

Faculty of Medicine and Health Sciences  
Master of Science in Biomedical Sciences

Language of instruction: English  
Programme version 7

## 1 General Courses 27 credits

| Nr | Course                                                                                                                                                                  | CRDT | Ref | MT1 | Session | Study |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D013626 Laboratory Quality Management and Assurance<br><i>Peter Van Eenoo -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>             | 3    |     | 1   | A:1     | 75    |
| 2  | D012176 Bio-Ethics in Experimental Medicine<br><i>Katya De Groote -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>        | 3    |     | 1   | A:1     | 75    |
| 3  | A003107 Advanced Academic English<br><i>Geert Jacobs -- Department of Linguistics</i><br><a href="#">Indicative price: € 0</a>                                          | 3    | UKV | 1   | A:1     | 90    |
| 4  | D012528 Cell and Gene Therapy<br><i>Stijn De Munter -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>                               | 4    |     | 1   | A:1     | 120   |
| 5  | D013628 Large Scale Analysis of Biomedical Data<br><i>Katleen De Preter -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>         | 4    |     | 1   | A:1     | 100   |
| 6  | D012527 Good Clinical Practice - Clinical studies<br><i>Sylvie Rottey -- Department off Basic and Applied Medical Sciences</i><br><a href="#">Indicative price: € 0</a> | 3    |     | 1   | A:2     | 90    |
| 7  | D013627 Research Proposal Biomedical Sciences<br><i>Philip Meuleman -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>               | 4    |     | 1   | A:2     | 120   |
| 8  | D012514 Medical Seminars<br><i>Tania Maes -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>                                | 3    |     | 2   | A:J     | 75    |

## 2 Majors 26 credits

### 2.1 Major Nutrition and Metabolism 26 credits

| Nr | Course                                                                                                                                                           | CRDT | Ref | MT1 | Session | Study |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012497 Methodology of Nutritional Research<br><i>Bruno Lapauw -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>    | 5    |     | 1   | A:1     | 150   |
| 2  | D012498 Human Nutrition Science and Pathology<br><i>Sander Lefere -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a> | 6    |     | 1   | A:2     | 180   |
| 3  | D012496 Method and Device Validation<br><i>Carolien Bonroy -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>                     | 3    |     | 1   | A:2     | 75    |
| 4  | D012504 Public Health Nutrition<br><i>Stefaan De Henauf -- Department of Public Health and Primary Care</i><br><a href="#">Indicative price: unknown</a>         | 3    |     | 1   | A:2     | 90    |
| 5  | D012495 Medical Laboratory Diagnostics<br><i>Peter Van Eenoo -- Department of Diagnostic Sciences</i>                                                            | 3    |     | 1   | A:2     | 90    |

[Indicative price: € 50](#)

|                                                                             |         |                                         |   |   |     |     |
|-----------------------------------------------------------------------------|---------|-----------------------------------------|---|---|-----|-----|
| 6                                                                           | D001877 | Food Microbiology and Food Preservation | 6 | 2 | A:1 | 180 |
| <i>Andreja Rajkovic -- Department of Food Technology, Safety and Health</i> |         |                                         |   |   |     |     |
| <a href="#">Indicative price: € 15</a>                                      |         |                                         |   |   |     |     |

## 2.2 Major Neurosciences

26 credits

| Nr | Course                                                                                                                                                                           | CRDT | Ref | MT1 | Session  | Study |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|----------|-------|
| 1  | D012509 Structural Aspects of the Central Nervous System<br><i>Wim Ceelen -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a>               | 5    |     | 1   | A:1      | 150   |
| 2  | D012538 Functional Aspects of the Central Nervous System<br><i>Alain Labro -- Department off Basic and Applied Medical Sciences</i><br><a href="#">Indicative price: unknown</a> | 5    |     | 1   | A:2      | 150   |
| 3  | D012511 Neurobiology<br><i>Evelien Carrette -- Department of Head and Skin</i><br><a href="#">Indicative price: € 5</a>                                                          | 5    |     | 1   | A:2      | 150   |
| 4  | D012512 Neurogenetics<br><i>Bart Dermaut -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                                                 | 5    |     | 1   | A:2      | 150   |
| 5  | D012510 Clinical Neurology<br><i>Kristl Vonck -- Department of Head and Skin</i><br><a href="#">Indicative price: unknown</a>                                                    | 6    |     | 2   | A:1, B:2 | 150   |

