessment are provided in the regulations for the *Philosophiae Doctor* Degree (PhD) at the Norwegian University of Science and Technology (NTNU).

**FINALIZATION**

Procedures for submission, appointment of an evaluation committee, the committee's report and assessment of the thesis, revision for new assessment, trial lecture and public defence, as well as conferment of the PhD degree are described at <http://www.ntnu.edu/svt/phd-programme/thesis>

**SUPPLEMENTARY GUIDELINES****Participation in research**

PhD candidates commit themselves to actively participate in institute and research group joint activities. After fieldwork, PhD candidates will present their work at the institute seminar.

**Midterm evaluation**

The purpose of the mid-term evaluation is to identify challenges and outline what the candidate should focus on in the remaining period to ensure the delivery of a high-quality work within the stipulated timeframe. The midterm evaluation shall be carried out by an external reader after recommendation from the supervisors, and will take the form of a 3-4 hour seminar together with the candidate and supervisors. The candidate sends the manuscript to the external reader via supervisor in good time before the seminar. At the seminar, the candidate must first present their work followed by an identification of challenges that must be overcome for further progress. This is followed by the external reviewer's comments, and a joint discussion.

**Final evaluation**

If needed, a final evaluation by an external reader to ensure quality can be arranged. The external reader will report directly to the candidate and supervisors.

## **Thesis**

The thesis must be an independent scientific work that meets international standards with regard to ethical requirements, academic standards and methodology in the field. The dissertation must contribute to the development of new knowledge and be of a standard appropriate for publication as part of the scientific literature (§ 10 of the NTNU PhD Regulations).

It is allowed to submit the dissertation in both forms: monograph and article collection. The monograph is expected to be in a scope of ca. 250 pages / 90,000 words.

## **Guidelines for article-based dissertation**

The dissertation should normally consist of 3 to 5 articles / book chapters as well as a text that contextualizes the articles / book chapters with broader academic topics.

The number of articles / book chapters is dependent upon their quality and scope and must be agreed with the supervisor.

At least half of the articles / book chapters should normally have been submitted for publication prior to submission of the thesis.

The candidate must be the sole author of at least half of the articles / book chapters, measured in number or scope (page numbers). The candidate must be first author on any jointly authored articles / book chapters.

The contextualizing text's scope and detailed content may vary according with the quality, scale and thematic spread of articles / book chapters. The thesis' total page count should be of at least 150 pages, and at least 20% of the whole thesis should be part of the contextualizing text.

## **THE PHD PROGRAMME IN SOCIAL WORK 2016/2017**

### **DESCRIPTION OF THE PROGRAMME** (§ 2 in Regulations)

The PhD Programme in Social Work is prescribed as 180 credits (3 years). The final course plan for the PhD Programme is to be shaped in joint consultation between the candidate, his/her supervisor with the approval of the Department of Social Work and Health Science, depending on the thesis area of research and the candidate's individual requirements and requests.

### **Objectives for the PhD Programme in Social Work**

The candidate shall develop sufficient knowledge and skills to conduct independent social work research, and contribute, through a doctoral thesis, to the development of knowledge in the field of social work.

The PhD programme itself shall qualify for research activities on a high scientific level and for other work where scientific insight and method are required. The doctoral candidates shall acquire substantial knowledge, in-depth and in a broader scope, in the field of social work, and be able to use this knowledge in a general social scientific context.

The PhD programme shall qualify for research on social problems, social work practice, social policy, and for the development of knowledge relevant to social work practice, including the possibilities of developing such knowledge and the consequences of using it. The programme shall also contribute to the development and dissemination of science-based knowledge associated with social work practice. After completing the PhD programme in Social Work, the candidate shall have the following general competence, knowledge and skills:

#### *Competence*

- have knowledge and understanding of ethics and legislation
- identify new relevant ethical issues and the need for additional knowledge production in a research area in social work
- carry out his or her own research with academic integrity
- manage complex interdisciplinary projects through the use of teamwork
- present research and development projects in oral and written forms through recognized national and international channels
- present and discuss research and research results in dialogue with social work researchers specifically and with society in general
- participate in debates in the field of social work in international forums
- assess the need for, initiate and drive innovation
- show deeper understanding about social work as a scientific area, its possibilities and obstacles in relation to vulnerable individuals and groups, their living conditions and social change processes at various levels in society

#### *Knowledge*

- be in the forefront of knowledge in his or her own professional field and have knowledge about relevant scientific positions in the field of social work
- analyze, interpret and critically evaluate his or her own and others' studies and also place these in a larger context
- assess and evaluate the use of various methods and processes in research and in a professional development project
- contribute to the development of new knowledge, new theories, methods, interpretations and documentation in the field of social work

### *Skills*

- be able critically, independently, creatively and with scientific knowledge to identify and formulate research problems, plan and carry out research and professional development at the national and international level
- assess and evaluate scientific studies in social work
- demonstrate the ability, with a doctoral dissertation, to contribute significantly to knowledge production and development in a selected field in social work
- deal with complex professional issues and challenge an already established field of knowledge and practice

### **ADMISSION (§ 5 in Regulations)**

Requirement for admission is that the applicant holds a Master's degree or equivalent in Social Work or equivalent education within the fields of Social Sciences.

