## Year Schedule MSc Biomolecular Sciences 2020-2021

### Specialization Molecular Cell Biology

#### Year 1

**Professionalism in Biomol. Science year 1**
- **Period 1**: Professionalism in Biomol. Science year 1 (0 ec) AM_1273
- **Period 2**: Protein Science (6 ec) AM_470145
  - Genomes and gene expression (6 ec) AM_470614
  - Cells Structures and Functions (6 ec) AM_470615
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
- **Period 3**: Scientific Writing in English (3 ec) AM_1156
  - The Human Microbiome in Health & Disease (3 ec) AM_1021
  - Biophotronics (6 ec) AM_1213
  - Structural Bioinformatics (6 ec) X_405019
  - Biobusiness Course (3 ec) M_OBIOBUS10
- **Period 4**: Scientific Writing in English (3 ec) AM_1156
  - Internship in Molecular Cell Biology (30 ec) AM_471128
  - Advanced Biophysics (6 ec) X_422583
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120
- **Period 5**: Internship II Molecular Cell Biology (30 ec) AM_471129
  - The Human Microbiome in Health & Disease (6 ec) AM_1021
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
  - Biophotonics (6 ec) AM_1213
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120
- **Period 6**: Internship III Molecular Cell Biology (30 ec) AM_471130
  - The Human Microbiome in Health & Disease (6 ec) AM_1021
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
  - Biophotonics (6 ec) AM_1213
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120

#### Year 2

**Professionalism in Biomol. Science year 2**
- **Period 1**: Thesis Based on Literature Study (9 ec) AM_471153
- **Period 2**: Fundamentals of Bioinformatics (6 ec) X_405052
  - Introduction to Systems Biology (6 ec) X_428565
  - Cell Structures and Functions (6 ec) AM_470615
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
- **Period 3**: Scientific Writing in English (3 ec) AM_1156
  - The Human Microbiome in Health & Disease (3 ec) AM_1021
  - Biophotronics (6 ec) AM_1213
  - Structural Bioinformatics (6 ec) X_405019
  - Biobusiness Course (3 ec) M_OBIOBUS10
- **Period 4**: Scientific Writing in English (3 ec) AM_1156
  - Internship II Molecular Cell Biology (30 ec) AM_471128
  - Advanced Biophysics (6 ec) X_422583
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120
- **Period 5**: Internship III Molecular Cell Biology (30 ec) AM_471130
  - The Human Microbiome in Health & Disease (6 ec) AM_1021
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
  - Biophotonics (6 ec) AM_1213
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120
- **Period 6**: Internship IV Molecular Cell Biology (30 ec) AM_471131
  - The Human Microbiome in Health & Disease (6 ec) AM_1021
  - Developmental Biology (6 ec) AMU_0030
  - Drug-Induced Stress and Cellular Responses (6 ec) X_432536
  - Biophotonics (6 ec) AM_1213
  - Biomolecular Screening (6 ec) AM_1260
  - Structural Bioinformatics (6 ec) X_405019
  - Caput Protein Structure as Mol. B. of D. (6 ec) AM_470120

### Specializations

- **Caput Epigenetics (6 ec) AM_470606**
- **Caput RNA Biology (6 ec) AM_470604**
- **Caput Cellular Protein Trafficking (6 ec) AM_470605**
- **Caput Structural Biology (6 ec) AM_470607**

### Examinations

- **Examination week**: Period 1, Period 3, Period 5

### Electives

- **Elective (6 ec required)**: AM_470604, AM_470605, AM_470607
- **Elective (6 ec required)**: AM_1260, X_405092, X_418156, X_432536, AM_1021, AM_471128, AM_471129, AM_471130, AM_471131

### Other Courses

- **Biomolecular Screening (6 ec) AM_1260**
- **Bioinformatics for Translational Medicine (6 ec) X_405092**
- **Developmental Biology (6 ec) AMU_0030**
- **Drug-induced Stress and Cellular Response (6 ec) X_432536**
- **Fundamentals of Bioinformatics (6 ec) X_405052**
- **Genomes and gene expression (6 ec) AM_470614**
- **Internship II Molecular Cell Biology (30 ec) AM_471128**
- **Internship III Molecular Cell Biology (30 ec) AM_471129**
- **Internship IV Molecular Cell Biology (30 ec) AM_471131**
- **Professionalism in Biomol. Science year 1 (0 ec) AM_1273**
- **Professionalism in Biomol. Science year 2 (0 ec) AM_1274**
- **Resits**: AM_471153, X_405019, X_405052, X_418156, X_432535, X_405092, X_418156, X_432536, AM_1021