## 2.3 Major Tissue Engineering and Regenerative Medicine

26 credits

| Nr | Course                                                                                                                                                           | CRDT | Ref | MT1 | Session | Study |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012548 Degeneration and Senescence<br><i>Peter Vandenabeele -- Department of Chemistry</i><br><a href="#">Indicative price: unknown</a>                         | 5    |     | 1   | A:1     | 150   |
| 2  | D012549 Stem Cell Biology and Reprogramming<br><i>BJORN HEINDRYCKX -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>  | 4    |     | 1   | A:2     | 120   |
| 3  | D012550 Clinical and Experimental Embryology<br><i>BJORN HEINDRYCKX -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a> | 3    |     | 1   | A:2     | 90    |
| 4  | D012551 Biomaterials and Biocompatibility<br><i>Ruslan Dmitriev -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>     | 8    |     | 1   | A:2     | 240   |
| 5  | D001923 Tissue Engineering<br><i>Ruslan Dmitriev -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                    | 6    |     | 2   | A:1     | 180   |

## 2.4 Major Radiation Sciences

26 credits

| Nr | Course                                                                                                                                                                  | CRDT | Ref | MT1 | Session | Study |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012508 Radiation Dosimetry and Radioprotection<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>         | 5    |     | 1   | A:1     | 150   |
| 2  | D012506 Radiochemistry and Radiopharmaceuticals<br><i>Filip De Vos -- Department of Pharmaceutical Analysis</i><br><a href="#">Indicative price: unknown</a>            | 4    |     | 1   | A:2     | 120   |
| 3  | D012507 Radiotherapy: Technology and Patient Dosimetry<br><i>Werner De Gerssem -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a> | 6    |     | 1   | A:2     | 150   |
| 4  | D012505 Medical Imaging<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                                 | 5    |     | 1   | A:2     | 150   |
| 5  | D012563 Radiobiology and Radiopathology<br><i>Ans Baeyens -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a>                      | 6    |     | 2   | A:1     | 180   |

## 2.5 Major Medical Genetics

26 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--------|------|-----|-----|---------|-------|
|----|--------|------|-----|-----|---------|-------|

|   |         |                                                                                                                                                           |   |   |     |     |
|---|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|-----|
| 1 | D012701 | Advanced Human Genetics<br><i>Sofie Symoens -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                       | 6 | 1 | A:2 | 180 |
| 2 | D012490 | Cancer Genetics<br><i>Kaat Durinck -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                                    | 5 | 1 | A:2 | 150 |
| 3 | D012547 | Massively Parallel Sequencing Data-analysis<br><i>Pieter Mestdagh -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 3 | 1 | A:2 | 75  |
| 4 | D000652 | Developmental Genetics and Gene Regulation<br><i>Elfride De Baere -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 6 | 1 | A:1 | 180 |
| 5 | D000852 | Genetical Diagnostics<br><i>Kathleen Claes -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                        | 6 | 2 | A:1 | 180 |

## 2.6 Major Immunity and Infection

26 credits

| Nr | Course                                                                                                                                     | CRDT | Ref | MT1 | Session | Study |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012529 Immunopathology<br><i>Hamida Hammad -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a> | 5    |     | 1   | A:1     | 150   |
| 2  | D012531 Molecular Immunology<br><i>Tom Taghon -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>            | 5    |     | 1   | A:2     | 150   |
| 3  | D012533 Molecular Virology<br><i>Philip Meuleman -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>     | 5    |     | 1   | A:2     | 150   |
| 4  | D012530 Molecular Bacteriology<br><i>Piet Cools -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>          | 5    |     | 1   | A:2     | 150   |
| 5  | D013094 Vaccinology<br><i>Isabel Leroux-Roels -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>        | 6    |     | 2   | A:1     | 180   |

