

## 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
▫ BOVP23RMOLLABTN - Molecular Laboratory Techniques	5
▫ BOVP23RDOGMA - The Central Dogma	5
▫ BOVP23RPRJMOLBIO - Project Molecular Biology	5
□ Theme 4 - Heredity	10
▫ BOVP23RGENETICA - Introduction to Genetics	5
▫ BOVP23RPROFESS - The Professional	5
▫ Electives	5

Year 2	60
□ Theme 5 - Microbiology	15
▫ BOVH19RTHM5 - Laboratory theme 5	5
▫ BOVH3BMT1 - Biomethods 1	3
▫ BOVH15RMBI1 - Microbiology 1	3
▫ BOVH15RBCH1 - Biochemistry 1	3
▫ BOVH19RVSL - Report Writing	1
□ Theme 6 - Biochemistry of Yeasts and Molds	15
▫ BOVH3THR6 - Laboratory theme 6	5
▫ BOVH15RBCH2 - Biochemistry 2	3
▫ BOVH7STA3 - Statistics 3	3
▫ BOVH17RBIN2 - Bio-Informatics 2	3
▫ LSVH7STB2A - Academic Counselling Year 2 - Part 1	1
□ Theme 7 - Biotechnology of Plants	15
▫ BOVH19RTHM7 - Laboratory theme 7	5
▫ BCVH3IML1 - Immunology 1	3
▫ BOVH3BMT2 - Biomethods 2	3
▫ BOVH17PFY1 - Fysiology of Plants	3
▫ BOVH19RPENG - Poster / English	1
□ Theme 8 - Immunology	15
▫ BOVH3THR8 - Laboratory theme 8	5
▫ BOVH3IML2 - Immunology 2	3
▫ BOVH15RMBI2 - Microbiology 2	3
▫ BCVH3GEN1 - Genetics 1	3
▫ LSVH7STB2B - Academic Counselling Year 2 - Part 2	1
Year 3	60
□ Theme 9 - Molecular Biology 2	15
▫ BOVH20RTHM9 - Laboratory Course Theme 9	6
▫ BOVH20RMOLBIO1 - Molecular Biology 1	3
▫ BOVH20RBIN3 - Bio-informatics 3	3
▫ BOVH20RSWE - Scientific Writing in English	2
▫ LSVH20AC3A - Academic Counselling	1
□ Theme 10 - Oncology	15
▫ BOVH20RTHM10 - Laboratory Course Theme 10	6
▫ BOVH20RPATH1 - Pathology 1	3
▫ BOVH20RGENS2 - Genetics 2	3
▫ BOVH20RCELLB1 - Cell Biology 1	3
▫ Electives	30
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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