

The University of Pécs  
Medical School

GENERAL MEDICINE  
Major

STUDY PROGRAM  
2010/2011

Criterion requirements

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## **OARELS FIRST AID**

Course director:

**DR. ISTVÁN SÁROSI**, associate professor  
Department of Anaesthesia and Intensive Therapy

**0 credit - signature - Criterion requirement module - autumn semester - recommended semester: 1**

Number of hours/semester: **0 lectures + 14 practices + 0 seminars = total of 14 hours**

Headcount limitations (min-max.): **1 – 250**

Prerequisites: **see in the recommended curricula!**

### *Topic*

Short description of the curriculum:

The first year students are expected to learn the basic elements of the emergency treatment and the methods of life saving interventions during the 14 class practice. The teaching will provide enough skill training for recognizing the signs of cardiac and breathing arrests and for performing the steps of basic life support interventions. Furthermore, the students are also expected to learn how to avoid life threatening secondary complications in accident victims on the scene and during transportation as well as in the emergency room. They will have to properly diagnose and help patients with acute chest pain, severe poisoning, metabolic disorders and acute central nervous diseases. The students are also expected to properly deal with acute airway obstructions using different first aid maneuvers.

Goals of the course in relation to the medical curriculum:

The discipline has two major goals. First: the students will have to be able to provide first aid to patients in acute illness in out-of-hospital settings. Second: the student being at the beginning of their medical curriculum should receive practical information reflecting the importance of the preclinical disciplines. In this way the students' interest will hopefully rise towards the theoretical subjects and they can understand the scientific connections between basic and applied medical sciences.

*Conditions for acceptance of the semester*

The maximum absences are 20% of the practice time.

*Making up for missed classes*

The student can join other group for the supplementation.

*Reading material*

Göbl. G.: Oxiologia

*Lectures*

*Practices*

1. Principles of basic life support (first aid in life threatening emergencies, ABC of resuscitation, indications, methods of external cardiac compression, skill).
1. Principles of basic life support (first aid in life threatening emergencies, ABC of resuscitation, indications, methods of external cardiac compression, skill).
2. First workout of the elements of basic life support.
2. First workout of the elements of basic life support.
3. Acute chest pain syndromes (acute myocardial infarction, etc.)
3. Acute chest pain syndromes (acute myocardial infarction, etc.)
4. Acute severe injuries, hemorrhagic shock.
4. Acute severe injuries, hemorrhagic shock.
5. Severe poisoning.
5. Severe poisoning.
6. Dangerous metabolic abnormalities, airway obstructions, acute central nervous
6. Dangerous metabolic abnormalities, airway obstructions, acute central nervous
7. Second workout of the elements of basic life support.
7. Second workout of the elements of basic life support.

*Seminars*

*Exam topics/questions*

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## OAROKA GENERAL CHEMISTRY

Course director:

DR. ATTILA AGÓCS, assistant professor  
Department of Biochemistry and Medical Chemistry

**0 credit • signature • Criterion requirement module • autumn semester • recommended semester: 1**

*Number of hours/semester:* **0 lectures + 0 practices + 28 seminars = total of 28 hours**

*Headcount limitations (min-max.):* **5 – 0**

*Prerequisites:* **see in the recommended curricula!**

### *Topic*

The course provides the basics of chemistry for students in the medical school to widen their knowledge acquired in other first semester courses. Calculations will be also a major topic in the seminars.

### *Conditions for acceptance of the semester*

Two tests will be written during the semester (probably on the 6th and 12th weeks). The students have to obtain at least 30% of the points of two tests to fulfill the requirements.

### *Making up for missed classes*

Not possible.

### *Reading material*

McMurry, Fay- Chemistry

P. Gergely -Organic and Bioorganic chemistry for medical students

### *Lectures*

### *Practices*

### *Seminars*

1. Atomic structures
2. Periodic properties
3. Chemical bonding
4. Chemical bonding II.
5. Nomenclature of inorganic compounds
6. Basics of inorganic chemistry I.
7. Basics of inorganic chemistry II.
8. Basics of inorganic chemistry III.
9. Basics of inorganic chemistry IV.
10. Basics of inorganic chemistry V.
11. Chemical reactions I.
12. Chemical reactions II.
13. Chemical reactions III.
14. Chemical reactions IV.
15. Chemical reactions V.
16. Chemical reactions VI.
17. Complexes
18. Basics of organic chemistry I.
19. Basics of organic chemistry II.
20. Basics of organic chemistry III.
21. Nomenclature of organic compounds
22. Isomerism I.
23. Isomerism II.
24. Alkanes
25. Halogenated compounds
26. Functional groups I.
27. Functional groups II.
28. Functional groups III.

