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**List of New Acquisitions
October 2023**

Bibliography

Sorted by Call Number / Author.

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|--------------------------|--|
| CIR QD 31.3 .O94c14 2022 | Overby, Jason. <u>Chemistry</u> . New York, NY : McGraw-Hill, c2022.
"The fourteenth edition continues a long tradition of providing a firm foundation in the concepts of chemical principles while instilling an appreciation of the important role chemistry plays in our daily lives. We believe that it is our responsibility to assist both instructors and students in their pursuit of this goal by presenting a broad range of chemical topics in a logical format. At all times, we strive to balance theory and application and to illustrate principles with applicable examples whenever possible"-- Provided by publisher. |
| CIR QD 33.2 .B87i3 2024 | Burdge, Julia. <u>Introductory chemistry : an atoms first approach</u> . 3rd ed. New York, NY : McGraw-Hill Education, c2024.
"Introductory Chemistry: An Atoms First Approach by Julia Burdge and Michelle Driessen has been developed and written using an atoms first approach specific to introductory chemistry. It is a carefully crafted text, designed and written with the introductory chemistry student in mind"-- Provided by publisher. |
| CIR QD 33.2 .S55c10 2024 | Silberberg, Martin S. <u>Chemistry : the molecular nature of matter and change</u> . 10th ed. New York, NY : McGraw-Hill Education, c2024.
"In this edition, chemistry is so crucial to an understanding of medicine and biology, environmental science, and many areas of engineering and industrial processing that it has become a requirement for an increasing number of academic majors. Furthermore, chemical principles lie at the core of some of the key societal issues we face in the 21st century-dealing with climate change, finding new energy options, and supplying nutrition and curing disease on an ever more populated planet"-- Provided by publisher. |
| CIR QD 75.2 .H65f10 2022 | Holler, F. James. <u>Fundamentals of analytical chemistry</u> . 10th ed. Belmont, CA : Cengage - Brooks/Cole, c2022. |
| CIR QD 79.15 .R63i 2021 | Robinson, James W. <u>Instrumental analytical chemistry : an introduction</u> . Boca Raton, FL : CRC Press, c2021.
"This book includes the fundamental principles, techniques, applications, and descriptions of instrumentation. The scope of the book covers just what is needed for an undergraduate course and is suitable for non chemistry majors. Extensive references for further research on the topic is included"-- Provided by publisher. |
| CIR QH 83 .P38b 2021 | Pavlinov, Igor Ya. <u>Biological systematics : history and theory</u> . Boca Raton, FL : CRC Press, c2021. |
| CIR QK 98 .S65s 2022 | <u>The science of plants : inside their secret world</u> . American edition. New York, NY : DK, c2022. |