## 2.7 Major Systems Biology

26 credits

| Nr | Course                                                                                                                                                                     | CRDT | Ref | MT1 | Session | Study |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012555 Genomics, Proteomics and Metabolomics<br><i>Kris Gevaert -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 10</a>                      | 6    |     | 1   | A:1     | 180   |
| 2  | D012702 Advanced Imaging and Image Analysis<br><i>Marleen Van Troys -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                    | 5    |     | 1   | A:2     | 150   |
| 3  | D012554 Machine Learning Methods for Biomedical Data<br><i>Ralf Gabriels -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>               | 5    |     | 1   | A:2     | 150   |
| 4  | D012539 Protein Interaction Networks and Medical Applications<br><i>Sven Eyckerman -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 4    |     | 1   | A:2     | 120   |
| 5  | D012184 Systems Biology<br><i>Igor Fijalkowski -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 6</a>                                         | 6    |     | 2   | A:1     | 150   |

## 2.8 Major Cancer

26 credits

| Nr | Course                                                                                                                                                    | CRDT | Ref | MT1 | Session | Study |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D012491 Proliferation and Survival<br><i>Panagiotis Ntziachristos -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 5    |     | 1   | A:1     | 150   |
| 2  | D012492 Communication and Metastasis<br><i>Olivier De Wever -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>  | 5    |     | 1   | A:2     | 150   |

|   |         |                                                                                                                                                       |   |   |     |     |
|---|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|-----|
| 3 | D012493 | Clinical Aspects of Cancer<br><i>Wim Ceelen -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>              | 5 | 1 | A:2 | 150 |
| 4 | D012490 | Cancer Genetics<br><i>Kaat Durinck -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                                | 5 | 1 | A:2 | 150 |
| 5 | D012494 | Precision Medicine in Cancer<br><i>Karim Vermaelen -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: unknown</a> | 6 | 2 | A:1 | 180 |

### 3 Elective Courses

Subscribe to 31 credit units from no less than 2 and no more than 7 modules from the following list. Subject to approval by the faculty.  
Recommended: Students take 8 to 12 ECTS in the first master's year and 19 to 23 ECTS in the second year.

#### 3.1 Elective Course List First Master's Year

| Nr | Course                                                                                                                                                                                                  | CRDT | Ref | MT1 | Session | Study |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | D013531 Innovation Management<br><i>Jan Demolder -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                                                                | 5    |     | 1   | A:2     | 150   |
| 2  | D012577 Pharmacology [nl]<br><i>Lindsey Devisscher -- Department off Basic and Applied Medical Sciences</i><br><a href="#">Indicative price: € 0</a>                                                    | 7    |     | 1   | A:2     | 210   |
| 3  | D013530 Laboratory Animal Science<br><i>Katleen Hermans -- Department of Pathobiology, Pharmacology and Zoological Medicine</i><br><a href="#">Indicative price: € 0</a>                                | 6    |     | 1   | A:1     | 180   |
| 4  | H002476 Powerful Learning Environments [nl]<br><i>Bram De Wever -- Department of Educational Studies</i><br><a href="#">Indicative price: € 50</a>                                                      | 6    |     | 1   | A:1     | 180   |
| 5  | C004114 Mathematics: Advanced Techniques [nl]<br><i>Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics</i><br><a href="#">Indicative price: € 10</a>                        | 6    |     | 1   | A:2     | 180   |
| 6  | C004223 Nuclear Physics<br><i>Natalie Jachowicz -- Department of Physics and Astronomy</i><br><a href="#">Indicative price: € 45</a>                                                                    | 4    |     | 1   | A:2     | 120   |
| 7  | A005503 Context and Nuance. A Critical Reflection on Current Topics [nl]<br><i>Katrijn Maryns -- Department of Translation, Interpreting and Communication</i><br><a href="#">Indicative price: € 0</a> | 6    | UKV | 1   | A:1     | 180   |
| 8  | D013207 Economic Perspectives on Health<br><i>Lieven Annemans -- Department of Public Health and Primary Care</i><br><a href="#">Indicative price: € 29</a>                                             | 3    |     | 1   | A:1     | 90    |
| 9  | J000454 Cutting Edge Technologies for Drug Delivery - Nanomedicines<br><i>Stefaan De Smedt -- Department of Pharmaceutics</i><br><a href="#">Indicative price: € 0</a>                                  | 3    |     | 1   | A:2     | 90    |