### *Exam topics/questions*

## OARAPG SUMMER PRACTICE IN HOSPITAL CARE

Course director:

DR. GABRIELLA PÁR, assistant professor  
1st Department of Internal Medicine

**0 credit - signature - Criterion requirement module - spring semester - recommended semester: 2**

*Number of hours/semester:* **0 lectures + 90 practices + 0 seminars = total of 90 hours**

*Headcount limitations (min-max.):* **1 – 0**

*Prerequisites:* **see in the recommended curricula!**

### Topic

Recognition of the role of nurses in the patient care, development of optimal partnership among physician, nurse and patient. Being the first direct activity at the bed-side, preparation and skill improvement for later practices.

### Conditions for acceptance of the semester

No absences allowed.

### Making up for missed classes

Making up absences is only possible next year.

### Reading material

Elkin, M. K., Perry A. G., Potter P. A. Nursing Interventions -- Clinical Skills, 4th Edition. Mosby Elsevier, 2008. ISBN: 978-0-323-04458-5

Milliken M.E., Campbell G.: Essential Competencies for Patient Care. Mosby, 1985. ISBN-13: 9780801634567

Pearson A., Vaughan B., Fitzgerald M. Nursing Models for Practice, 3rd Edition, Butterworth-Heinemann, 2005. ISBN: 978-0-7506-5442-5

([http://books.google.hu/books?id=ckYIU6b\\_iiYC&pg=PR1&ots=PoNDtjsTEY&dq=Pearson%20Vaughan&hl=en&pg=PR9#v=onepage&q=&f=false](http://books.google.hu/books?id=ckYIU6b_iiYC&pg=PR1&ots=PoNDtjsTEY&dq=Pearson%20Vaughan&hl=en&pg=PR9#v=onepage&q=&f=false))

Nursing lecture slides: [http://www.pote.hu/index.php?page=egyseg&egy\\_id=1650&nyelv=eng&menu=okt\\_anyag](http://www.pote.hu/index.php?page=egyseg&egy_id=1650&nyelv=eng&menu=okt_anyag)

### Lectures

#### Practices

1-90. Nursing practice at an adult inpatient care unit.

#### Seminars

#### Exam topics/questions

The practice has to be completed at adult inpatient care units of University Hospitals, Teaching Hospitals and County Hospitals providing continuous emergency care. It is not allowed to spend the practice at Psychiatry, Infectology, at chronic nursing ward or at rehabilitation units.

The practice is 3 weeks long, 30 hours weekly. We recommend two weeks on day shift, at the third week 3 days on afternoon shift, 2 days on night shift.

No tests are planned. The certificate about the practice has to be completed by the chief nurse of the ward (with signature, readable name and stamp of the ward). A name tag should be worn during the practice.

The students are expected to know the structure of hospital work management, schedules and hierarchy of duties, patient care documentation. They should participate in every day patient care activity, in medical ward rounds.

#### Skills for practice:

Admitting patients on the ward, registering data on patient care chart and temperature chart (measuring temperature, weight, height, pulse, blood pressure, breathing counting), taking patient care history, making patient care plan.

Making the bed after a patient is sent home, do bedside wash and disinfecting. Making empty beds. Making the bed and changing the bed linen under immobilized patients. Washing immobilized patients, if needed doing mouth and nail care, combing of hair. To know the prevention and treatment of decubitus. Assisting when moving patients, seating the patients, placing them in a wheel chair. Assisting when meals are sorted out, helping to feed patients.

Monitoring patient's stool, urine and other discharge. Assisting the preparation and sending of examination material (blood, urine, stool) to the laboratory. Filling out supplementary charts. Preparation of and assistance in catheterization. Practising urine testing. Preparation and assistance at placement of surgical dressings. Use of disinfectants. Cleaning and disinfecting bed pans, urine glasses, chamberpot.

Assisting when sorting out medication, preparation of and assistance at infusions, injections and transfusions. Preparation of needles, syringes, and instruments for sterilization.

## **OARAPI NURSING SKILLS THEORY - HOSPITAL CARE**

Course director:

JUDIT KOVÁCS-KELEMEN, nursing director  
Family Medicine Inst.

**0 credit • signature • Criterion requirement module • spring semester • recommended semester: 2**

*Number of hours/semester:* **7 lectures + 7 practices + 0 seminars = total of 14 hours**

*Headcount limitations (min-max.):* **5 – 200**

*Prerequisites:* **see in the recommended curricula!**

### *Topic*

Knowledge and skill development before the obligatory nursing practice, which is the basic requirement of the commence of the direct bed-side activities.

