

LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

Form Name : Block Catalogue

Revision No. :01/2020

Form No. : QAO-OP.17

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Basic information:

Program on which the Block is offered	PharmD
Qualification Awarded	BPharmD
Block title - Code - Year	Immunology – 3201– Foundational Year II
Block Type	Foundational
Total contact Hours / week [30 hrs.]	(Lectures: 5, Lab: 2, Tutorials: 4, Seminars: 2, PBL: 9, Self-study: 6, Exams: 2)
ECTS Hours	12
Pre-requisites for this Block	Fundamentals of Analytical Chemistry, Physiology, Clinical skills, Biochemistry and English Language.
Week period	6

Block Description:

This block introduces students to basic principles of pathology, genetics & immunology. This block also deals with structure and mechanism of blood circulation, microcirculation, lymphatics & liver in addition to the metabolism of basic biological molecules. Students will also develop advanced clinical skills. Problem-based learning strategies are used for this block delivery.

Block Objectives:

By the end of this Block the student should be able to:

- Explain the basic principles of pathology.
- Explain the basic concepts of genetics.
- Explain the principles of immunology.
- Discuss the electrochemical and spectrophotometric methods of drug analysis.
- Discuss the physiology of cardiovascular, lymphatic and gastrointestinal systems.
- Discuss the metabolism of basic biological molecules.
- Perform basic clinical skills.
- Develop skills of observation and critical reading.
- Analyze, interpret, and evaluate data from various sources.

Learning and Teaching Methods, & Assessment Methods

Learning and Teaching Methods:

- Problem-Based Learning (PBL)
- Lectures
- Tutorials
- Practice in lab
- Independent study assignments
- Presentations
- Seminars

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- Clinical teaching: Clinical skills lab and Simulation.

Assessment methods:

- **Continuous assessment:**
 - Problem Based Learning sessions (Brain-storming/Debriefing)
 - Reports
 - Report Discussion
 - Individual reassurance test (IRAT): MCQs
 - Group reassurance test (GRAT): MCQs
 - Presentations (oral)
 - Practice in lab
 - Open-book/open-web exam
- **End-Block exam:**
 - Written
- **Final-Block exam:**
 - Written
 - Objective structured practical examination (OSPE)
 - Objective structured clinical examination (OSCE)

Weighting of Assessment:

Continuous assessment:	60%
• PBL sessions	• 30%
• Practical sessions	• 10%
• Other Activities (Tutorial/Seminar/Assignments/Moodle Activities)	• 10%
• Mid-block Exam	• 5%
• End-block exam	• 5%
Final Exam:	40%
• Written	• 30%
• OSPE & OSCE	• 10%
Total:	100%

Assessment Schedule:

Continuous assessment:	During the block
• PBL sessions	Weeks 1-6
• Practical sessions	Weeks 1-6
• Other Activities (Tutorial/Seminar/Assignments/Moodle Activities)	Weeks 1-6

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• Mid-block exam	Week 3
• End-block exam	At the end of the block
Final exam:	At the end of the year
• Written	At the end of the year
• OSPE & OSCE	At the end of the block

Examination Regulations:

- If the student absenteeism is more than 25 % he/she cannot attempt the final exam.
- The total required percentage to pass this course is at least 60 %

List of textbooks and references:

- **Course Notes:**
 - PowerPoint presentations, videos and other materials related to lectures, tutorials and practical sessions are uploaded to the Moodle by experts on weekly basis according to teaching schedule.
- **Essential Books (Text Books):**
 - Costanzo, L.S., 2014. *Physiology. 5th ed. Philadelphia: Saunders Elsevier.*
 - Denyer, S.P., Hodges, N.A. and Gorman, S.P. eds., 2008. *Hugo and Russell's pharmaceutical microbiology.* John Wiley & Sons.
 - Hall, J.E., 2011. *Guyton and Hall textbook of medical physiology.* Philadelphia, PA: Saunders Elsevier.
 - Kumar S., *Essential of Microbiology*, 1st edition. JP Medical Ltd.
 - Murray, R.K., Granner, D.K., Mayes, P.A., Rodwell, V.W. and Biochemistry, H.S.I., 2003. a LANGE medical book. *Harper's Illustrated Biochemistry.* 26th ed. New York: McGraw-Hill Companies, Inc.
 - Pamela, C.C., Richard, A.H. and Denise, R.F., 2005. *Lippincotts illustrated reviews biochemistry.* Lippincott Williams & Wilkins, Baltimore.
 - Rubin, E. and Reisner, H.M. eds., 2009. *Essentials of Rubin's pathology.* Lippincott Williams & Wilkins.
 - Russell P.J., 2006. *iGenetics a molecular approach.* 3rd edition. Pearson /Benjamin Cummings.
 - Rules, M.H.R.A., 2007. *Guidance for Pharmaceutical Manufacturers and Distributors.*
 - Sandle, T., 2015. *Pharmaceutical Microbiology: Essentials for Quality Assurance and Quality Control.* Woodhead Publishing.
 - Snustad, D.P. and Simmons, M.J., 2006. *Principles of genetics.* Hoboken: Wiley.
 - Truant, A.L., 2016. *Manual of commercial methods in clinical microbiology.* John Wiley & Sons.

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- Christian, G., Dasgupta, P., Schung, K. 2013. *Analytical chemistry*. Willey.
- Reddy, I.K. and Khan, M.A. (2003) *Essential math and calculations for pharmacy technicians*. CRC Press.
- Rees, J.A., Smith, I. and Watson, J. (2015) *Introduction to pharmaceutical calculations*. Pharmaceutical Press.
- Tietze K. J. 2012. *Clinical skills for pharmacists " A patient-focused approach"*. 3rd edition. Elsevier mosby. USA.
- **Periodicals and websites:**
 - Becker's Usmle. (2013). *Lecture Notes Biochemistry, Genetics*. Available online: <https://www.scribd.com/document/320574453/Becker-s-USMLE-Step-1-Lecture-NotesBiochemistry-Genetics-2013-UnitedVRG>
 - Kumar, V., Abbas, A.K. and Aster, J.C., 2017. *Robbins Basic Pathology E-Book*. Elsevier Health Sciences.
 - Sattar, H.A., 2016. *Fundamentals of pathology: Medical course and step 1 review*. Pathoma. com
 - Watson, D.G., 2005. *Pharmaceutical Analysis E-Book: A Textbook for Pharmacy Students and Pharmaceutical Chemists*. Elsevier Health Sciences.
 - Dhaka S. *Role of community pharmacy and pharmacist in immunization*. Pharmacy Board of Australia. Guidelines for dispensing of medicines.

Block Policies:

Code of conduct

Please refer to LIMU code of ethics <http://limu.edu.ly/images/11/ethcode.pdf>

Academic integrity

Please be aware that cheating, plagiarism, in-class disruption and dishonesty are vigorously prosecuted and that LIMU has a zero-tolerance policy.