#### 3.2 Biomedical Researcher in Industry and Management

| Nr | Course                                                                                                                                                                   | CRDT | Ref | MT1 | Session | Study |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | C003670 Biomolecular Production Methods<br><i>Nico Callewaert -- Department of Biochemistry, Physiology and Microbiology</i><br><a href="#">Indicative price: € 5</a>    | 4    |     | 2   | A:1     | 110   |
| 2  | D013207 Economic Perspectives on Health<br><i>Lieven Annemans -- Department of Public Health and Primary Care</i><br><a href="#">Indicative price: € 29</a>              | 3    |     | 2   | A:1     | 90    |
| 3  | D013530 Laboratory Animal Science<br><i>Katleen Hermans -- Department of Pathobiology, Pharmacology and Zoological Medicine</i><br><a href="#">Indicative price: € 0</a> | 6    |     | 2   | A:1     | 180   |
| 4  | J000427 Special Nutrition [nl]<br><i>Sarah De Saeger -- Department of Bio-analysis</i><br><a href="#">Indicative price: € 0</a>                                          | 3    |     | 2   | A:1     | 90    |
| 5  | D012577 Pharmacology [nl]<br><i>Lindsey Devisscher -- Department off Basic and Applied Medical Sciences</i>                                                              | 7    |     | 2   | A:2     | 210   |

|    |         |                                                                                                                                                        |   |   |     |     |
|----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|-----|
|    |         | <a href="#">Indicative price: € 0</a>                                                                                                                  |   |   |     |     |
| 6  | J000445 | Regulatory Affairs Health Products<br><i>Evelien Wynendaele -- Department of Pharmaceutical Analysis</i><br><a href="#">Indicative price: € 0</a>      | 3 | 2 | A:J | 90  |
| 7  | E092930 | Translational Neuroscience<br><i>Christian Vanhove -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 0</a>   | 3 | 2 | A:2 | 90  |
| 8  | J000453 | Pharmaceutical Management Skills [nl]<br><i>Evelien Wynendaele -- Department of Pharmaceutical Analysis</i><br><a href="#">Indicative price: € 0</a>   | 3 | 2 | A:2 | 90  |
| 9  | D013531 | Innovation Management<br><i>Jan Demolder -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                       | 5 | 2 | A:2 | 150 |
| 10 | J000443 | Pharmacoeconomics [nl]<br><i>Barbara Claus -- Department of Pharmaceutical Analysis</i><br><a href="#">Indicative price: € 0</a>                       | 3 | 2 | A:2 | 90  |
| 11 | F000707 | Project Management<br><i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i><br><a href="#">Indicative price: € 75</a> | 6 | 2 | B:2 | 180 |

### 3.3 Biomedical Researcher in a Changing Society

| Nr | Course                                                                                                                                                                                                  | CRDT | Ref | MT1 | Session | Study |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | E092930 Translational Neuroscience<br><i>Christian Vanhove -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 0</a>                                            | 3    |     | 2   | A:2     | 90    |
| 2  | H002000 Modelling of Cognitive Processes<br><i>Tom Verguts -- Department of Experimental Psychology</i><br><a href="#">Indicative price: € 0</a>                                                        | 5    |     | 2   | A:1     | 150   |
| 3  | H001992 Neurobiology of Affective Disorders<br><i>Gilles Pourtois -- Department of Experimental Clinical and Health Psychology</i><br><a href="#">Indicative price: € 0</a>                             | 4    |     | 2   | A:1     | 120   |
| 4  | B000622 Medical Criminalistics [nl]<br><i>Evy De Boosere -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>                                                          | 4    |     | 2   | A:2     | 120   |
| 5  | B001499 Forensic Psychology [nl]<br><i>Lize Verbeke -- Department of Developmental, Personality and Social Psychology</i><br><a href="#">Indicative price: € 50</a>                                     | 4    |     | 2   | A:2     | 120   |
| 6  | H001977 Coaching and Diversity [nl]<br><i>Elisabeth De Schauwer -- Department of Special Education</i><br><a href="#">Indicative price: € 0</a>                                                         | 3    | UKV | 2   | A:J     | 90    |
| 7  | A005503 Context and Nuance. A Critical Reflection on Current Topics [nl]<br><i>Katrijn Maryns -- Department of Translation, Interpreting and Communication</i><br><a href="#">Indicative price: € 0</a> | 6    | UKV | 2   | A:1     | 180   |
| 8  | K001382 Strategic Communication<br><i>Veroline Cauberghe -- Department of Communication Sciences</i><br><a href="#">Indicative price: € 45</a>                                                          | 5    |     | 2   |         | 150   |
| 9  | B001497 Forensic Psychiatry [nl]<br><i>Kurt Audenaert -- Department of Head and Skin</i><br><a href="#">Indicative price: € 0</a>                                                                       | 4    |     | 2   | B:1     | 120   |
| 10 | B001637 Drug Phenomena [nl]<br><i>Charlotte Colman -- Department of Criminology, Criminal Law and Social Law</i><br><a href="#">Indicative price: € 15</a>                                              | 5    |     | 2   | A:1     | 150   |
| 11 | H002429 Neuropsychology [nl]<br><i>Wim Fias -- Department of Experimental Psychology</i><br><a href="#">Indicative price: € 75</a>                                                                      | 5    |     | 2   | A:2     | 150   |
| 12 | H002668 Introduction Industrial Psychology [nl]<br><i>Bart Wille -- Department of Developmental, Personality and Social Psychology</i><br><a href="#">Indicative price: € 55</a>                        | 4    |     | 2   | A:1     | 120   |

