Major Health & Life Science
This Presentation

› Topics of this Major
› Structure of this Major
› Methods & Staff

› Who should choose this Major?

› After your Bachelor: Master program
Human and medical biology
Human and medical biology

Legend
- Hydrogen
- Carbon
- Oxygen
- Sulfur
- Coenzyme Q
- Coenzyme A
- Adenosine triphosphate
- Glutathione disulfide
- NADH (Nicotinamide adenine dinucleotide)
- Pyruvate dehydrogenase
- Enzyme

Citric acid cycle
- Pyruvate
- Acetyl-CoA
- Citrate
- Oxaloacetate
- Malate
- Fumarate
- Succinate
- Succinyl-CoA
- Alpha-ketoglutarate
- D-isocitrate
- cis-Aconitate
- Aconitase
- Malate dehydrogenase
- Citrate synthase
- Pyruvate dehydrogenase
- CoA
- Carbon dioxide
- Hydrogen ions
- Adenosine triphosphate
- Glutathione disulfide
- NADH (Nicotinamide adenine dinucleotide)
Human and medical biology
From DNA to Humans and their Health
From DNA to Humans and their Health, to Populations and their Societies & Cultures
Year 1

› 2 elective courses
   • Introduction to Health & Disease
   • Introduction to Cell Biology (prior knowledge: biology at secondary school level)
Year 2

4 mandatory courses
  - Cell biology
  - Biochemistry
  - Physiology (and Anatomy)
  - Immunology/Microbiology/...
Year 3

› Elective courses: choose 2
  (topics still flexible)
  • Global health
  • Movement
  • Ageing
  • Precision Medicine
Educational Methods in this Major

› Small Group Lectures

› Working Groups (problem based; putting content into perspective)

› Journal Club (reading and discussing scientific papers)

› Laboratory practicals

› Self Study
Possible Masters

> [www.rug.nl/masters/health-life-sciences](http://www.rug.nl/masters/health-life-sciences)
  - Biomedical Sciences
  - Molecular Biology and Biotechnology
  - Medical Pharmaceutical Sciences
  - Human Movement Sciences
  - Behavioural and Cognitive Neurosciences
  - .........
Preconditions for RUG Biomedical Research Masters

› Conditional admittance for both RUG and non-RUG students
› Depends on master
  • Assessment of bachelor details
  • Interviews
  • Grades
  • Deficiency repair program
  • Other
› Choose content of your bachelor thesis and extra ECs wisely!
A Master in Medicine?

› Passed Physics & Chemistry exam in secondary school
› Special entry test (Dutch)
› 1 yr Pre-Master Medicine (max 35 students)