### **ACADEMIC DISSEMINATION (§ 5.2 in Regulations)**

Dissemination is partly to be connected to the seminar series offered by the Department. When presenting, the candidate receives practice in dissemination, and the discussion after the presentation also counts as dissemination. In addition, it is required that the candidate impart information from the project in the form of a "paper-/poster-presentation" given at a conference, normally an international conference. A written version of the "paper/poster", preferably in English or another "international" language, serves as documentation and a basis for assessment/approval. Approval is done by the Department based on the supervisor's recommendation.

### **SUPERVISION**

As a general rule, the supervisor should be employed at the Department of Social Work and Health Science. The main supervisor should always be responsible for at least 50 % of the supervision time. It follows that any external supervisor(s) should not be responsible for more than 50 % of the supervision time

### **ORGANIZED ACADEMIC COURSE WORK (§ 8 in Regulations)**

The organized academic course work component consists of the elements:

- The Theory of Science, 10 credits
- Methodological courses, 10 credits
- Theoretical/substantial courses, 10 credits

### **Structure and implementation**

Parts of the methodological and theoretical training will consist of courses organised by the Department of Social Work and Health Science. This will assure contact with the department and other PhD candidates. The remaining credits may be chosen freely according to each candidate's needs, in collaboration with the supervisor. Courses from other departments or institutions must be approved by the department, upon the recommendation of the supervisor.

There will be held one or more two- or three-day courses each semester. Further below, you may find an overview of the courses. Courses within the PhD programme in Health Science, offered by the Department, are also approved for the PhD programme in Social Work. Each course will be a blend of teaching and presentations by the participants. For each course there will be a curriculum of 600-800 pages, partly individually selected.

The presentations take the form of essays/papers. These should be connected to the theme of the course, but simultaneously be connected to the doctoral thesis; for example, by discussing the

theoretical grounding of one's own work, or possibly the status of knowledge of one's own area of research. A draft of the presentations is to be handed in before the course, presented and discussed orally at the course, and to be completed in written form within a given deadline. The completed essay/paper must be awarded a grade B or higher by the course leader.

In a few cases, it may be relevant to approve external courses on condition that certain additional criteria are met; for example, that an essay related to the course is submitted, even though this is not a requirement in the course itself. In these cases, the essay is submitted to the Department, and assessed by the supervisor.

#### Complete overview of all courses offered in the PhD Programme in Social Work

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
HLS8008**	Research on health promotion/Positive health research	5	A
HLS8014**	Current issue	5	S
HLS8018**	Children of the Welfare State	5	A
SARB8008**	Ethnicity and diversity	5	***
SARB8010**	Social exclusion	5	S
SARB8016**	Current issue	5	A
SARB8018*	Individually selected syllabus	5	A/S
SARB8019**	User involvement in different forms and different contexts	5	A

\* The course is reserved for candidates enrolled in the PhD Programme in Social Work

\*\* The course may be canceled or modified if there are fewer than five participants, and the Department of Social Work and Health Science does not have teaching resources

\*\*\* Look for further announcement

#### **THESIS (§ 10 in Regulations)**

Requirements for the thesis and rules for evaluation are given in Regulations concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU).

The thesis may be handed in as a larger collective piece of work (monograph) or a collection of articles. If the thesis consists of a number of smaller pieces of work, there should be at least 3-5 pieces as well as a summary. Depending on the quality and scope, the exact number of articles is to be clarified with the supervisor. In special cases, an exception from the demand of 3-5 articles may be made.

The articles may be articles in scientifically refereed periodicals or chapters in anthologies. It is assumed that at least 50 % of the articles are already published, or accepted for publication when the thesis is submitted. All articles are demanded to have a standard that is appropriate for publication in scientifically refereed periodicals. Normally, the candidate is to be the primary author of all articles. In special cases, dispensation from the directions above may be given. Dispensation is to be clarified with the supervisor.

## **PROGRAMME DESCRIPTION FOR THE PHD PROGRAMME IN SOCIOLOGY 2016/2017**

Objective for the PhD Programme in Sociology:

### **Knowledge**

The candidate

- Is at the forefront of knowledge production in Sociology and masters the disciplines theories and methods
- Is able to make decisions based in academic and disciplinary reasoning and by applying various methods and processes in research and academic work.
- Is able to contribute to the development of new knowledge, new theories, interpretations and new ways of documenting knowledge

### **Skills**

The candidate

- Is capable of formulating research questions for Sociology, and to plan and carry out research and academic work.
- Can conduct research and academic work at a high international level.
- Can work with complex research questions and challenge established disciplinary knowledge and practices.

### **Competence**

The candidate

- Can identify relevant and ethically sound research questions and perform academic work with integrity
- Can manage complex research projects
- Can disseminate research through well recognized national and international information channels
- Can participate in international discussions within Sociology in international forums.

### **ORGANIZED ACADEMIC TRAINING (§ 8 in *PhD*-Regulations)**

A plan for the organized academic training component, composed in consultation with the supervisor(s), should be included in the candidate's application. It is recommended that the organized academic training is completed at an early stage of the programme. The candidate is

responsible for signing up for courses within the given deadlines. External courses that are to be a part of the organized academic training must be approved by the Department.

The total work load per ECTS credit is normally the equivalent of 29 hours. The organized academic training component must in total cover at least 30 ECTS credits, of which 20 ECTS credits must be selected from the PhD catalogue. Contact the Department for further information on the national cooperation between the political science departments at Norway's universities concerning the organized academic training. Applications for changes in the accepted plan for the organized academic training component will be determined by the Department on recommendation from the supervisor.

