

Pharmacy

[See study programme](#)

Autumn 2024 (1. semester)

Laboratory Safety	FAR1011 0 sp
Cell Biology, Microbiology and Physiology (1/2)	FAR1013 0 sp
The Shared Value and Knowledge Base of Health Professionals	HEL1000 5 sp
Social Pharmacy	FAR1012 5 sp
Pharmaceutical Chemistry 1	FAR1000 10 sp

Spring 2025 (2. semester)

Pharmaceutical Chemistry 2	FAR2013 12.5 sp
Pharmaceutical Manufacturing	FAR1014 10 sp
Cell Biology, Microbiology and Physiology (2/2)	FAR1013 17.5 sp

Autumn 2025 (3. semester)

Pharmaceutical Analysis	FAR2017 7.5 sp
Sterile Manufacturing	FAR2016 5 sp
Medicinal Chemistry (1/2)	FAR2015 0 sp
Pharmacology 1	FAR2014 12.5 sp

Spring 2026 (4. semester)

<u>Pharmaceutics</u>	FAR2019 10 sp
<u>Pharmacology 2</u>	FAR2018 15 sp
<u>Medicinal Chemistry (2/2)</u>	FAR2015 10 sp

Autumn 2026 (5. semester)

<u>Interdisciplinary Collaboration in the Health Services</u>	HEL1001 5 sp
<u>Medicines and Public Health</u>	FAR2020 5 sp

Valgbare emner

<u>Pharmaceutics in Aquaculture</u>	FAR2021 20 sp
<u>The Pharmacist's Role in Society</u>	FAR2022 20 sp

Spring 2027 (6. semester)

<u>Pharmacy Practice and Clinical Pharmacy</u>	PRA2051 30 sp
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Programme description

The Bachelor of Pharmacy is a professional qualification that provides pharmaceutical competence. After completing the programme, candidates may apply for a licence as a *reseptarfarmasøyt* in Norway. This title does not necessarily mean you are an authorized pharmacist in other countries, as most countries require a Master's degree. Only authorized pharmacists can sell and dispense prescribed medicines.

The study programme consists of chemical, pharmaceutical, life sciences and social pharmacy courses. It also includes two courses that are common to all the health and social sciences Bachelor's degree programmes at the Faculty of Nursing and Health Sciences at Nord University. These courses include the provision of valuable insight into the role of healthcare professionals and cross-professional cooperation.

A period of supervised professional training in a pharmacy (four months) is included during the sixth semester. In order to ensure work relevance and strengthen pharmaceutical expertise, the study programme cooperates with the health and business sectors. During the fifth semester students can choose between specialization in two elective courses: one involving scientific specialization in marine pharmacy science and one specializing in social pharmacy. Exchange visits are also organized during the same semester.

The study programme courses provide a holistic understanding of the chemistry, production, quality, use, effects,

and side effects of medicines along with gradual progression in all disciplines. The programme has a continual focus on patient safety, quality assurance, critical assessment and reflection, and aims to make provisions for lifelong learning. The programme's learning and teaching methods vary considerably and have a consistently high percentage of student-active forms of learning and varied forms of assessment. Peer learning and assessment is included in many of the courses. Digital tools are included as a natural part of the teaching, and some of the teaching is done online.

The programme has progression requirements:

All courses during the first semester must be passed in order to attend teaching in third semester courses.

All courses during the second semester must be passed in order to attend courses taught in the fourth semester.

All courses during the third semester must be passed in order to attend courses taught in the fifth semester.

All courses during the fourth semester must be passed in order to attend courses taught in the sixth semester.

Further details about the progression requirements can be found in the prerequisite knowledge requirements for each course. Separate progression requirements will apply if the student in question will be going on an exchange visit abroad.

The *Laboratory Safety* course must be passed to gain access to the laboratory exercises in all courses. No exceptions will be made for students who have completed HSE training at another campus at Nord University or with another organization.

Learning outcomes

Knowledge

The candidate

has in-depth knowledge of the origins and chemical and physical properties of key substances

has broad knowledge of the composition and manufacture of key types of pharmaceuticals, as well as their physical, chemical and biopharmaceutical properties

has broad knowledge of the effects, side effects and use of medicines in the prevention and treatment of physical and mental illnesses

has knowledge about the choice and execution of key analytical methods for pharmaceuticals

has knowledge of how prescription and use of veterinary medicines can help to ensure good animal health and food safety

has knowledge about the history of pharmacy and the professional role of the pharmacist

is familiar with national and global public health challenges

Skills

The candidate

is able to use their academic knowledge to identify and manage pharmaceutical problems, supervise and facilitate user participation when dispensing medicines and selling medical equipment and other pharmacy products

is able to use relational, communication and supervisory skills to understand, interact with and supervise users, patients, relatives, students and healthcare personnel who are in the process of learning, mastering or changing processes, including being able to motivate and contribute towards shared decision making and self-care

is able to use, maintain and acquire new knowledge, critically assess information and undertake professional assessments, decisions and actions in accordance with evidence-based practice

is able to use basic mathematical, statistical and epidemiological methods to investigate practical and theoretical pharmaceutical issues

is able to master independent and safe provision of services in accordance with statutes, regulations and professional ethical guidelines

is able to master relevant laboratory techniques, including the manufacture of sterile and non-sterile medicines

is able to reflect upon their own professional practice, and can modify this as a result of supervision and feedback

is able to provide pharmaceutical services that ensure the correct use of medicines and patient safety

