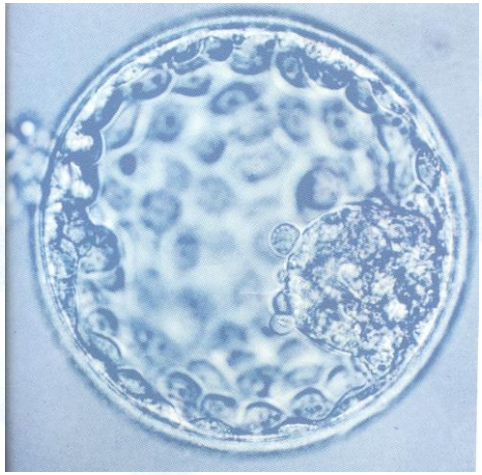
SCIENTIFIC COURSES

OBLIGATORY COURSES	ECTS	Lectures	Practice
Developmental Genetics	5	30	30
Hormonal control of reproductive function in mammals	5	30	30
Microscopic anatomy of organs	4	30	30
Cell cultivation	4	15	30
Cell bioenergy	4	15	30
Biology of mammalian development	5	30	30
Infertility in humans and assisted reproduction	5	30	30
Embryobiotechnology	4	15	30
Molecular Embryology	4	15	30
Stem cells	4	30	30
Pre-diploma practicum	15	-	90

ELECTIVE COURSES	ECTS	Lectures	Practice
Control mechanisms of cell proliferation	4	30	30
Cell signaling	4	30	30
Nuclear domains	4	15	30
Neural cell organization and functions	4	30	30
Epigenetic mechanisms of mammalian development	4	30	30
Animal models of embryonic development	4	15	30
Role of apoptosis in norm and pathology	4	30	15
Cellular and molecular mechanisms of immune response	4	30	15



For contacts:
Academic affairs of the Faculty of Biology
Tel. (+359 2) 86 68 712

Head of the Masters Program
Prof. Rossitza Konakchieva, Dr. Habil.
Tel: (+359 2) 81 67 291
r.konakchieva@biofac.uni-sofia.bg

Secretary of the Masters Program
Assist.Prof . Dr. Petar Eftimov
Tel: (+ 359 2) 81 67 291
peftimov@uni-sofia.bg

SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI
FACULTY OF BIOLOGY

8, Dr. Tzankov Blvd.
1164 Sofia, BULGARIA
Tel/Fax 02 865 66 41

SOFIA UNIVERSITY

ST. KLIMENT OHRIDSKI

DEPARTMENT OF CYTOLOGY, HISTOLOGY AND EMBRYOLOGY

MASTERS DEGREE PROGRAM

DEVELOPMENTAL BIOLOGY

FACULTY OF BIOLOGY

Admission requirements

Candidates should hold a Bachelor's degree in one of the specialties included in Biological Sciences, Medicine, Veterinary Medicine and Biotechnology.

The course is based on the assessment of Histology and / or Embryology from a compulsory or elective course of study, Cytology, General Histology and Embryology for the graduates of "Medicine" or "Dental Medicine" or Cytology, Histology and Embryology for Veterinary Medicine graduates.

Form of education

Regular

Period of training

The duration is 3 semesters for Bachelor degree graduates from professional fields Biological Sciences, Biotechnology, Medicine, Dental and Veterinary Medicine

Educational and professional objectives of the master program

To provide detailed, modern knowledge in the field of reproductive biology and biology of individual development.

The Master's program corresponds to 90 ECTS credits.

COURSE STRUCTURE

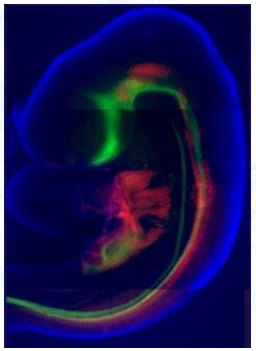
First semester

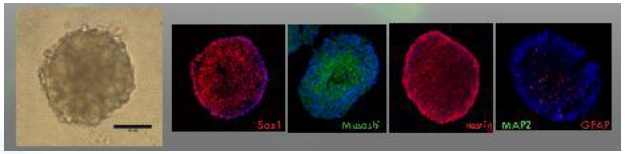
Compulsory courses

- Developmental genetics
- Hormonal control of reproductive function in mammals
- Microscopic anatomy of organs
- Cell cultivation
- Cell bioenergy

Elective courses *

- Control mechanisms of cell proliferation
- Cell signaling
- Nuclear domains
- Neural cell organization and functions





Second semester

Compulsory courses

- Biology of mammalian development
- Infertility in humans and assisted reproduction
- Embryobiotechnology
- Molecular Embryology
- Stem Cells

Elective courses *

- Epigenetic mechanisms of mammalian development
- Animal models of embryonic development
- Role of apoptosis in norm and pathology
- Cellular and molecular mechanisms of immune response

Students choose one of the options offered in the program

Third semester
Compulsory courses

- Pre-diploma practice

** STUDENTS MUST CHOOSE ONE ELECTIVE COURSE FOR FIRST AND SECOND SEMESTER. ONCE SELECTED, THESE DISCIPLINES ARE MANDATORY.*