	The plant kingdom -- Roots -- Stems and branches -- Leaves -- Flowers - - Seed and fruits. "Explore the intricate inner workings of the plant kingdom--where seeds become shoots, and flowers become fruits--with this spectacular introduction to botany and how plants work. Stunning photography and engaging text combine to explain the intimate secrets of both the familiar and exotic, from roses and lilies to rainforest orchids, mangroves, and cacti.
CIR QM 23.2 .D35m9 2023	Dalley, Arthur F., II. <u>Moore's clinically oriented anatomy</u>. 9th ed. Philadelphia : Wolters Kluwer, c2023. Overview and Basic Concepts -- Back -- Upper Limb -- Thorax -- Abdomen -- Pelvis and Perineum -- Lower Limb -- Head -- Neck -- Summary of Cranial Nerves. "Clinically Oriented Anatomy is widely acclaimed for its comprehensive and well-written, "story-telling" text, accurate and detailed illustrations, and the relevance of its clinical correlations ("blue boxes"). -- Provided by publisher.
CIR QM 25 .V39i 2021	Vayttaden, Sharat. <u>Illustrated human anatomy : the authoritative visual guide to the human body</u>. Buffalo, New York : Richmond Hill, Ontario : Firefly Books, c2021. The integumentary system -- The skeletal system -- The muscular system -- The nervous system -- The sensory system -- The cardiovascular system -- The digestive system -- The respiratory system -- The endocrine system -- The immune system -- The urinary system -- The reproductive system. "A state-of-the-art guide to the human body that is destined to become the definitive illustrated human anatomy reference."-- Provided by publisher. This guide provides comprehensive outlines of every organ and structure in the human body. Complemented by special features that provide fascinating insights and facts, it covers anatomy, processes, common illnesses and much more. Vayttaden and Gustafson break down each system, and explain how each organ functions. -- adapted from back cover.
CIR QR 41.2 .A53n10 2022	Anderson, Denise G. <u>Nester's microbiology : a human perspective</u>. 10th Ed. New York : McGraw Hill Education, c2022. "The three authors of this edition-Denise Anderson, Sarah Salm, and Deborah Allen-may be a set of individuals with different insights and unique experiences, but their cooperative relationship defines the word "team." What drives them is a single shared goal: to create the most learning-friendly introductory microbiology textbook available. Each author carefully read all the chapters, looking for parts that could be tweaked for clarity. They did this with students in mind, suggesting simpler words where appropriate while maintaining the scientific rigor so important for today's healthcare professionals. Meanwhile, Gene Nester continued to serve as "team member emeritus," keeping an eagle eye out for updates that could be incorporated into the text. His work established the text's reputation for excellence over the decades, and it lives on in this edition"-- Provided by publisher.
CIR QR 41.2 .C59m6 2021	Cowan, M. Kelly. <u>Microbiology : a systems approach</u>. 6th ed. New York, NY : McGraw-Hill Education, c2021. The main themes of microbiology -- The chemistry of biology -- Tools of the laboratory : methods for the culturing and microscopic analysis of -- Microorganisms -- Bacteria and archaea -- Eukaryotic cells and microorganisms -- An introduction to the viruses -- Microbial nutrition, ecology, and growth -- Microbial metabolism : the chemical crossroads of life -- Microbial genetics -- Genetic engineering and recombinant DNA -- Physical and chemical control of microbes -- Antimicrobial treatment -- Microbe-human interactions : health and disease -- Host defenses I : overview and nonspecific defenses -- Host defenses II : specific immunity and immunization. Disorders in immunity -- Diagnosing infections -- Infectious diseases affecting the skin and eyes - - Infectious diseases affecting the nervous system -- Infectious diseases affecting the cardiovascular and lymphatic systems -- Infectious diseases affecting the respiratory system -- Infectious diseases affecting the gastrointestinal tract -- Infectious diseases affecting the genitourinary

