

LIST OF TEXTBOOKS-1st YEAR:

1. Physics and Biophysics

A. Obligatory

E-LEARNING PLATFORM (LMS):

- Encompasses video lectures, interactive, and supplementary materials covering the content of lectures, seminars, and exercises from all thematic sections.
- Allows self-assessment of knowledge through Assignments divided into thematic sections and progress throughout the course.

BOOKS and TEXTS

- Pisano: Physics for Anesthesiologists, Springer, Switzerland, 2021.
- Young and Freedman: University Physics with Modern Physics, Pearson, 2019 (selected chapters only!)

B. Additional

1. University Physics, Volume 1-3, S.J. Ling, Open Stax, 2016
2. J. Newman: Physics of the Life Sciences, Springer, New York 2008
3. I.P. Herman: Physics of the Human Body, Springer, Berlin 2007
4. P. Davidovits: Physics in Biology and Medicine, Harcourt Academic Press, San Diego, 2001.

2. Medical and Molecular Biology

A. Obligatory

01. Geoffrey Cooper and Kenneth Adams (2022): The Cell: A Molecular Approach, 9th edition, Sinauer Associates, New York, Oxford, Oxford University press.
<https://global.oup.com/ushe/product/the-cell-9780197583722?cc=hr&lang=en&>

B. Additional

1. Alberts, B., Johnson, A., Lewis, J., Morgan, D., Raff, M., Roberts, K., Walter, P (2022) : Molecular Biology of the Cell, 7th Edition, Garland Science, Taylor and Francis Group, New York
<https://www.vitalsource.com/products/molecular-biology-of-the-cell-bruce-alberts-rebecca-heald-v9780393427080?srsid=AfmBOoreTU-09crem2O3xp75nLMYO8dO8dO9Yw6N8TKYuBMjZibbOAVI>
2. Turnpenny, P., Ellard, S., Cleaver R. (2021): Emery's Elements of Medical Genetics and Genomics 16th Edition, Elsevier, Amsterdam, Netherland, 16th Edition - 9780702079665 (elsevier.com)
3. Barresi MJF, Gilbert SF (2020): Developmental Biology, 12th edition. Sinauer Associates, New York, Oxford, OxfordUniversity Press., (selected chapters).
4. Pećina-Šlaus N, urednica. (2024). *Medicinska biologija*. Zagreb: Medicinska naklada. Na hrvatskom jeziku.

3. Anatomy and Clinical Anatomy

A. Obligatory

1. Paulsen F, Waschke J. Sobotta Atlas of Human Anatomy. Urban/Fischer Verlag/Elsevier GmbH; 17th edition, English version with Latin nomenclature, (2022) - an anatomical atlas that additionally includes concise, clearly structured textual explanations, clinical notes, and functional correlations.It

enables formative self-evaluation and an overview of advancement throughout the course.

2. Dalley AF, Agur AMR. Moore's Clinically Oriented Anatomy. Lippincott, Wolters Kluwer; 9th edition (2022).

B. Additional

1. Gilroy AM, MacPherson BR, Wikenheiser J, Schuenke M, Schulte E, Schumacher U. Atlas of anatomy. Thieme Medical Publishers, Inc.; 4th edition (2020).
2. Thieme: Color atlas of human anatomy: Vol. 1 (Platzer, 2014), Vol. 2 (Fritsch, 2014), and Vol. 3. (Kalhe. 2015). or the latest editions.
3. Rohen JW, Yokochi C, Lütjen-Drecoll E. Color Atlas of Anatomy: A Photographic Study of the Human Body. Lippincott Williams & Wilkins; 8th edition (2015).
4. Acland's Video Atlas of Human Anatomy (<http://aclandanatomy.com>)

4. Social Medicine and Introduction to Medicine

A. Obligatory

- Materials on LMS

5. History of Medicine

A. Obligatory

1. Bynum, William F. The History of Medicine: A Very Short Introduction (Very Short Introductions) .Oxford University Press; 1 edition (August 24, 2008).

6. First Aid

Obligatory :

1. ERC guidelines 2025 (or newer if available)

The following guidelines (guidelines available at cprguidelines.eu):

1. Basic life support
2. First Aid
2. Official lectures and seminars (presentations available on LMS)

B. Additional

<https://www.crorc.org>

7. Introduction to Medical Terminology

Obligatory:

1. Power point presentations and handouts

Additional:

1. Nath, J., Land Lindsley, K.P. 2019. A Short Course in Medical Terminology
2. Cohen, B.J. & DePetrus, A. 2014. Medical Terminology - An Illustrated Guide, 7th edition

8. Medical Chemistry and Biochemistry 1

Obligatory

Selected chapters from:

1. Chang R.: Chemistry; McGraw-Hill, 10th Ed., 2010.
2. Denniston K. J.: General, Organic and Biochemistry; McGraw-Hill, 4th Ed. 2003.
3. Nelson D. L. and Cox M. M.: Lehninger Principles of Biochemistry. W. H. Freeman and Company, 6th Ed., 2013.
4. Laboratory Manual - Handbook of Chemistry for Medical Students (internal script)
5. CHEMISTRY WORKBOOK for Medical and Dental Students

Additional:

Selected chapters from:

1. Silberberg M. S.: Chemistry, The Molecular Nature of Matter and Change, McGraw-Hill, 4th Ed., 2006.
2. Carey F.A.: Organic Chemistry, McGraw-Hill, 5th Ed., 2003.

9. Basic of Medical Informatics

A. OBLIGATORY

1. CONSORT and STROBE statements including explanation and elaboration documents (equator-network.org)
2. Course materials and handouts (lms.mef.hr)

B. Additional readings

1. ICMJE Recommendations (icmje.org)
2. CEBM (cebm.ox.ac.uk)
3. Guyatt G et al. Users' Guide to the Medical Literature. 3rd ed.
4. Any book containing basics of Microsoft Office, and on-line help manuals for specific programs (MS Word, MS Excel, etc.)
5. Coursera courses

10. Croatian Language

A. Obligatory

01. Course pack

B. Additional readings

Darko Matovac: Basic Croatian Grammar

11. Fundamentals of Medical Skills 1

Obligatory

1. Degoricija V ed. Emergency Medicine. Second Edition. Manualia Universitatis Studiorum Zagradiensis; Zagreb: Libar; 2013.
2. Video clips and handouts for each practical.
3. Silverman J, Kurtz SM, Draper J. Skills for communicating with patients. Radcliffe Pub., 2005.
4. Braš M, Đorđević V, Miličić D, Janjanin M. Doctor-Patient Relationship. In: Đorđević V, Braš M, Miličić D (Eds). Person in Medicine and Healthcare: From Bench to Bedside to Community. Zagreb: Medicinska Naklada; 2011: 7-15.

Additional:

1. Dorđević V, Braš M, Brajković L. Person-centered medical interview. Croat Med J. 2012 Aug;53(4):310-3.