**The organized academic training component consists of three elements:**

- a. The Theory of Science, 10 ECTS credits
- b. Methodological courses, 10 ECTS credits
- c. Theoretical/substantial courses, 10 ECTS credits

Under a. the Faculty offers the course *SFEL8000 Theory of Science for the Social Sciences*, which is a joint course for all PhD candidates at the Faculty of Social Science and Technology Management. Under 'b' the Department offers the course SOS8007 Qualitative Research Methods and SOS8515 Advanced Social Statistics each autumn semester, and the course SOS8003 Applied Social Statistics in the spring semester. Contact the Department for further information. Under c. the Department offers a number of theoretical/substantial courses, see course list below. Each course is credited by 10 ECTS provided they are passed with a grade B or higher and are not part of the candidate's Cand. Polit./Master's Degree. Courses must normally be completed after admission to the PhD Programme.

**Courses that will/may be part of the PhD Programme in Political Science:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
<b><i>The Theory of Science/Methodological Courses:</i></b>			
<u>SFEL8000</u>	Theory of Science for the Social Sciences	10	A/S
<u>SOS8515</u>	Advanced Social Statistics	10	A
<u>SOS8007</u>	Qualitative Research Methods	10	A
<u>SOS8003</u>	Applied Social Statistics	10	S

***Theoretical/Substantial Courses:***

SOS8522	The Sociology of the Prison	5	A
SOS8523	Ethnicity, migration and religion	5	A
SOS8524	Health and welfare policy	5	A
SOS8525	Rural studies	5	A
SOS8526	Cultural Sociology	5	A

SOS8527	Social Media	5	A
SOS8528	International perspectives on working life, welfare state and family	5	A
SOS8529	Social inequalities in health	5	A

\* The course is not being taught in the academic year 2015/2016/2017. The courses are offered when there is available teaching resources. If 6 or fewer students sign up for a planned course in the series SOS8522-SOS8529 during the first 2 teaching weeks, the course will be offered as an instructed reading course.

Seminars and courses that may replace the above courses must be approved by the Department.

## **THESIS (§ 10 in *PhD*-Regulations)**

### **Supplementary requirements for article based theses**

#### **1. Level**

The level of the thesis should be the same for monographies and article based theses. The articles should meet the standard for publishing in professional journals with peer review.

#### **2. The number of articles**

The thesis should normally consist of four articles of normal size. If a candidate is the sole author of all articles, the number is normally reduced to 3. If many of the articles are co-authored, it must be considered whether the number of articles should exceed 4. It is a prerequisite that the candidate is the main author and has extensive professional responsibility for at least half of the articles included in the dissertation. The number of articles listed herein are indicative, and the overall number of articles has to be assessed on the basis of empirical and theoretical complexity.

#### **3. Summary**

The candidate must be the sole author of the summary of the dissertation. The summary shall present the problems and conclusions presented in the articles in an overall perspective, thereby documenting the coherence of the dissertation. The summary should show the dissertations placement in relation to the research front, what its contribution to the field is, the study's major theoretical frameworks and thorough methodical derivation.

#### **4. Guidelines for co-authorships**

If the articles in the thesis have co-authors, the Vancouver-rules will apply.

- a)** Substantial contribution to conception and design, or acquisition of data, or analysis and interpretation of data.
- b)** Drafting the article or revising it critically for important intellectual content.
- c)** Final approval of the version to be published.

A statement of the co-authorship, where the candidates' contribution is identified, must be a part of the preface of the thesis.

### **Overview over PhD level courses offered at the Department:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
SFEL 8000	Theory of Science for the Social Sciences	10	A/S
SOS 8003	Applied Social Statistics	10	S
SOS8007	Qualitative Research Methods	10	A
SOS8515	Advanced Social Statistics	10	A
SOS8522	The Sociology of the Prison	5	A
SOS8523	Ethnicity, migration and religion	5	A
SOS8524	Health and welfare policy	5	A
SOS8525	Rural studies	5	A
SOS8526	Cultural Sociology	5	A
SOS8527	Social Media	5	A
SOS8528	International perspectives on working life, welfare state and family	5	A
SOS8529	Social inequalities in health	5	A
<u>POL 8502</u>	Causes of War	10	A
<u>POL 8503</u>	International Political Economy	10	A
<u>POL 8507</u>	Policy Analysis	10	A
<u>POL 8508</u>	Foreign Policy	10	A
<u>POL 8509</u>	Media, Opinion and Political Behaviour	10	A
<u>POL 8510</u>	East European Systems since 1740	10	A
<u>POL 8511*</u>	The Catholic and Protestant Churches in World Politics	10	A

<u>POL 8512</u>	The Soviet Union and Russia since 1917	10	A
<u>POL 8513</u>	Political Economy	10	A
<u>POL8514</u>	Qualitative Methods and the Study of Civil War	10	S
<u>POL 8515*</u>	Comparative and International Politics in Japan and East Asia	10	A
<u>POL8518</u>	Applied Theory in Social Science	10	A
<u>POL8519*</u>	The Rise and Decline of Great Powers	10	A
<u>POL8520</u>	The European Union – Rural and Regional Political Economy	10	A

\* The course is not being taught in the academic year 2016/2017

The courses are offered when there are available teaching resources. If 6 or fewer students sign up for a planned course in the series SOS8522-SOS8529 and POL8501-POL8520 during the first 2 teaching weeks, the course will be offered as an instructed reading course.