	system -- Microbes and the environment -- Applied microbiology and food and water safety.
CIR QR 46 .M87m9 2021	Murray, Patrick R. <u>Medical microbiology</u> . 9th ed. Edinburgh ; New York : Elsevier, Inc, c2021.
	<u>Schaechter's mechanisms of microbial disease</u> . 6th ed. Philadelphia : Wolters Kluwer, c2022. "This textbook is intended to be used in courses on medical microbiology or infectious diseases for medical students, allied health professionals, graduate students, or advanced undergraduates. Because the purpose of this book is to develop a conceptual framework for understanding infection, it highlights certain agents and diseases of special biological or clinical importance and does not attempt to describe the microbial world in an exhaustive fashion"-- Provided by publisher.
CIR QR 46 .S33 2022	Kleyn, John G. <u>Microbiology experiments : a health science perspective</u> . New York, NY : McGraw Hill LLC, c2022. "A microbiology laboratory is valuable because it actually gives you a chance to see and study microorganisms firsthand. In addition, it provides you with the opportunity to learn the special techniques used to study and identify these organisms. The ability to make observations, record data, and analyze results is useful throughout life. It is very important to read the scheduled exercises before coming to class so that class time can be used efficiently. It is helpful to ask yourself the purpose of each step as you are reading and carrying out the steps of the experiment. Sometimes it will be necessary to read an exercise several times before it makes sense. Conducting experiments in microbiology laboratories is particularly gratifying because the results can be seen in a day or two (as opposed, for instance, to plant genetics laboratories, which can take months). Opening the incubator door to see how your cultures grew and the results of the experiment is a pleasurable moment. We hope you enjoy your experience with microorganisms as well as acquire laboratory and critical thinking skills that will be valuable in the future"-- Provided by publisher.
CIR QR 63 .K54m 2022	
CIR QR 63 .P65I5 2018	Pollack, Robert A. <u>Laboratory exercises in microbiology</u> . Hoboken, NJ : Wiley, c2018.
	Delost, Maria Dannessa. <u>Introduction to diagnostic microbiology for the laboratory sciences</u> . 2nd ed. Burlington, MA : Jones & Bartlett Learning, c2022. Taxonomy, the Microbial Cell, Metabolism, and Genetics -- Safety in the Clinical Microbiology Laboratory -- Host and Microorganism Interactions -- Specimen Collection and Management -- Microscopy, Staining, and Direct Examination of Specimens -- Traditional Culture and Identification -- Immunochemical and Molecular Methods -- Antimicrobial Agents and Susceptibility Testing -- Staphylococci and Other Catalase-Positive Gram-Positive Cocci -- Streptococcus, Enterococcus, and Related Organisms -- Neisseria -- Enterobacteriaceae -- Nonfermentative Gram-Negative Bacilli and Similar Bacteria -- Vibrio, Aeromonas, Campylobacter, & Similar Organisms -- Haemophilis, HACEK, Legionella, Bordetella and other Fastidious Gram-Negative Bacilli -- Gram-Positive Bacilli -- Spirochetes -- Anaerobes -- Mycobacterium -- Chlamydia, Rickettsia, Mycoplasma and Similar Organisms -- Introduction to Medical Mycology -- Introduction to Medical Parasitology -- Introduction to Virology -- Clinical Specimens. "Introduction to Diagnostic Microbiology for the Laboratory Sciences provides a concise study of clinically significant microorganisms for the medical laboratory student and laboratory practitioner. This text provides microbiology content for the Microbiology Lab Technician program, which includes metabolism and genetics, safety in the clinical microbiology laboratory, specimen collection and management, host and microorganism interactions, and more"-- Provided by publisher.
CIR QR 67 .D45i2 2022	
CIR RB 37 .B39b6 2023	Baynes, John W. <u>Medical biochemistry</u> . 6th ed. [Amsterdam] : Elsevier,

c2023.

Section 1: Introduction. Biochemistry and clinical medicine: Introduction and overview - Section 2: Molecules and cells. Amino acids and proteins -- Carbohydrates and lipids -- Membranes and transport - Section 3: Metabolism. oxygen transport -- Catalytic proteins: enzymes - - Vitamins and minerals -- Bioenergetics and oxidative metabolism -- Glycolysis and the pentose phosphate pathway -- The tricarboxylic acid cycle -- Fatty acid and triglyceride catabolism -- Biosynthesis and storage of carbohydrate -- Biosynthesis and storage of fatty acids -- Biosynthesis of cholesterol and steroids -- Biosynthesis and degradation of amino acids -- Biosynthesis and degradation of nucleotides -- Complex carbohydrates: glycoproteins -- Complex lipids -- The extracellular matrix - Section 4: Molecular basis of inheritance. Deoxyribonucleic acid -- Ribonucleic acid -- Protein synthesis and turnover -- Regulation of gene expression: basic mechanisms -- Genomics, proteomics, and metabolomics - Section 5: Signalling and growth. Membrane receptors and signal transduction - Neurotransmitters -- Biochemical endocrinology -- Cellular homeostasis: cell growth and cancer - Aging - Section 6: Fuels, nutrients and minerals. Digestion and absorption of nutrients: the gastrointestinal -- Glucose homeostasis and fuel metabolism: diabetes mellitus -- Nutrients and diets -- Lipoprotein metabolism and atherogenesis -- Section 7: Specialized tissues and their function. Role of the liver in metabolism -- Water and electrolytes homeostasis -- The lung and the regulation of hydrogen ion concentration (Acid-base balance) -- Muscle: energy metabolism, contraction, and exercise -- Bone metabolism and calcium homeostasis - Neurochemistry -- Section 8: Blood and immunity. Clinical biochemistry. Blood and plasma proteins -- Hemostasis and thrombosis - - Oxidative stress and inflammation -- The immune response: innate and adaptive immunity. "Written by carefully selected global experts, practicing physicians, and educators in the various sub-disciplines of biochemistry, Medical Biochemistry, 6th Edition, offers a unique combination of research and clinical practice tailored to today's integrated courses. Covering clinically relevant topics in greater detail than other texts, this outstanding resource provides a strong overview of traditional areas in medical biochemistry along with state-of-the-art coverage of today's latest developments. You'll learn basic science concepts alongside clinical cases that describe patients likely to be encountered in clinical training, as well as how to use laboratory tests to diagnose and monitor the most important conditions. Thorough yet accessible, this clinically focused text is useful from medical school to clinical practice."-- Publisher's description.