### *Conditions for acceptance of the semester*

15% absence

Writing a test, that must be better than 50 %.

### *Making up for missed classes*

Next year.

### *Reading material*

1997. évi CLIV. törvény az egészségügyről

Egészségügyi Minisztérium: Decubitus kezelés. (oktatófilm)

Elkin, Martha; Perry, Anne ; Potter, Patricia: Ápolói beavatkozások és műveletek. Medicina Könyvkiadó Rt. Budapest, 2000.

Lemon Füzetek 1-14. Lemon Learning Material on Nursing. Ápolási tananyag-csomag, MEDINFO, Budapest, 1997.

Milliken, Mary Elizabeth: Mindennapos betegápolás: az ápolónői hivatás kézikönyve. Medicina Könyvkiadó Rt. Budapest, 2003.

Környezetvédelmi minisztérium; SEPTOX Kft.: Veszélyes kórházi hulladék gyűjtése és kezelése. (oktatófilm)

Köszegfalvi Edit: Egészségügyi és betegjogi kézikönyv. KJK-KERSZÓV Jogi és Üzleti Kiadó Kft. Budapest, 2001.

Országos Munkabiztonsági és Balesetmegelőzési Főosztály; Baranya Megyei Kórház Ápolásigazgatás: Korszerű betegmozgatás. (oktatófilm)

Pearson, Alan; Vaughan, Barbara: Az ápolási gyakorlat modelljei. Medicina Könyvkiadó Rt. Budapest, 1995.

### *Lectures*

1. The completeness and damage of life. Need of person, need of nursing.
2. Definition and mission of nursing. Situation of nursing in the clinical structure.
3. The place and instruments of nursing. The person of the patient and nurse. Ethical issues at the bed-side. Patients' rights.
4. Process of nursing.
5. The helping environment of nursing. The role of the family. Clinical volunteer.
6. Form of the patient's helping environment. Bed, making the bed, convenience tools. Environment at home, placing and helper using of furniture.
7. The end of the life and the nurse. Nursing of the dying patient, actual activities with the died patient.

### *Practices*

1. Own case report-sick patient in the family.
2. Everyday listening of patient, measures, documentation, controll.
3. Basic nursing.
4. Special nursing.
5. Modern principles of moving of the patient.
6. Models of nursing.
7. Documentation of nursing. Data protection.

### *Seminars*

### *Exam topics/questions*

## **OAROKG SUMMER PRACTICE IN MEDICAL COMMUNICATION SKILLS**

Course director:

**DR. LAJOS NAGY**, professor  
Family Medicine Inst.

**0 credit - signature - Criterion requirement module - spring semester - recommended semester: 2**

*Number of hours/semester:* **0 lectures + 30 practices + 0 seminars = total of 30 hours**

*Headcount limitations (min-max.):* **5 – 200**

*Prerequisites:* **see in the recommended curricula!**

### *Topic*

The practice with a GP (5 days/week x6 hours/day x 1 week= 30 hours) can be completed in the praxis of the mentors of the Institute of Family Medicine.

### *Conditions for acceptance of the semester*

After its completion, we require feedback both from the mentors and the students.

### *Making up for missed classes*

next year

### *Reading material*

R. McWhinney: A textbook of Family Medicine 2nd edition  
Oxford University Press, 1997

R. B. Taylor: Fundamentals of Family Medicine, 2nd edition Springer, 1998

### *Lectures*

#### *Practices*

1. Basic physical examinations
2. Living circumstances
3. Present complaints
4. Evaluation of the experiences
5. Evaluation of the interview
6. Evaluation and summary of the program
7. Introduction of the team
8. Practice of the greetings and the introduction
9. First interview
10. Visit of the patient at home
11. Second interview
12. Evaluation of the interview
13. Introduction of the praxis
14. The role and the place of the students in the office
15. The different situations in the office
16. The different situations in the office
17. The role and the place of the students in the office
18. The most common problems of the patients
19. Methods of the administration
20. Collection of the main symptoms
21. Collection of the main symptoms
22. Evaluation of the symptoms
23. Risk factors
24. summary of the problems
25. Evaluation of the first interview
26. Past medical history
27. Visit of the patient at home
28. Visit of the patient at home
29. Visit of the patient at home
30. Evaluation of the interview

### *Seminars*

### *Exam topics/questions*

**OARHUF-O FINAL EXAMINATION IN MEDICAL HUNGARIAN - ORAL**

Course director:

DR. GÁBOR RÉBÉK-NAGY, associate professor  
Department of Languages for Specific Purposes