**Be aware that the following PhD courses overlap with Master's Degree courses:**

SOS8003:SOS3003	10 credits
SOS8007: SOS3007	10 credits
SOS8501:SOS3501	10 credits
SOS8503:SOS3503	10 credits
SOS8506:SOS3506	10 credits
SOS8513:SOS3512	10 credits
SOS8515:SOS3515	10 credits
SOS8516:SOS3516	10 credits
SOS8516:SOS3507	10 credits
SOS8516:SOS3507 (v2)	10 credits
SOS8521:SOS3513	10 credits
POL8502:POL3502	10 credits
POL8503:POL3503	10 credits
POL8507:POL3507	10 credits
POL8508:POL3508	10 credits
POL8509:POL3509	10 credits
POL8510:POL3510	10 credits
POL8511:POL3511	10 credits
POL8512:POL3512	10 credits
POL8513:POL3513	10 credits
POL8515:POL3515	10 credits

POL8518:POL3518 10 credits

POL8519:POL3521 10 credits

POL8520:POL3516 10 credits

## **PROGRAMME DESCRIPTION FOR THE PHD PROGRAMME IN POLITICAL SCIENCE 2016/2017**

### **Objective for the PhD Programme in Political Science:**

#### **Knowledge**

The candidate

- Is at the forefront of knowledge production in Political Science and masters the disciplines theories and methods
- Is able to make decisions based in academic and disciplinary reasoning and by applying various methods and processes in research and academic work.
- Is able to contribute to the development of new knowledge, new theories, interpretations and new ways of documenting knowledge

#### **Skills**

The candidate

- Is capable of formulating research questions for Political Science, and to plan and carry out research and academic work.
- Can conduct research and academic work at a high international level.
- Can work with complex research questions and challenge established disciplinary knowledge and practices.

#### **Competence**

The candidate

- Can identify relevant and ethically sound research questions and perform academic work with integrity
- Can manage complex research projects
- Can disseminate research through well recognized national and international information channels
- Can participate in international discussions within Political Science in international forums.

#### **ORGANIZED ACADEMIC TRAINING (§ 8 in *PhD*-Regulations)**

A plan for the organized academic training component, composed in consultation with the supervisor(s), should be included in the candidate's application. It is recommended that the organized academic training is completed at an early stage of the programme. The candidate is

responsible for signing up for courses within the given deadlines. External courses that are to be a part of the organized academic training must be approved by the Department.

The total work load per ECTS credit is normally the equivalent of 29 hours. The organized academic training component must in total cover at least 30 ECTS credits, of which 20 ECTS credits must be selected from the PhD catalogue. Contact the Department for further information on the national cooperation between the political science departments at Norway's universities concerning the organized academic training. Applications for changes in the accepted plan for the organized academic training component will be determined by the Department on recommendation from the supervisor.

**The organized academic training component consists of three elements:**

- a. The Theory of Science, 10 ECTS credits
- b. Methodological courses, 10 ECTS credits
- c. Theoretical/substantial courses, 10 ECTS credits

Under a. the Faculty offers the course SFEL8000 Theory of Science for the Social Sciences, which is a joint course for all PhD candidates at the Faculty of Social Science and Technology Management. Under 'b' the Department offers the course SOS8007 Qualitative Research methods and SOS8515 Advanced Social Statistics each autumn semester, and the course SOS8003 Applied Social Statistics in the spring semester. Contact the Department for further information. Under c. the Department offers a number of theoretical/substantial courses, see course list below. Each course is credited by 10 ECTS provided they are passed with a grade B or higher and are not part of the candidate's Cand. Polit./Master's Degree. Courses must normally be completed after admission to the PhD Programme.

**Courses that will/may be part of the PhD Programme in Political Science:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
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**The Theory of Science/Methodological Courses:**

<u>SFEL8000</u>	Theory of Science for the Social Sciences	10	A/S
<u>SOS8003</u>	Applied Social Statistics	10	S
<u>SOS8007</u>	Qualitative Research Methods	10	A
<u>SOS8515</u>	Advanced Social Statistics	10	A

**Theoretical/Substantial Courses:**

<u>POL8502</u>	Causes of War	10	A
<u>POL8503</u>	International Political Economy	10	A
<u>POL8507</u>	Policy Analysis	10	A
<u>POL8508</u>	Foreign Policy	10	A
<u>POL8509</u>	Media, Opinion and Political Behaviour	10	A
<u>POL8510</u>	East European Systems since 1740	10	A
<u>POL8511*</u>	The Catholic and Protestant Churches in World Politics	10	A
<u>POL8512</u>	The Soviet Union and Russia since 1917	10	A
<u>POL8513</u>	Political Economy	10	A
<u>POL8514</u>	Qualitative methods and the Study of Civil War	10	S
<u>POL8515*</u>	Comparative and International Politics in Japan and East- Asia	10	A
<u>POL8518</u>	Applied Theory in Social Science	10	A
<u>POL8519*</u>	The Rise and Decline of Great Powers	10	A
<u>POL8520</u>	The European Union – Rural and Regional Political Economy	10	A

\* The course is not being taught in the academic year 2016/2017. The courses are offered when there is available teaching resources. If 6 or fewer students sign up for a planned course in the

series SOS8522-SOS8529 and POL8501- POL8520 during the first 2 teaching weeks, the course will be offered as an instructed reading course.

Seminars and courses that may replace the above courses must be approved by the Department.

## **THESIS** (§ 10 in *PhD-Regulations*)

Requirements for the thesis and rules for evaluation are given in *Regulations concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU)*,

### **Supplementary requirements for article based theses**

#### **1. Level**

The level of the thesis should be the same for monographies and article based theses. The articles should meet the standard for publishing in professional journals with peer review.

