

## Recommended textbooks for first year pharmacy students

### PHYSICS-BIOPHYSICS

#### Obligatory:

Á. Süli: *Physics for students of pharmacy* (handout)

P. Simon: *Practical Physics* (handout)

#### Recommended:

I. Tarján ed. *An introduction to Biophysics with medical orientation*  
Budapest: Akadémiai Kiadó, 1987, ISBN 963 05 4070 3

G.B. Arfken et al: *University Physics*  
Academic Press, Inc.

D. Halliday et al: *Fundamentals of Physics*  
John Wiley and Sons, Inc.

### HISTORY OF PHARMACY

handout provided by the department

### MATHEMATICS

Krisztina Boda and János Karsai: *Mathematics Problems, Exercises for Pharmacy students* (handout)

Tibor Asztalos: *Mathematics for 1st year Pharmacy students* (handout)  
<<http://silver.szote.u-szeged.hu/math/mathgytk/notes/lecture-notes.zip>>

János Karsai: *Exercises and problems in Mathematics* (handout)  
<<http://silver.szote.u-szeged.hu/math/mathgytk/notes/problem-book.zip>>

János Karsai et al: *Exercises for the Mathematics practical for Pharmacy students* (handout)  
<<http://silver.szote.u-szeged.hu/math/mathgytk/notes/Exercises.zip>>

### GENERAL CHEMISTRY

Árpád Szűcs: *General Chemistry* (handout, PDF)

Árpád Szűcs: *Calculations in General Chemistry* (handout, PDF)

Árpád Szűcs: *Practices in General Chemistry* (handout, PDF)

### PHARMACEUTICAL BIOLOGY

*Cell Biology and Molecular Genetics I.*

*Cell Biology and Molecular Genetics II.*

*Life* (textbook)

### ANATOMY

András Mihály, MD, DSc: *Human Anatomy, Histology and Development*  
Handout for Pharmacy Students at Albert Szent-Györgyi Medical University, Szeged, 1998.

2nd semester

## **INORGANIC CHEMISTRY**

N.N. Greenwood and A. Eranshaw: *Chemistry of the Elements*, 1<sup>st</sup> ed.  
Pergamon Press Ltd., 1984

## **QUALITATIVE CHEMICAL ANALYSIS**

Vogel's *Qualitative Inorganic Analysis*, 7th ed. Longman, 1997

## **QUANTITATIVE CHEMICAL ANALYSIS**

### Theory

#### Obligatory:

D. A. Skoog, D. M. West, F. J. Holler and S. R. Crouch: *Fundamentals of Analytical Chemistry*, Brooks/Cole, 2004, 8th Edition

#### Recommended:

D. A. Skoog, F. J. Holler and T. A. Nieman: *Principles of Instrumental Analysis*, Saunders College Publishing, 1999.  
J. S. Fritz and G. H. Schenk: *Quantitative Analytical Chemistry*, Allin and Bacon, 1987.  
H. H. Willard et al.: *Instrumental Methods of Analysis*, Wadsworth Publ. Co., 1988.

### Practice

#### Obligatory:

G. Galbács, K. Gajda-Srantz: *Laboratory Manual for Pharmacy Students in Quantitative Analytical Chemistry* (manual in manuscript form, currently available for the students in handout form, to be published in 2009)

A. Csikkel-Szolnoki, K. Jáky: *Problems in Quantitative Analytical Chemistry for Pharmacy Students* (ed. By G. Ács) Szeged, 1991, JATE Press

## **BIOSTATISTICS**

Lecture notes: <http://www.szote.u-szeged.hu/dmi/>

#### Recommended:

Arnold Naiman, Robert Rosenfeld, Gene Zirkel: *Understanding Statistics*. McGraw-Hill International Editions, 1983.

Station A Glantz: *Primer of Biostatistics*. McGraw-Hill, 1992.

M.J.Campbell, D.Machin: *Medical Statistics*. John Wiley & Sons, 1993.

Rice *Virtual Lab in Statistics*. <http://onlinestatbook.com/rvls.html>

## **FIRST AID AND RESUSCITATION**

Brent Q. Hafen–Keith J. Karren: *First Aid and New CPR Guideline* (ISBN 0-89303-877-6)

## Recommended textbooks for second year pharmacy students

### ORGANIC CHEMISTRY

Dr. Árpád Molnár: *Basic Organic Chemistry I. and II.* (handout)

J. McMurry: *Fundamentals of Organic Chemistry*, 4<sup>th</sup> ed.  
Brooks/Cole Publishing Company, 1998

Solomons-Fryhle: *Organic Chemistry*

### PHARMACEUTICAL BOTANY

A. Fahn: *Plant Anatomy*, 4<sup>th</sup> ed., Pergamon Press, 1990

### PHYSIOLOGY

William F. Ganong: *Review of Medical Physiology* 20<sup>th</sup>, 21<sup>st</sup> and 22<sup>nd</sup> ed. by The McGraw-Hill Companies, Inc. 2001, 2003, 2005

Dr. Éva Kiss: *Physiology Laboratory Manual* (handout)

### PHYSICAL CHEMISTRY

*Physical Chemistry* (handout), 1987, SZOTE

*Physico Chemical Experiments* (handout), 1987, SZOTE

### COLLOID CHEMISTRY

#### Theory

#### Obligatory:

Etelka Tombácz: *Colloid Chemistry for Pharmaceutical Students*. JatePress, Szeged 1988.