### 3.4 Biomedical Exploration: Major Courses

| Nr               | Course | CRDT | Ref | MT1 | Session | Study |
|------------------|--------|------|-----|-----|---------|-------|
| 11-08-2026 21:09 |        |      |     |     |         |       |

|    |         |                                                                                                                                                                          |   |     |     |
|----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|
| 1  | D012498 | Human Nutrition Science and Pathology<br><i>Sander Lefere -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>                 | 6 | A:2 | 180 |
| 2  | D012496 | Method and Device Validation<br><i>Carolien Bonroy -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>                                     | 3 | A:2 | 75  |
| 3  | D012504 | Public Health Nutrition<br><i>Stefaan De Henauw -- Department of Public Health and Primary Care</i><br><a href="#">Indicative price: unknown</a>                         | 3 | A:2 | 90  |
| 4  | D012495 | Medical Laboratory Diagnostics<br><i>Peter Van Eenoo -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 50</a>                                  | 3 | A:2 | 90  |
| 5  | D012497 | Methodology of Nutritional Research<br><i>Bruno Lapauw -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>                    | 5 | A:1 | 150 |
| 6  | D012509 | Structural Aspects of the Central Nervous System<br><i>Wim Ceelen -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a>               | 5 | A:1 | 150 |
| 7  | D012538 | Functional Aspects of the Central Nervous System<br><i>Alain Labro -- Department off Basic and Applied Medical Sciences</i><br><a href="#">Indicative price: unknown</a> | 5 | A:2 | 150 |
| 8  | D012511 | Neurobiology<br><i>Evelien Carrette -- Department of Head and Skin</i><br><a href="#">Indicative price: € 5</a>                                                          | 5 | A:2 | 150 |
| 9  | D012512 | Neurogenetics<br><i>Bart Dermaut -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                                                 | 5 | A:2 | 150 |
| 10 | D012549 | Stem Cell Biology and Reprogramming<br><i>BJORN HEINDRYCKX -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                  | 4 | A:2 | 120 |
| 11 | D012550 | Clinical and Experimental Embryology<br><i>BJORN HEINDRYCKX -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                 | 3 | A:2 | 90  |
| 12 | D012548 | Degeneration and Senescence<br><i>Peter Vandenabeele -- Department of Chemistry</i><br><a href="#">Indicative price: unknown</a>                                         | 5 | A:1 | 150 |
| 13 | D012551 | Biomaterials and Biocompatibility<br><i>Ruslan Dmitriev -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                     | 8 | A:2 | 240 |
| 14 | D012506 | Radiochemistry and Radiopharmaceuticals<br><i>Filip De Vos -- Department of Pharmaceutical Analysis</i><br><a href="#">Indicative price: unknown</a>                     | 4 | A:2 | 120 |
| 15 | D012508 | Radiation Dosimetry and Radioprotection<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                  | 5 | A:1 | 150 |
| 16 | D012507 | Radiotherapy: Technology and Patient Dosimetry<br><i>Werner De Gersem -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a>           | 6 | A:2 | 150 |
| 17 | D012505 | Medical Imaging<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                                          | 5 | A:2 | 150 |
| 18 | D012490 | Cancer Genetics<br><i>Kaat Durinck -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                                                   | 5 | A:2 | 150 |
| 19 | D012547 | Massively Parallel Sequencing Data-analysis<br><i>Pieter Mestdagh -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                | 3 | A:2 | 75  |
| 20 | D000652 | Developmental Genetics and Gene Regulation<br><i>Elfride De Baere -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                | 6 | A:1 | 180 |