**0 credit • signature • Criterion requirement module • both semesters semester • recommended semester: 4**

Number of hours/semester: **0 lectures + 0 practices + 0 seminars = total of 0 hours**

Headcount limitations (min-max.): **1 – 400**

Prerequisites: **see in the recommended curricula!**

*Topic*

*Conditions for acceptance of the semester*

*Making up for missed classes*

*Reading material*

*Lectures*

*Practices*

*Seminars*

*Exam topics/questions*

**OARHUF-W FINAL EXAMINATION IN MEDICAL HUNGARIAN - WRITTEN**

Course director:

DR. GÁBOR RÉBÉK-NAGY, associate professor  
Department of Languages for Specific Purposes

**0 credit • signature • Criterion requirement module • both semesters semester • recommended semester: 4**

*Number of hours/semester:* **0 lectures + 0 practices + 0 seminars = total of 0 hours**

*Headcount limitations (min-max.):* **1 – 400**

*Prerequisites:* **see in the recommended curricula!**

*Topic*

*Conditions for acceptance of the semester*

*Making up for missed classes*

*Reading material*

*Lectures*

*Practices*

*Seminars*

*Exam topics/questions*

**OARBEL**

**SUMMER PRACTICE IN INTERNAL MEDICINE**

Course director:

DR. ISTVÁN WITTMANN, professor  
2nd Department of Internal Medicine

**0 credit • signature • Criterion requirement module • spring semester • recommended semester: 6**

Number of hours/semester: **0 lectures + 140 practices + 0 seminars = total of 140 hours**

Headcount limitations (min-max.): **5 – 0**

Prerequisites: **see in the recommended curricula!**

*Topic*

The students should gain mastery of the most significant components of diagnosis in internal medicine, they should acquire routine in dealing with patients, they get used to admit new patients, to plan the most important diagnostic examinations, and to summarise the patients' complaints and examination results in a synopsis (epicrisis).

Independent practical work in the fields listed below:

1. Admission of patients, daily follow-up,
2. Drawing of blood, giving injections and infusions,
3. ECG taking and evaluation,
4. Rectal digital examination,
5. Taking part in gastroscopy and colonoscopy,
6. Taking part at non-invasive cardiological tests and at ultrasound examinations,
7. Taking part at ward rounds and staff meetings.

Internal medicine practice can be spent in a foreign country if the student speaks the language of the host country. The student should prepare a written essay about his/her experiences.

*Conditions for acceptance of the semester*

Type of exam: signature.

Maximal allowed absence 3 days (15%).

*Making up for missed classes*

*Reading material*

Bates, B.: A Guide to Physical Examination and History Taking 6th Edition (J. B. Lippincott Company),

Greenberg, Hinthorn: History taking and physical examination (Mosby-Year Book Inc)

*Lectures*

*Practices*

1-140. Practice in the topics declared in `Short introduction` section (syllabus)

*Seminars*

*Exam topics/questions*

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**OARSEB**

**SUMMER PRACTICE IN SURGERY**

Course director:

DR. ÖRS PÉTER HORVÁTH, professor  
Surgery Clinic

**0 credit - signature - Criterion requirement module - spring semester - recommended semester: 8**

Number of hours/semester: **0 lectures + 120 practices + 0 seminars = total of 120 hours**

Headcount limitations (min-max.): **5 – 300**

Prerequisites: **see in the recommended curricula!**

*Topic*

It includes the obligatory 4 weeks summer practice for 4th year students in surgical departments. The mainly bedside practice of 4th year students provides a better knowledge of patient care and management (know-how of patient investigation, evaluation of diagnostic finds, observer-activity at operations, wound care, change of dressing, etc.)

*Conditions for acceptance of the semester*

*Making up for missed classes*

The summer practice is obligatory. To do it abroad a special consent is needed from the head of the clinic.

*Reading material*

Schwartz: Principles of Surgery. Pre-test self-assessment and review, McGraw Hill Company, NY., 1999.

Sabiston D.C.: Textbook of Surgery, Saunders, Philadelphia, 1991.

Poerter - Malt: Oxford Textbook of Surgery, Oxford University Press, 1995.