Lecture notes: <http://koll1.chem.u-szeged.hu/colloids/staff/zoli/Pharmacy/>

#### Recommended:

D. J. Shaw: *Introduction to Colloid and Surface Chemistry*. 4th Ed., Butterworth-Heinemann, Oxford 1992.

D. H. Everett: *Basic Principles of Colloid Science*. The Royal Society of Chemistry, London 1988.

D. F. Evans, H. Wennerström: *The Colloidal Domain: Where Physics, Chemistry, Biology and Technology Meet*. 2nd Ed., Wiley-VCH, New York 1999.

R. J. Hunter: *Foundations of Colloid Science*. Vol. 1., Clarendon, Oxford 1989.

#### Laboratory Practice

#### Obligatory:

Etelka Tombácz: *Laboratory Manual of Colloid Chemistry for Pharmaceutical Students*. JatePress, Szeged 1987.

## **BIOCHEMISTRY**

Pamela C. Champe, Richard A. Harvey: *Lippincott's Illustrated Reviews*, BIOCHEMISTRY, 4th edition, Wolters Kluwer/Lippincott Williams&Wilkins, ISBN-13:978-07817-6960-0

Robert K. Murray, Daryl K. Granner, Peter A. Mayes, Vicot W. Rodwell: *Harper's Illustrated Biochemistry* 25th edition Lange, ISBN: 0-07-121766-5 (International Edition)

## **BASIC COMMUNICATION** (elective course)

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)

## Recommended textbooks for third year pharmacy students

### PHARMACOGNOSY

#### Obligatory handout:

Tóth, László: *Pharmacognosy I-II*

Gellért, Mária: *Pharmacognosy Practice*

#### Recommended textbooks:

Bruneton, Jean: *Pharmacognosy Phytochemistry Medicinal Plants*, 2<sup>nd</sup> edition, Lavoisier Publishing, Paris 1999

Eavens, William Charles: *Pharmacognosy*, 15<sup>th</sup> edition, W. B. Saunders, Edinburgh 2002

### PHARMACEUTICAL CHEMISTRY

Lecture notes provided by the department

### PHARMACEUTICAL TECHNOLOGY

#### Obligatory:

M.E. Aulton: *Pharmaceutics. The Science of Dosage Form Design*, Churchill Livingstone, 2<sup>nd</sup> ed., 2002, ISBN: 0443055505

#### Recommended:

M.J. Groves: *Parenteral Technology Manual*, Interpharm Press, 2<sup>nd</sup> ed. , 1988, ISBN: 0-935184-10-4

S. Wu-Pong, A.B.C. Yu: *Applied Biopharmaceutics & Pharmacokinetics*, McGraw-Hill, 5<sup>th</sup> ed., 1999, ISBN: 0-07-137550-3

### MICROBIOLOGY

Hugo and Russells: *Pharmaceutical Microbiology* (Ed.: S.P. Denyer et al.) 7th ed. (2004)  
Blackwell Publishing, ISBN 0-632-06467-6

Levinson and Jawetz: *Medical Microbiology and Immunology*. Lange Med. Publ. 9th  
Ed.: 2006, ISBN: 0-07-146031-4

*Practical Notes* Edited by R. Pusztai, SZOTE, 2002

### IMMUNOLOGY

A.K. Abbas et. al.: *Basic Immunology*, 2nd ed. (2006-2007), ELSEVIER Saunders, ISBN 1-4160-2974-5

### PATHOPHYSIOLOGY

#### Recommended:

McPhee, Lingappa, Ganong: *Pathophysiology of Disease*, 5<sup>th</sup> ed.  
McGraw-Hill Medical, 2006, ISBN: 13 9780071441599 MHID 007144159X

Silbernagl, Lang: *Color Atlas of Pathophysiology*  
George Thieme Verlag, 2000, ISBN: 9780865778665 / 9783131165510

Goldman, Ausiello: *Cecil Medicine*, 23<sup>rd</sup> ed.  
Saunders, 2008, ISBN: 978-1-4160-2805-5

Fauci, Braunwald, Kasper, Hauser, Longo, Jameson, Loscalzo: *Harrison's Principles of Internal Medicine* 17th ed.  
McGraw-Hill Medical, 2008, ISBN: 0071466339 / 9780071466332