#### **2. The number of articles**

The thesis should normally consist of four articles of normal size. If a candidate is the sole author of all articles, the number is normally reduced to 3. If many of the articles are co-authored, it must be considered whether the number of articles should exceed 4. It is a prerequisite that the candidate is the main author and has extensive professional responsibility for at least half of the articles included in the dissertation. The number of articles provided herein, are indicative and the overall number of articles has to be assessed on the basis of empirical and theoretical complexity.

#### **3. Summary**

The candidate must be the sole author of the summary of the dissertation. The summary shall present the problems and conclusions presented in the articles in an overall perspective, thereby documenting the coherence of the dissertation. The summary should show the dissertations placement in relation to the research front, what its contribution to the field is, the study's major theoretical frameworks and thorough methodical derivation.

#### **4. Guidelines for co-authorships**

If the articles in the thesis have co-authors, the Vancouver-rules will apply.

- a)** Substantial contribution to conception and design, or acquisition of data, or analysis and interpretation of data.
- b)** Drafting the article or revising it critically for important intellectual content.
- c)** Final approval of the version to be published.

A statement of the co-authorship, where the candidates' contribution is identified, must be a part of the preface of the thesis.

## **Overview over PhD level courses offered at the Department:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
SFEL 8000	Theory of Science for the Social Sciences	10	A/S
SOS8003	Applied Social Statistics	10	S
SOS8007	Qualitative Research Methods	10	A
SOS8515	Advanced Social Statistics	10	A
SOS8522	The Sociology of the Prison	5	A
SOS8523	Ethnicity, migration and religion	5	A
SOS8524	Health and welfare policy	5	A
SOS8525	Rural studies	5	A
SOS8526	Cultural Sociology	5	A
SOS8527	Social Media	5	A
SOS8528	International perspectives on working life, welfare state and family	5	A
SOS8529	Social inequalities in health	5	A
<u>POL 8502</u>	Causes of War	10	A
<u>POL 8503</u>	International Political Economy	10	A
<u>POL 8507</u>	Policy Analysis	10	A
<u>POL 8508</u>	Foreign Policy	10	A
<u>POL 8509</u>	Media, Opinion and Political Behaviour	10	A
<u>POL 8510</u>	East European Systems since 1740	10	A
<u>POL 8511*</u>	The Catholic and Protestant Churches in World Politics	10	A
<u>POL 8512</u>	The Soviet Union and Russia since 1917	10	A
<u>POL 8513</u>	Political Economy	10	A
<u>POL 8514</u>	Qualitative Methods and the study of Civil War	10	A
<u>POL 8515*</u>	Comparative and International Politics in Japan and East Asia	10	A
<u>POL8518</u>	Applied Theory in Social Science	10	A
<u>POL8519*</u>	The Rise and Decline		

	of Great Powers	10	A
<u>POL8520</u>	The European Union – Rural and Regional Political Economy	10	A

\* The course is not being taught in the academic year 2016/2017.

The courses are offered when there is available teaching resources. If 6 or fewer students sign up for a planned course in the series SOS8522-SOS8529 and POL8501- POL8520 during the first 2 teaching weeks, the course will be offered as an instructed reading course.

**Be aware that the following PhD courses overlap with Master's Degree courses:**

SOS8003:SOS3003	10 credits
SOS8007:SOS3007	10 credits
SOS8501:SOS3501	10 credits
SOS8503:SOS3503	10 credits
SOS8506:SOS3506	10 credits
SOS8513:SOS3512	10 credits
SOS8515:SOS3515	10 credits
SOS8516:SOS3516	10 credits
SOS8516: SOS3507	10 credits
SOS8516:SOS3507 (v2)	10 credits
SOS8521:SOS3513	10 credits
POL8502:POL3502	10 credits
POL8503:POL3503	10 credits
POL8507:POL3507	10 credits
POL8508:POL3508	10 credits
POL8509:POL3509	10 credits
POL8510:POL3510	10 credits
POL8511:POL3511	10 credits
POL8512:POL3512	10 credits
POL8513:POL3513	10 credits
POL8515:POL3515	10 credits
POL8518:POL3518	10 credits
POL8519:POL3521	10 credits
POL8520:POL3516	10 credits

# **STUDY PLAN FOR THE PhD PROGRAMME IN INTER-DISCIPLINARY CHILD RESEARCH 2016/2017**

## **PhD Programme in Inter-Disciplinary Child Research**

The PhD Programme in Inter-Disciplinary Child Research aims to develop the candidate's qualifications for work that requires an advanced degree of scientific expertise. The most important element of the Programme is doing independent research work, resulting in a doctoral thesis, which seeks to achieve an advanced scientific standard. The candidate is to complete training which both complement the work with the thesis, and contribute to the necessary academic requirements. The Programme is to provide the basis for an independent, creative and critical perception of one's own and others' research, as well as provide practice in communicating research results in academic and other forums.

## **Learning outcomes PhD in Interdisciplinary Child Research**

### **Knowledge**

- The candidate has a good overview of central questions within interdisciplinary child research and up-to-date knowledge on central theoretical and methodological approaches recognized internationally.
- The candidate has thorough knowledge of national and international research as well as debates regarding the topic of the thesis.