General competence

The candidate

has insight into and is able to identify, reflect on and address ethical issues in pharmaceutical professional practice, show respect for the users of pharmaceutical services and provide guidance that safeguards the integrity and rights of users

has insight into and an understanding of how pharmacovigilance, quality systems and quality and improvement work contribute towards the safe use of medicines and enhanced patient safety

has digital expertise with insight into e-health, welfare technology and digital security, and is able to assist in the development of and use suitable technology at both the individual and system level

is able to convey their pharmaceutical knowledge to all relevant groups, and is able to initiate, plan and implement interdisciplinary and interprofessional cooperation

is familiar with innovative thinking and innovation processes and is able to contribute towards service innovation, entrepreneurship and systematic and quality-enhancing work processes

Admission requirements

Admission to the programme requires higher education entrance qualifications.

Applicants who do not have higher education entrance qualifications and are 25 years of age or older may apply for admission on the basis of prior learning and work experience. A certificate or good conduct is required.

Special admission requirements

Mathematics R1 (or Mathematics S1 + S2) and Chemistry 1 + either Physics 1 or Biology 1 or Chemistry 2.

Progression requirements

The programme has progression requirements:

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All courses during the second semester must be passed in order to attend courses taught in the fourth semester.

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All courses during the fourth semester must be passed in order to attend courses taught in the sixth semester.

Further details about the progression requirements can be found in the prerequisite knowledge requirements for each course. Separate progression requirements will apply if the student in question will be going on an exchange visit abroad.

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Career possibilities

With a bachelor's degree in pharmacy you can, in Norway, apply for authorization as a "reseptarfarmasøyt". Reseptarfarmasøyer are healthcare professionals with specialist expertise relating to the manufacture, quality assurance, use and effects of medicines. Mark that most other countries require you to take a Master's degree in pharmacy (authorized as "provisorfarmasøyt" in Norway) to gain authorization as a pharmacist. Pharmacists may work in pharmacies, hospitals, the primary health service and the pharmaceuticals industry, or for wholesalers.

Further education

A Bachelor's degree in Pharmacy will provide the foundation for a Master's degree in Pharmacy at the NTNU (Norwegian University of Science and Technology) and UiT (University of Tromsø). Upon completion of the master's degree, students can apply for authorization as a provisorfarmasøyt. The requirements for the master of pharmacy are described in EU Directive 2013/55/EU.

The bachelor programme also qualifies graduates to undertake a number of other master's studies that require a 3-year bachelor's degree in health for admittance, e.g. a master's degree in practical knowledge or a master in health sciences at Nord University. Please contact the study supervisor if you have questions in this respect. The following website, www.farmasifag.no/kan, will provide you with insight into what it's like to be a pharmacy student, the job opportunities that are available and places offering pharmacy studies in Norway.

Study abroad

Would you like to study or have an internship abroad?

As a pharmacy student, you can apply to go on exchange during the fifth semester. You can go to Finland or Portugal, and we are working on developing more exchange agreements all over the world. Please contact the International advisor at the Faculty: fsh-international@nord.no for more information on which universities we have agreements with, or you can order a meeting concerning exchange [her](#). You can also read more about your

exchange possibilities [her](#).

In order to go on exchange, you need to have passed all exams that has been arranged so far in your education, before you can go. All grades achieved in the study program are used to calculate the weighted mean grade.

International students may attend selected courses during the fifth semester. If international students attend, the teaching in these courses will be in English.

Costs

In addition to the semester fees and course literature, students are expected to provide their own laptops, webcams and headphones. Students must obtain their own laboratory coats, suitable shoes for laboratory work and a calculator approved for the study programme. Students must expect some expenses in connection with their supervised practical training and exchange visits, if applicable. Please see the relevant guidelines on cost-sharing/co-payment.

Assessment methods

The study programme includes various forms of assessment in line with the university's approved forms of assessment. *Required coursework*, such as written assignments or laboratory reports, is used to facilitate learning and contribute towards the achievement of the learning outcome descriptions.

Compulsory attendance is required when courses require student attendance to obtain the learning outcomes. The requirements relating compulsory attendance are marked in the timetable and are included in the individual course descriptions. The programme includes both individual and group examinations, and the assessment methods are varied to include oral, practical and written examinations, assignments and portfolio examinations.

Exams and assessments for courses in this study program is described in Studentweb.

Programme evaluation

The programme of study is evaluated annually by the students in course surveys and study programme evaluations. These evaluations are part of the university's quality assurance system.

Qualifications requirements and regulations

Refer to [applicable legislation](#), regulations and related guidelines

Suitability

The suitability of students is assessed throughout the programme, in accordance with the [Regulations relating to suitability assessment in higher education](#).

Practice

The programme includes four months of supervised practical training. Please see the course description for Clinical pharmacy and pharmacy practice for further details.