Khan: *Rapid ECG Interpretation* 3<sup>rd</sup> ed.  
Human Press Inc, 2008, ISBN: 978-1-58829-979-6

Foster: *Twelve-lead electrocardiography theory and interpretation*, 2<sup>nd</sup> ed.  
Springer-Verlag, 2007, ISBN-10: 1-84628-592-5, ISBN-13: 978-1-84628-592-9

Wagner: *Marriott's Practical Electrocardiography*, 11<sup>th</sup> ed.  
Lippincott Williams&Wilkins, 2007, ISBN-10: 0781797381, ISBN-13: 9780781797382

Bayés de Luna: *Basic electrocardiography normal and abnormal ECG patterns*  
Blackwell Publishing, 2007, ISBN: 978-1-4051-7570-8

Abedin & Conner: *ECG Interpretation – The Self-Assessment Approach*, 2<sup>nd</sup> ed.  
Blackwell Publishing, 2008, ISBN: 978-1-4051-6749-9

Morris, Edhause, Brady, Camm: *ABC of Clinical Electrocardiography*  
BMJ Publishing Group, 2003, ISBN: 0 7279 1536 3

#### Handouts:

#### Theory:

Lázár G.: *Pathophysiology of Hematological Diseases. Disorders of Erythropoiesis*, 1997

Lázár G.: *Pathophysiology of Hemostasis. Bleeding Disorders and Thrombosis*, 1999

Szabó G.: *Pathophysiology of Renal Diseases*, 1996

#### Practice:

Fekete M.: *Pathophysiology exercises II*. 1987

Szabó G.: *Introduction to Electrocardiography*, 1999

### **BIOPHARMACY**

Leon Shargel and Andrew Yu: *Applied Biopharmaceutics and Pharmacokinetics*, 4<sup>th</sup> edition  
Appleton and Lange, 1999, ISBN 0-8385-0278-4

M.E. Burton., L.M. Shaw, J.J. Schentag, W.E. Evans: *Applied Pharmacokinetics and Pharmacodynamics. Principles of Drug Monitoring*, 4<sup>th</sup> ed., Lippincott Williams and Wilkins, 2006

### **COMMUNICATION IN PHARMACY PRACTICE** (elective)

W. N. Tindall, R. S. Beardsley, C. L. Kimberlin: *Communication Skills in Pharmacy Practice*, 4th Ed., Lippincott Williams&Wilkins, 2003

## Recommended textbooks for fourth year pharmacy students

### **PHARMACEUTICAL ANALYSIS**

Kenneth A. Connors: *A Textbook of Pharmaceutical Analysis*, 3<sup>rd</sup> ed.  
John Wiley and Sons, 1982

### **PHARMACODYNAMICS**

Bertram G. Katzung: *Basic and Clinical Pharmacology*, 6<sup>th</sup> edition  
Prentice-Hall International Inc., 1995, ISBN 0-8385-1453-7

Bertram G. Katzung: *Basic and Clinical Pharmacology*, 10<sup>th</sup> edition, McGraw-Hill

### **PUBLIC HEALTH**

Lectures notes for pharmaceutical students: *Public Health*, Szeged, 2008

### **ETHICS IN PHARMACY**

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)

### **INTRODUCTION TO LAW**

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)

### **INTRODUCTION TO ECONOMICS**

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)

### **DRUG REGULATORY AFFAIRS**

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)

## Recommended textbooks for fifth year pharmacy students

### **CLINICAL PHARMACY**

#### Recommended:

Clinical Pharmacy and Therapeutics, 3<sup>rd</sup> edition by Roger and Clive R. W. Edwards, MA, MD (Cantab), FRCPE, FRCP, FRSE  
Published by Churchill Livingstone, 2003  
ISBN: 0443071373

### **PHARMACODYNAMICS**

Bertram G. Katzung: *Basic and Clinical Pharmacology*, 6<sup>th</sup> edition  
Prentice-Hall International Inc., 1995, ISBN 0-8385-1453-7

### **NATURAL TREATMENTS**

S. Fulder: *The handbook of alternative and complementary medicine*, 3<sup>rd</sup> ed., Oxford Univ. Press, 1996

*Fundamentals of complementary and alternative medicine*. Ed. By M.S. Micozzi, Churchill Livingstone 1996

### **PHARMACEUTICAL PSYCHOLOGY**

B.J. Sadock - V.A. Sadock: *Kaplan & Sadock's Concise Textbook of Clinical Psychiatry*. 2nd ed.  
Lippincott Williams & Wilkins, Philadelphia, 2004. ISBN 0-7817-5033-4.

H.I. Kaplan - B.J. Sadock: *Synopsis of Psychiatry*.

### **QUALITY ASSURANCE**

Lecture presentations: [www.pharm.u-szeged.hu/gyfi/eng](http://www.pharm.u-szeged.hu/gyfi/eng)