

## 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 Medical Diagnostics

### 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 Medical Diagnostics

### credits

	60
□ Theme 1 - The healthy human	15
▫ BOVP15MDPR1 - Practical Assignment	4
▫ BOVP15MDTUTOR1 - Tutorial	1
▫ BOVP4NAT1 - Physics 1	2
▫ LSV15BVWIS - Mathematics basic skills	1
▫ BOVP6ANF1 - Anatomy / Physiology 1	3
▫ BOVP15MDCHM1 - Chemistry 1	3
▫ LSV15SVNED - Basic Dutch Skills	0
▫ LSV15STB1A - Academic Counselling/Introduction Term 1	1
□ Theme 2 - Blood, sweat and ...	15
▫ BOVP15MDPR2 - Practical Assignment	5
▫ BOVP15MDTUTOR2 - Tutorial	1
▫ BOVP15MDBIN1 - Bio-Informatics 1	1
▫ BOVP4STA1 - Statistics 1	1
▫ BOVP6ANF2 - Anatomy / Physiology 2	3
▫ BOVP15MDCHM2 - Chemistry 2	3
▫ LSV15STB1B - Academic Counselling Term 2	1

▢ Theme 3 - Survival	15
▫ BOVP15MDPR3 - Practical Assignment	4
▫ LSV15RAP - Report	1
▫ BOVP15MDBAN - Bioanalysis	3
▫ BOVP6ANF3 - Anatomy / Physiology 3	3
▫ BOVP15MDCHM3 - Chemistry 3	3
▫ LSV7STB1C - Academic Counselling Term 3	1
▢ Theme 4 - Good Bacteria, Bad Bacteria	15
▫ BOVP15MDPR4 - Practical Assignment	4
▫ BOVP15MDTUTOR4 - Tutorial theme 4	1
▫ BOVP17MDVPO - Report of Practical Assignment	1
▫ LSV16PRE - Presentation	1
▫ BOVP4STA2 - Statistics 2	2
▫ BOVP6ANF4 - Anatomy / Physiology 4	3
▫ BOVP4WIS2 - Mathematics 2	2
▫ LSV7STB1D - Academic Counselling Term 4	1
Year 2	60
▢ Theme 5 - Medical Microbiology	15
▫ BOVH7THM5 - Practical Assignment theme 5	6
▫ BOVH7MBF - Microbial Physiology	3
▫ BOVH7MEM - Medical Microbiology	3
▫ BOVH7MOD1 - Molecular Diagnostics 1	3
▢ Theme 6 - Medical Genetics	15
▫ BOVH7THM6 - Practical Assignment theme 6	6
▫ BOVH7MEG - Medical Genetics	3
▫ BOVH8BMT - Biomethods	2
▫ BOVH7STA3 - Statistics 3	3
▫ LSVH7STB2A - Academic Counselling Year 2 - Part 1	1
▢ Theme 7 - Clinical Chemistry / Hematology	15
▫ BOVH16MDPR7 - Practical Assignment theme 7	5
▫ BOVH7KCH - Clinical Chemistry	3
▫ BOVH7MDI - Medical Immunology	3
▫ BOVH7HTL - Hematology	3
▫ LSVH16SLBINT - Academic Counselling / Internationalisation	1
▢ Theme 8 - Pathology / Cytology	15
▫ BOVH7THM8 - Practical Assignment theme 8	5
▫ BOVH7PAT - Pathology	3
▫ BOVH7CYT - Cytology	3
▫ BOVH7MOD2 - Molecular Diagnostics 2	3
▫ LSVH7STB2B - Academic Counselling Year 2 - Part 2	1
Year 3	60
▢ Theme 9 - Medical Diagnostics	15
▫ BOVH3THD09 - Project 1	7
▫ BOVH3HKI - Hematology & Clinical Immunology	3
▫ BOVH8PAT2 - Pathology 2	2
▫ BOVH15MDVSL - Report Writing	2
▫ LSVH7STB3A - Academic Counselling Year 3 - Part 1	1
▢ Theme 10 - Medical Diagnostics 2	15
▫ BOVH3THD10 - Project 2	7
▫ BOVH3BIN2 - Bio-Informatics 2	3
▫ BOVH16MEG2 - Medical Genetics 2	3
▫ BOVH3O&M - Organisation & Management	2
▫ Electives	30
Year 4	60
▢ Practical placement	30
▫ BOVH19MDSTAGE - Practical Learning Period	28
▫ LSVH15KWALZ - Quality Assurance	1
▫ LSVH15ARBO - Health & Safety	1
▢ Final Project	30
▫ BOVH15MDAFST - Final Project	30

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