Hanze

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
Institute for Life Science & Technology

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
- LSVX23CIRCUCHEM - Applied Circular Chemistry 5
- LSVX23FILOSOFIE - Science Philosophy and Ethics 5
- LSVX23HEALTHY - Healthy Ageing 5
- LSVX23LABVAARDIG - Introduction Laboratory Skills 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
- LSVX24PERSPRJ - Personal Project Space 5
- LSVX25PATIENT - The patient fit and prepared 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*

  selection of following courses
  - LSVX23ANATOMIE - Human Anatomy and Physiology: The Human Body under the Magnifying Glass 5
  - LSVX23CIRCUCHEM - Applied Circular Chemistry 5
  - LSVX23FILOSOFIE - Science Philosophy and Ethics 5
  - LSVX23HEALTHY - Healthy Ageing 5
  - LSVX23LABVAARDIG - Introduction Laboratory Skills 5
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  - LSVX24PERSPRJ - Personal Project Space 5
  - LSVX25PATIENT - The patient fit and prepared 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*

  electives

Year 4 60

- Work placement *30*
  - BOVH19RSTAGE - Practical Learning Period *28*
  - LSVH15KWALZ - Quality Assurance *1*
  - LSVH15ARBO - Health & Safety *1*
- Final Project *30*
  - BOVH15RAFST - Final Project *30*

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