Teaching Program for the students of the Faculty of Medicine & Dentistry
5 year English Program at the Pomeranian Medical University in Szczecin
Course: Pathophysiology

Name and address of the Department:
Department of General Pathology
Chair of Physiopathology
Pomeranian Medical University
Al. Powstańców Wlkp. 72
70-121

Head of the Department:
Prof. dr hab. med. Bogusław Machaliński

Person responsible for didactics:
Prof. dr hab. med. Bogusław Machaliński

Total hours:
Total – 60
Seminars – 0
Practical classes - 45

ETCS points:
5

Aim of the course:
Upon completion of the course students are expected to have extended knowledge and
comprehension on how various aspects of human physiology can be distorted by
pathological processes and how this results in development of diseases.

Teaching program:

Topics of practical classes:
1. Introductory seminar
2. The cell and genetic material
3. Stem cell-based therapy. Basic molecular techniques used for study of gene
expression
4. Pathophysiology of protein metabolism
5. Pathophysiology of carbohydrate metabolism
6. Pathophysiology of lipid metabolism
7. Summary and crediting of seminars 2-6
8. Inflammation
9. Immunopathology
10. Neoplasia I
11. Neoplasia II
12. Summary and crediting of seminars 8-12

Forms of Activities:
Students have opportunity to participate in laboratory activities in the Department, which includes handling cells for laboratory test and culturing. Also the extended flow cytometry and cells sorting class allows them to observe the most advance laboratory and scientific technology at work. Modern audio-visual applications, including self developed computer graphics and interactive presentations are used to present complicated issues of pathogenesis of diseases.

**Evaluation:**

Students have to actively participate in seminars and upon request they have to demonstrate basic knowledge in current topic. If absent, to be credited for the seminar students have to pass oral evaluation of their knowledge regarding the missed topic. There are four tests during the course which evaluate knowledge covered by the sequences of seminars. Students are allowed to write the tests only if all seminars in related period are credited. All four tests have to be passed before students are allowed to write the final exam, the passing of which equals to completion of the course (details in The Statute).

**Obligatory booklist:**
Robbin’s “Pathologic Basis of Diseases 8th Edition”

**Optional booklist:**
Harrisson’s Internal Medicine
any other internal medicine textbook

**Rules and Regulations:**
in Department of General Pathology

**Department of General Pathology**
The Statute (2010/2011)
Third Year
Pathophysiology Course

**The seminars:**
The classes are compulsory. The missed class must be credited based on oral evaluation of knowledge on the missed topic.
There are four tests verifying student’s knowledge after each set of topics.
The tests are of single choice questions.
The students should refer to material presented during seminars. The material enclosed in Robbin’s “Pathologic Basis of Diseases 8th Edition” book is obligatory. Harrison’s Internal Medicine or other Internal Medicine books should serve as the reference books.
Students who fail the test should have their re-takes in the week before the next colloquium (second term). The final re-take (the third term) takes place before the final exam. The second and third re-take will be oral.
Unexplained absence (without formal explanation from doctor or Dean) during the test is equal to failing the test or exam.
Formal explanation should be delivered within two weeks since the last test, otherwise refer to point 5 of the statute.
Unexplained late coming over 15 min will be treated as unexplained absence.
Up to 2 unexplained seminars are allowed during the whole course. More then 2 is equal to failing the course.

**The exam**
The students who have all their tests passed and have been credited for all classes are permitted to sit the exam.
The unexplained lectures have to be credited before the final exam.
The exam consists of 50 single choice test questions (60 minutes).
The students who reach the average mark of all tests beyond 4.5 will be exempted from the final exam (with the mark - at least 5).
The students who fail the final exam (first term) will have their re-take (second term) in September (40 single choice test questions). The third term (final re-take) will be oral and take place in the late September. The third term will be supervised directly by the Head of the Department of General Pathology.