

Programme

Qualification awarded

Bachelor of Science

Length of the programme

48 months

ECTS credits

240

Level of qualification

Bachelor

Mode

Full-time

Language

Dutch, with parts in English

School

Engineering, Life Sciences & ICT

Locations

Groningen

Major Biology and Medical Research

Profile of the programme

No content available

Learning outcomes

Graduates in Biology & Medical Laboratory Research are employed as research or diagnostic technicians in biological and medical laboratories of universities, hospitals, research institutes, industry and public health organizations

The graduate of the Bachelor of Biology & Medical Laboratory Research programme can demonstrate that s/he has achieved the ability to:

Conduct experiments in the Applied Science domain in a way that ensures that demonstrably reliable results are obtained by:

- accurately managing both data and samples;
- making proposals for reagents and equipment and formulate recommendations for future research;
- practicing a range of laboratory techniques and computer software skills;
- establishing a work plan for a number of experiments and apply this plan effectively and efficiently, and make appropriate adaptations;
- conducting experiments accurately and responsibly within a predefined time period.

Perform research in the Applied Science domain which either helps to solve a problem or develop a method, or provides a greater understanding of a subject within his specific working environment, by

- explaining the aim of a study and the research methods used;
- demonstrating research and information retrieval skills and using relevant bibliographic literature;
- independently drafting a work plan and accounting for the preconditions;
- logically and orderly combining results and drawing conclusions in relation to the research question;

The graduate demonstrates various generic competences by:

- taking initiatives to contact colleagues in order to exchange information and communicate conclusions to different levels in the organisation;
- contributing to the guidance and/or development of colleagues;
- showing professional attitude by being a motivated, flexible and valuable colleague;
- interpreting professional and ethical dilemmas and making decisions accordingly;
- critically evaluating own points of view and actions and taking responsibility for them;
- improving his own performance by self-reflection and receiving feedback.

Programme

Major Biology and Medical Research

credits

	60
□ Theme 1 - Diversity of Life	15
▫ BOVP23RINTROLAB - Laboratory Introduction	5
▫ BOVP23RVISUAL - Visualisation of Cells and Tissues	5
▫ BOVP23RANALIST - The Biological Research Technician	5
□ Theme 2 - Cell Biology	15
▫ BOVP23RBBBO - Calculation and Preparation of Buffers and Solutions	5
▫ BOVP23RCELMETABO - Basic Cell Biology and Metabolism	5
▫ BOVP23RMICROBIO - Introduction to Microbiology	5
□ Theme 3 - Macromolecules	15
▫ BOVP25RMLABTECHN - Molecular Laboratory Techniques	5
▫ BOVP25RCTRDOGMA - The Central Dogma	5
▫ BOVP23RPRJMOLBIO - Project Molecular Biology	5
□ Theme 4 - Heredity	10
▫ BOVP23RGENETICA - Introduction to Genetics	5
▫ BOVP23RPROFESS - The Professional	5
□ Electives	5

selection of following courses

▫ LSVX23ANATOMIE - Human Anatomy and Physiology: The Human Body under the Magnifying Glass	5
▫ LSVX23OCTAVEMATL - Programming in Octave/MATLAB	5
▫ LSVX23PYTHON - Introduction Programming in Python	5
▫ LSVX24COMMUNICAT - Communication Skills	5
▫ LSVX24CREATIEF - Creative Writing	5
▫ LSVX24INDUSTRBIO - Introduction to Industrial Biotechnology	5
▫ LSVX24INFECTIE - Infectious Diseases	5
▫ LSVX24INLENERGIE - Introduction to the Energy Transition	5
▫ LSVX24INLPSY - Introduction to Psychology	5
▫ LSVX24KLIMAAT - Climate Change and Saline Soils	5
▫ LSVX24MEDICIJN - Drug Discovery	5
▫ LSVX25PATIENT - Preparing patients for surgery: diagnostics and care at Nij Smellinghe	5
▫ LSVX25VOEDING - Healthy, Durable and Safe Food	5
Year 2	60
▫ Theme 5 - Biochemistry and Enzymology	15
▫ BOVH24RBIOCHEMIE - Biochemistry	10
▫ BOVH24RENZYMEN - Project Enzymes in Fungi	5
▫ Theme 6 - Biology of Bacteria	15
▫ BOVH24RMICROBIO - Microbiology	10
▫ BOVH24RMOLMICRO - Molecular Microbiology	5
▫ Theme 7 - Medical Biology of Animals and Human Cells	15
▫ BOVH24RIMMUNO - Immunology	10
▫ BOVH24RGENETICA - Genetics	5
▫ Theme 8 - Biotechnology of Plants	10
▫ BOVH24RPLANTBIO - Plant Physiology & Biotechnology	10
▫ Electives	5
<i>selection of following courses</i>	
▫ LSVX23ANATOMIE - Human Anatomy and Physiology: The Human Body under the Magnifying Glass	5
▫ LSVX23OCTAVEMATL - Programming in Octave/MATLAB	5
▫ LSVX23PYTHON - Introduction Programming in Python	5
▫ LSVX24COMMUNICAT - Communication Skills	5
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▫ LSVX25PATIENT - Preparing patients for surgery: diagnostics and care at Nij Smellinghe	5
▫ LSVX25VOEDING - Healthy, Durable and Safe Food	5
Year 3	60
▫ Theme 9 - Molecular Biology	15
▫ BOVH25RPJGENETIC - Project Genetic Engineering	10
▫ BOVH25RDATAVISUA - Data Analysis & Data Visualisation	5
▫ Theme 10 - Cell Biology & Oncology	15
▫ BOVH25RPRJCELL - Project Cell Biology & Oncology	10
▫ BOVH25RHUMANGENS - Human Genetics & Cell Biology	5
▫ Electives	30
<i>electives</i>	
Year 4	60
▫ Work placement	30
▫ BOVH26RSTAGE - Practical Learning Period	30
▫ Final Project	30
▫ BOVH26RAFSUDEER - Final Project	30

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