### **Skills**

- The candidate has skills needed for planning and carrying out independent research on a sound academic level, which fulfils adequate ethical principles for child research.
- The candidate is enabled to analyse relevant issues within interdisciplinary child research in a reflexive and well informed manner.
- The candidate is enabled to disseminate own research for a national and international research community.

### **General competence**

- The candidate has adequate competence in disseminating research; communicating verbally and in writing through well respected national and international channels.
- The candidate is skilled to participate in debates on interdisciplinary child research.
- The candidate manages independently to plan and carry out research within interdisciplinary child research.
- The candidate's relationship to own and other research are characterized by reflexivity; including ethical and societal questions.
- The candidate is qualified in critical and analytical thinking on topical and societal issues.

## **ADMISSION (§ 5 in Regulations)**

The applicant must have a master's degree or equivalent education within the fields of the Social Sciences or the Humanities.

Applicants from other faculties of relevance to child research may also be considered for admission.

The applicant must have an average grade of master's or equivalent education with a grade of B or higher. Applicants who are unable to meet these criteria may only be admitted if they can document that they are suitable candidates for education leading to a PhD degree.

## **Application deadlines**

Applications to the PhD Programme in Inter-Disciplinary Child Research will be considered continuously

## **ACADEMIC DISSEMINATION** (§ 5.2 in Regulations)

All candidates must present their PhD project at conferences, research courses and research seminars at NOSEB.

## **ORGANIZED ACADEMIC TRAINING** (§ 8 in Regulations).

The organized academic training component consists of three elements:

- The Theory of Science, 10 credits
- Methodological courses, 10 credits
- Theoretical/substantial courses, minimum 10 credits

NOSEB offers lectures in two PhD courses per academic year.

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Semester</b>
<a href="#"><u>BARN8101</u></a>	Social Studies of Children and Childhood: Research Perspectives	10	A
<a href="#"><u>BARN8200</u></a>	Methodology in Child and Childhood Research	10	A

Be aware that the following PhD courses overlap with following courses:

BARN8101 - BARN8001, 10 cr

BARN8200 - BARN8002, 10 cr

In addition, NOSEB offers other PhD courses in Child Research at regular intervals. These courses may be affiliated with larger externally financed research projects. The Faculty approves each individual plan for the organized academic training component on the recommendation of the supervisor and NOSEB.

## **THESIS** (§ 10 in Regulations)

Requirements for the thesis and rules for evaluation are given in *Regulations concerning the philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU)*.

If the thesis consists of a number of smaller pieces of work (normally 3-5 articles/chapters in a book), the candidate must be the sole or main author of at least half of them.

# **PROGRAM DESCRIPTION FOR THE JOINT PhD IN BEHAVIOUR AND HEALTH**

**Between**

**The Australian National University (ANU),  
College of Medicine, Biology and Environment,  
Research School of Psychology, Institute for population health and  
Faculty of Medicine**

**and**

**The Norwegian University of Science and Technology (NTNU),  
Faculty of Social Sciences and Technology Management,  
Department of Social Work and Health Science  
Department of Psychology**

**Faculty of Medicine  
Department of Public Health and General Practice**

The programme description is based both on the Australian National University (ANU) Regulations for PhD candidature (found at <http://www.anu.edu.au/sas/hdr/researchguide.php>

and Regulations concerning the *philosophiae doctor degree (PhD) at the Norwegian University of Science and Technology (NTNU)*, (found at [http://www.ntnu.no/studieavd/dok/PhD\\_regulations.pdf](http://www.ntnu.no/studieavd/dok/PhD_regulations.pdf)).

The two collaborating entities will each appoint two members to a Joint Management Committee/Academic Programme Committee (JMC/JAC) of four members to manage the collaboration. The Committee would normally be made up of the relevant Dean (or nominee) in each of the two universities and another member nominated by the Heads of the respective collaborating Schools/Departments. The appointment of Committee members from each university should be at the absolute discretion of that university.

Both universities are equally responsible for the programme, but all students admitted will have one *home* university (the university in which their principal/initial enrolment has taken place) and one *host* university (the university in which they will reside for a specified period in order to advance their PhD studies). Each student will have a supervisory panel of three; of whom the Principal Supervisor will be from the *home* university, the Co-Supervisor will be from the *host* university, and the third will be appointed from either university in order to offer special expertise in the student's area of study.

It will be mandatory over the period of candidature for the student to reside for at least one semester in the *host* university and to take at least one PhD (advanced level) course (typically of 26 hours of

class instruction) in the *host* university. The course can be one which is currently offered at postgraduate level by either university or one specially designed for this PhD program (a course of specified reading, for example, designed by the relevant supervisor to meet the student's particular needs). This course should be formally assessed by examination or assignment in a manner consistent with the regulations of the relevant university.

Responsibility for all expenses associated with the program, including fees and other charges levied by the *home* university, rests totally with the individual student unless otherwise covered by a scholarship. The Supervisor in the *home* university must undertake to provide each enrolled student with the facilities and resources necessary to carry out the research component of the PhD program in a manner consistent with that university's current policies regarding the provision of resources for PhD studies. The Co-Supervisor in the *host* university will, however, take responsibility to ensure that the student is also provided with the necessary infrastructure for research and other work undertaken during the period of residency in the *host* university, again consistent with that university's current policies regarding the provision of resources for PhD studies. Given the joint nature of the program the Co-Supervisor in the *host* university will also work to integrate the visiting student into the existing network of relevant PhD students in the host School or Department.

At completion of the program the student will be awarded a single testamur recognizing both universities. The testamur will state the collaborative nature of the program and the area of study (PhD in Behaviour and Health). The testamur will be in English.