|    |         |                                                                                                                                                                    |   |     |     |
|----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|
| 21 | D012701 | Advanced Human Genetics<br><i>Sofie Symoens -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                                | 6 | A:2 | 180 |
| 22 | D012531 | Molecular Immunology<br><i>Tom Taghon -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>                                            | 5 | A:2 | 150 |
| 23 | D012533 | Molecular Virology<br><i>Philip Meuleman -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>                                     | 5 | A:2 | 150 |
| 24 | D012530 | Molecular Bacteriology<br><i>Piet Cools -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: € 0</a>                                          | 5 | A:2 | 150 |
| 25 | D012529 | Immunopathology<br><i>Hamida Hammad -- Department of Internal Medicine and Pediatrics</i><br><a href="#">Indicative price: € 0</a>                                 | 5 | A:1 | 150 |
| 26 | D012702 | Advanced Imaging and Image Analysis<br><i>Marleen Van Troys -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                    | 5 | A:2 | 150 |
| 27 | D012554 | Machine Learning Methods for Biomedical Data<br><i>Ralf Gabriels -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>               | 5 | A:2 | 150 |
| 28 | D012539 | Protein Interaction Networks and Medical Applications<br><i>Sven Eyckerman -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 4 | A:2 | 120 |
| 29 | D012555 | Genomics, Proteomics and Metabolomics<br><i>Kris Gevaert -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 10</a>                      | 6 | A:1 | 180 |
| 30 | D012491 | Proliferation and Survival<br><i>Panagiotis Ntziachristos -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                  | 5 | A:1 | 150 |
| 31 | D012492 | Communication and Metastasis<br><i>Olivier De Wever -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                   | 5 | A:2 | 150 |
| 32 | D012493 | Clinical Aspects of Cancer<br><i>Wim Ceelen -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                           | 5 | A:2 | 150 |
| 33 | D012490 | Cancer Genetics<br><i>Kaat Durinck -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: € 0</a>                                             | 5 | A:2 | 150 |
| 34 | D001877 | Food Microbiology and Food Preservation<br><i>Andreja Rajkovic -- Department of Food Technology, Safety and Health</i><br><a href="#">Indicative price: € 15</a>   | 6 | A:1 | 180 |
| 35 | D012510 | Clinical Neurology<br><i>Kristl Vonck -- Department of Head and Skin</i><br><a href="#">Indicative price: unknown</a>                                              | 6 | A:1 | 150 |
| 36 | D001923 | Tissue Engineering<br><i>Ruslan Dmitriev -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>                              | 6 | A:1 | 180 |
| 37 | D012563 | Radiobiology and Radiopathology<br><i>Ans Baeyens -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: € 0</a>                         | 6 | A:1 | 180 |
| 38 | D013094 | Vaccinology<br><i>Isabel Leroux-Roels -- Department of Diagnostic Sciences</i><br><a href="#">Indicative price: unknown</a>                                        | 6 | A:1 | 180 |

