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*

selection of following courses	
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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