## **DESCRIPTION OF THE PROGRAMME**

The individual student's study and research plan will be formulated through collaborative discussions between the candidate and prospective supervisors, depending on the area of research and the candidate's individual requirements and wishes, and formally endorsed by the Academic Program Committee.

### **Areas of study**

The PhD Program in Behaviour and Health will cover a wide range of potential areas of study reflecting existing and developing research programs in the collaborating universities. The objectives are to:

- Provide students with a rich research environment based on access to health research facilities and projects in contemporary areas of knowledge and practice in health research; and
- Create synergies through collaboration which will offer students opportunities not immediately available within single research environments.

As a guide the following areas of current research activity, and of potential complementarities, will be immediately available to participating students in the joint program:

<b>ANU Behaviour and Health</b>	<b>NTNU Behaviour and Health</b>	<b>Possible Complementarity</b>
Adolescent stress and health	Adolescent stress and health	✓

Children's lifestyle and health	Lifestyle and health	✓
Measurement of stress in children and adolescents	Measurement of stress in children and adolescents	✓
Occupational stress	Health in the "new" work life	✓
Type A behaviour and cardiovascular disease	Cardiovascular health	✓
Coping with cancer	Survivors of cervix cancer, Quality of life in cancer patients	✓
	Health promotion research	
	Public health research	
Measurement of stress		
Substance use and abuse		
Eating disorders	Anorexia nervosa research	✓
Adolescent attachment and health		
	Disability research	
	Self-damage and suicide	
Clinical neuropsychology	Brain dysfunction and health	✓
	Epidemiology: The Nord-Trøndelag health study (HUNT)- population study. National quality registers in Myocardial Infarction and Stroke Prevention	
	Exercise as treatment/prevention strategy	
	"Perception and communication of life and health threats" "Long term health" "Resilience, vulnerability, risk and protective factors"	
	"Healthy organizational change",	
	"Good health interventions for work life improvement	
	"Eustress"	
	"Prevalence of depressive and anxiety disorders in the normal population ", "Treatment of anxiety and depression	

	with cbt and metacognitive therapy"	
	"Darwinian medicine and evolutionary psychopathology"	

### **Objective of the PhD Programme in Behaviour and Health**

The Program provides the basis for an independent, creative and critical perception of one's own and others' research, as well as providing practice in communicating research results in academic and other forums, and applying the results of research to a wide range of both clinical and policy applications.

### **ADMISSION**

Admission to candidature in the program will be governed by the rules and regulations applying to the two collaborating universities at any time. Enrolment in the *home* university will therefore be strictly in accord with the requirements of that university for admission generally to PhD study, and the *host* university will accept these requirements.

#### **For the ANU:**

Admission will rest on possession of an Honours degree at the upper second (IIA) level or better, or possession of a postgraduate master degree from a recognized university, in psychology or a closely related field of study.

#### **For the NTNU:**

Admission will rest on possession of a 2-year Master's degree from a recognized university or equivalent education, within the fields of Psychology, Health Sciences, Medicine, Human Movement Science or Social Sciences. The applicant must have a weighted average grade of Master's or equivalent education with a grade B or higher in accordance with NTNU's grading system.

Applicants who are unable to meet these criteria may only be admitted if they can successfully argue to the Academic Program Committee that they are in other ways academically suitable candidates for PhD study. For admission to be granted on this basis unanimous agreement of the Committee is necessary.

### **Application requirements**

Applicants for admission should carefully consult the respective admission requirements of the chosen *home* university. All applications should be sent to, and processed by the chosen *home* university.

For the ANU, potential applicants should go to: <http://www.anu.edu.au/sas/forms/ - Admission forms> and follow the links through to application/enrolment information and forms.

For the NTNU, potential applicants should go to <http://www.ntnu.edu/svt/phd-programme> and follow the links through to application/enrolment information and forms.

### **Application process**

The Academic Program Committee/Joint Management Committee will consider all applications for admission after evaluation from the relevant school or department. Recommendations for admission will then go either to the Dean of the Faculty of Science (for ANU) or the Dean of the Faculty of Social Sciences and Technology Management or the Dean of Medicine (for NTNU) for approval

and subsequent processing through the relevant university systems. At NTNU, the Faculty of Social Sciences and Technology Management is responsible for, and manages this joint PhD programme.

### **Decision of admission**

The decision concerning admission, having been based on a collective evaluation of the application, is considered final. Admission to a PhD Programme is then formalised by way of the processes currently in place in either of the collaborating universities.

### **PhD PLAN**

The project plan should emphasize;

- the importance of the topic for the broad understanding of behaviour and health;
- the primary theoretical issues on which the research proposal is based;
- the methodological (and statistical) issues which will need to be addressed in carrying out the research;
- the ethical issues which might arise during the course of the research; and
- the primary outcomes (including publications or presentations to conferences of international standing) which can be expected from the research.

This should be presented as part of the application in a covering document of between 3 and 5 pages.

### **Funding plan**

For applicants who are not fully funded through scholarship schemes, it is normally required that they will give a detailed account of how they will complete the Program without external funding, bearing in mind that successful completion requires international travel. An assessment of this will be made for each candidate upon application and this will be taken into account in the selection process. Applicants are reminded that completion of the program requires between 3 and 4 years of full-time study.

### **Supervision**

Work on the PhD thesis constitutes active research under supervision.