### 3.5 Preparing for EduMa

| Nr | Course                                                                                                                                             | CRDT | Ref | MT1 | Session | Study |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | H002476 Powerful Learning Environments [nI]<br><i>Bram De Wever -- Department of Educational Studies</i><br><a href="#">Indicative price: € 50</a> | 6    |     |     | A:1     | 180   |

|   |         |                                                                                                                                                                               |   |  |     |     |
|---|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|-----|-----|
| 2 | H002478 | The Student: Development and Motivation [nl]<br><i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i><br><a href="#">Indicative price: € 75</a> | 6 |  | A:1 | 180 |
| 3 | H002477 | The Teacher within Class, School and Society [nl]<br><i>Melissa Tuytens -- Department of Educational Studies</i><br><a href="#">Indicative price: € 55</a>                    | 6 |  | A:2 | 180 |
| 4 | H002587 | Teaching Methodology: Health Sciences I [nl]<br><i>Leen Haerens -- Department of Movement and Sports Sciences</i><br><a href="#">Indicative price: € 0</a>                    | 9 |  | A:1 | 270 |

### 3.6 Medical Radiation Physics

| Nr | Course  | CRDT                                                                                                                                                                     | Ref | MT1 | Session | Study |
|----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|---------|-------|
| 1  | D002433 | Detection and Measurement of Ionizing Radiation [nl]<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>     | 3   | 2   | A:1     | 90    |
| 2  | C004649 | Scientific Computing for Physicists<br><i>Jonathan Leliaert -- Department of Solid State Sciences</i><br><a href="#">Indicative price: € 120</a>                         | 5   | 2   | A:1     | 150   |
| 3  | C004114 | Mathematics: Advanced Techniques [nl]<br><i>Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics</i><br><a href="#">Indicative price: € 10</a> | 6   | 2   | A:2     | 180   |
| 4  | C004223 | Nuclear Physics<br><i>Natalie Jachowicz -- Department of Physics and Astronomy</i><br><a href="#">Indicative price: € 45</a>                                             | 4   | 2   | A:2     | 120   |
| 5  | D013254 | Radiation Protection, Safety and Legislation [nl]<br><i>Klaus Bacher -- Department of Human Structure and Repair</i><br><a href="#">Indicative price: unknown</a>        | 5   | 2   | A:J     | 150   |

### 3.7 Elective Courses: Free Choice

6 credits

Subscribe to no more than 6 credit units from the study programmes of Ghent University, including the Ghent University Elective Courses. Subject to approval by the faculty.  
The maximum number of 6 ECTS credits for elective courses that can be freely chosen may be exceeded to a maximum of 12 ECTS credits, only for elective courses in support of the master's thesis or major. Moreover, the request to take more than 6 SP of free electives needs to be motivated on behalf of the curriculum committee, who will give its final approval, for all the included free electives within the package of maximal 12 SP.

[Ghent University Elective Courses](#)

## 4 Work Placement 6 credits

| Nr | Course  | CRDT                                                                                                                                            | Ref | MT1 | Session | Study |
|----|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|---------|-------|
| 1  | D013637 | Major Internship Biomedical Sciences<br><i>Kaat Durinck -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a> | 6   | 1   | A:J     | 180   |

## 5 Master's Dissertation 30 credits

| Nr | Course  | CRDT                                                               | Ref | MT1 | Session | Study |
|----|---------|--------------------------------------------------------------------|-----|-----|---------|-------|
| 1  | D012185 | Master's Dissertation<br><a href="#">Indicative price: unknown</a> | 30  | 2   | A:J     | 900   |

### Programme related study costs

None

## Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the course name, using the following ISO codes:

|               |             |             |               |                |                      |             |
|---------------|-------------|-------------|---------------|----------------|----------------------|-------------|
| bg: Bulgarian | de: German  | es: Spanish | ja: Japanese  | pl: Polish     | sh: Croatian/Serbian | zh: Chinese |
| cs: Czech     | el: Greek   | fr: French  | nl: Dutch     | pt: Portuguese | sl: Slovene          |             |
| da: Danish    | en: English | it: Italian | no: Norwegian | ru: Russian    | sv: Swedish          |             |

## Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course is not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

|                 |                                 |                                 |                                 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|
| a: bi-annually  | c: annually, from 2027-2028     | f: annually, from 2028-2029     | i: annually, from 2029-2030     |
| b: tri-annually | d: bi-annually, from 2027-2028  | g: bi-annually, from 2028-2029  | j: bi-annually, from 2029-2030  |
|                 | e: tri-annually, from 2027-2028 | h: tri-annually, from 2028-2029 | k: tri-annually, from 2029-2030 |

## Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.