CD-ROM, clinical computers

*Lectures*

*Practices*

1. Bedside practice at the thoracic surgical unit:
2. Control of sucking pressure: and peripheral O<sub>2</sub>-saturation
3. Investigation of respiratory capacity (functional tests)
4. Postoperative assisted ventilation and supporting physiotherapy
5. Supportive treatment of venous disorders (elastic bandage, elastic stockings, local ointments)
6. How to check the effectivity of sympathectomy?
7. Bedside investigation of the limbs in obstructive vascular disease
8. Change of pads and bandages
9. Administration of pain-killers in patients operated on for gastrointestinal disease
10. How long should abdominal drainage be maintained?
11. Enteral and parenteral nutrition in surgical patients
12. Starting of oral nutrition following GI surgery
13. Evaluation of patients in the outpatient and emergency ambulance?
14. Necessary measures at the admission of acute cases
15. The importance of the patient's consent to the planned surgery
16. Thromboembolic prophylaxis in surgical patients

*Seminars*

*Exam topics/questions*

No questions.

**OARTE1-2-3-4 PHYSICAL EDUCATION 1-2-3-4**

Course director:

TAMÁS TÉCZELY, sports teacher  
UP Sportscenter**0 credit • signature • Criterion requirement module • both semesters • recommended semester: 1-4**Number of hours/semester: **0 lectures + 28 practices + 0 seminars = total of 28 hours**Headcount limitations (min-max.): **see charts below!**Prerequisites: **see in the recommended curricula!**

According the rules printed in the Booklet („Programmed”) for the English-speaking students, the Physical Education and Sportcenter offers three possibilities to execute Physical Education as criterion subject:

1. Participation in the physical education programs involved in the time table.
2. Participation in the regular trainings of one sport organized by the Medicus Sport Club.
3. Participation in the regular trainings of one sport organized by the University Sport club (PEAC).

At the beginning of the semester the students should sign up in the “ETR” and mark the chosen type of activity.

Tamás Teczely  
deputy manager

**Timetable, trainings, and maximum number of participants:**

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
12.00-13.30					Tr: Table tennis (20) Petőfi Áron  Pr: Training in the gym Lipcsik Zoltán (25)
13.30-15.00				Me: Squash (6) Karsaiy István 14.00-16.30	G: Football (20) Teczely Tamás  Tr: Table tennis (20) Petőfi Áron  Pr: Training in the gym Karsai István (25)
15.00-16.30	G: Aerobics (10) Fáncsik Éva	G: Floorball (8) Teczely Tamás			G: Football (20) Teczely Tamás  S: Swimming (15) Karsai István
17.00 – 18.30				PCC: Climbing (8) Karsay István	
22.00-23.30	G: Basketball (15) Petőfi Áron				

**Medikus Sport Club & Medikus Sport Association**

Kind of sport	Place	Time	Trainer	Maximum number of participants
Aerobics	G	Th: 18.00-19.00	Szilárdné Szakály Erika	30
Aerobics	Tr.	Tu. 17.30-18.30	Belák Anita	8
Aerobics	Tr	Mo. 19.00.-20.00	Szilárdné Szakály Erika	8
Aerobics	Ifjúság Str. 6.	We. 18.30-19.30	Szilárdné Szakály Erika	8
Aerobics	Ifjúság Str. 6.	We. 19.00-20.30	Fáncsik Éva	5
Pom-pom aerobics	Ifjúság Str. 6.	Mo. 19.00-20.30	Szabó Ivett	5
Xco trainig (fitness)	Ifjúság Str. 6.	We. 19.30-20.45	Szőke Zita	8
Handball (men)	G	We: 19.30-21.00	Lípcsik Zoltán	10
Handball (women)	G	Mo: 19.00-20.30	Dr. Rugási Endréné	10
Basketball (women)	G	We: 18.00-19.30	Dr. Bisztricz Anikó	10
Karate yokushin,beginner	Tr	Th: 19.00-20.00	Schlégl Ádám	10
Karate advanced	Tr	Tu: 20.00-22.00 Th: 20.00-22.00	Schlégl Ádám	8
Volleyball beginner (mix)	G	Tu: 16.30-18.00	Lípcsik Zoltán	10
Volleyball advanced (mix)	G	We: 16.30-18.00	Szabó Tamás	10
Triatlon	S	Mo. 20.00- 21.30	Kaurics Zita	5
Badminton	G	Th: 16.30-18.00	Lípcsik Zoltán	10
Hiking	Mecsek	As agreed on	Farkas György	20
Kick-Box	Tr	Fr: 19.00-20.30	Blazsekovics Ferenc	15
Airsoft	Behind the Balokány	Weekends	Kovács Szabolcs	10

**Abbreviations:** **G:** physical education building, **Tr:** training room, **F:** football field at the TESCO **Me:** Mecsek Squash Centrum Pécs, Ybl Miklós út 10. **Pr:** „Professor Gym” Pécs, Megyeri út 4. **PCC** Pécsi Climbing Club Pécs, Búza tér 6/b