Procedures for selection and conduct of supervision of students enrolled at the ANU as the *home* university will be governed by regulations as set out in <http://www.anu.edu.au/sas/hdr/candidature.php>

And

[http://policies.anu.edu.au/policies/code\\_of\\_practice\\_supervision\\_in\\_higher\\_degrees\\_by\\_research/policy](http://policies.anu.edu.au/policies/code_of_practice_supervision_in_higher_degrees_by_research/policy)

Procedures for selection and conduct of supervision of students enrolled at the NTNU as the *home* university will be governed by regulations as set out in <http://www.ntnu.edu/svt/phd-programme>.

### **Residency requirement**

A plan for how the residency requirements to the *host* university will be met is to be presented in the application and in the agreement on supervision.

The main intention of the residency requirement is that the candidate is to actively participate in an academic environment at the *host* university.

## **Participation in active research groups internationally**

The cooperating university units in the PhD Programme in Behaviour and Health have a comprehensive network of contacts with both national and international research groups. Candidates are encouraged to participate in these groups in order to establish and make use of the contacts with acknowledged researchers nationally and internationally.

## **ACADEMIC DISSEMINATION**

All candidates participating in the program will be actively encouraged to present the results of their work in appropriate ways, including but not limited to publication in refereed journals of international standard, presentation at both national and international conferences, and similar activities.

## **REPORTING**

The candidate and supervisors will deliver separate annual reports on progress to the Academic Program Committee /Joint Management Committee and continuation of candidature may rest with the satisfactory evaluation of these reports. Candidates and supervisors are also required to adhere to the progress reporting requirements of their respective *home* universities.

## **FORMAL ACADEMIC COURSE WORK**

Candidates will have access to, and will be expected to take, formal academic coursework components as part of their candidature. This serves to complement the major research component of the candidature and to provide candidates with new perspectives on behaviour and health by exposing them to courses and ideas typically only available in the *host* university.

The minimum requirements are set out in the agreement between the two parties as signed by the ANU on 15/9/11 and by NTNU on 14/11/11. The two parties will offer courses that are consistent with, and complement the areas specified in the table above (see page 3 & 4). The courses offered in this program will be those that are normally available as part of the educational programs of the two respective universities which are part of the agreement to which this document refers, and details of which can be found on the respective course handbooks of each university.

### **Examples of courses offered\* in the PhD Program:**

(24 units at ANU = 30 credits at NTNU)

<b>At ANU:</b>		
<b>Code</b>	<b>Title</b>	<b>Units</b>
PSYC 4005	Advanced psychological statistics	
PSYC 8104	Health psychology	
PSYC 8102	Psychopharmacology	
PSYC 8303	Nevropsychology and aging	

  

<b>At the NTNU:</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<a href="#"><u>HLS8008</u></a>	Research on health promotion/Positive health research	5
<a href="#"><u>HLS8014</u></a>	Current Issue	5
<a href="#"><u>HLS8018</u></a>	Children of the Welfare State	5
<a href="#"><u>KLMED8004</u></a>	Medical Statistics, Part I	7.5

<a href="#"><u>KLMED8005</u></a>	Medical Statistics, Part II	7.5
<a href="#"><u>PSY8002</u></a>	Risk Perception and Risk Communication	10
<a href="#"><u>PSY8003</u></a>	Multivariate Research Methods	10
<a href="#"><u>PSY8005</u></a>	Human Psychophysiology: High-Density EEB Analysis	10
<a href="#"><u>PSY8006</u></a>	Introduction to Structural Equation Modelling (with MPlus)	10
<a href="#"><u>SARB8008</u></a>	Ethnicity and diversity	5
<a href="#"><u>SARB8010</u></a>	Social exclusion	5
<a href="#"><u>SMED8002</u></a>	Epidemiology II	7.5
<a href="#"><u>SMED8004</u></a>	Introduction to Research	5
<a href="#"><u>SMED8005</u></a>	Communication of Science	3

\* There may be changes in this index. Please contact ANU or NTNU for updated information.

## **THESIS PRODUCTION, SUBMISSION AND EXAMINATION**

The Joint Academic Committee/Joint Management Committee will, on recommendation from the supervisors and/or departments, approve the thesis to be submitted for external examination. In accordance with the agreement between the two universities, the specific process of examination will be consistent with the rules and regulations of the home institution as set out in § 3.1 in the agreement.

The form which the thesis takes, and the methods of assessment and examination, will be determined by the rules governing thesis production, submission and examination which hold for the *home* university at any time. Independent of form, the thesis will be of an academic standard consistent with that required in the discipline as evidenced by contemporary publications in refereed journals of high international standing.

Appointed supervisors may not be members of the assessment committee or administrate its activities.

No restrictions may be placed on a PhD thesis being made publicly available.

### **For the ANU:**

For the ANU as home university this information may be found at  
<http://www.anu.edu.au/sas/hdr/thesis.php> and

[http://policies.anu.edu.au/guidelines/research\\_theses\\_submission\\_and\\_examination\\_information\\_for\\_higher\\_degree\\_research\\_students/guideline](http://policies.anu.edu.au/guidelines/research_theses_submission_and_examination_information_for_higher_degree_research_students/guideline)

### **For the NTNU:**

For more information, *The Regulations for the philosophiae doctor degree (PhD) at the Norwegian University of Science and Tehnology (NTNU)* may be found at <http://www.ntnu.edu/svt/phd-programme/regulations>.

For the NTNU as home university more information may also be found at  
<http://www.ntnu.edu/svt/phd-programme>.