Abali, Emine E. Biochemistry behind the symptoms. Philadelphia : Wolters Kluwer, c2024.

Shortness of Breath -- Jaundice -- Diarrhea -- Bruising -- Fatigue -- Failure to Thrive -- Developmental Delays in Infancy and Early Childhood -- Gout -- Altered Mental Status -- Obesity. "This book can serve as a companion text for many standard textbooks of biochemistry, especially in stand-alone biochemistry or foundational science lecture-based courses, it is particularly suited as a primary resource in more integrated curricula. It can also serve as an excellent review of relevant biochemistry topics for more advanced students"-- Provided by publisher. "Biochemistry Behind the Symptoms takes a problem-based approach to understanding and applying biochemistry for superior clinical outcomes. Organized around the common symptoms encountered by clinicians, this engaging text clarifies the connections between foundational science and clinical manifestations to help users form confident diagnoses throughout their clerkship and beyond. Each chapter explores the biochemical concepts behind underlying causes and demonstrates their ties to presenting symptoms through 5 realistic patient cases. Accompanying questions encourage discussion and guide users in building accurate differential diagnoses. Ideal for peer-to-peer learning environments or independent study, this practical approach strengthens users' application of fundamental knowledge and ensures the

	long-term retention essential to clinical success. 50 Patient Cases emphasize the biochemical concepts behind common patient symptoms through problem-based learning. Clinical Impression sections encourage critical thinking and train students step by step in building effective differential diagnoses. Basic Science Correlations in each Patient Case clarify the biochemical concepts underlying diagnosis with an engaging question-and-answer format. High-Yield Concepts summarized after each Patient Case reinforce students' comprehension of essential chapter concepts. Digital Animations immerse students in biochemical processes to enrich their understanding and diagnostic confidence. "-- Provided by publisher.
CIR QA 276.12 .M66i10 2021	Moore, David S. <u>Introduction to the practice of statistics</u> . 10th ed. Austin : Macmillan Learning, c2021.
CIR QD 253.2 .S45o6 2020	Smith, Janice Gorzynski. <u>Organic chemistry</u> . 6th ed. New York, NY : McGraw-Hill Education, c2020.
CIR QD 257 .A37 2023	Rueda, Joshua. <u>ACS organic chemistry study guide : ACS exam prep and practice test (includes detailed answer explanations)</u> . TPB Publishing, c2023.
CIR QD 502.5 .V35o2 2023	Valiulin, Roman A. <u>Organic chemistry : 100 must-know mechanisms</u> . 2nd ed. Berlin ; Boston : De Gruyter, c2023.
CIR QH 308.2 .B76b6 2023	Brooker, Robert J. <u>Biology</u>. 6th ed. New York, NY : McGraw Hill LLC, c2023. "Over the course of these editions, the ways in which biology is taught have dramatically changed. We have seen a shift away from the memorization of details, which are easily forgotten, and a movement toward emphasizing core concepts and critical thinking skills. The previous edition of Biology strengthened skill development by adding two new features, called CoreSKILLS and BioTIPS, which are aimed at helping students develop effective strategies for solving problems and applying their knowledge in novel situations. In this edition, we have focused our pedagogy on the five core concepts of biology as advocated by "Vision and Change". In addition to core concepts, "Vision and Change" has strongly advocated the development of core skills (also called core competencies). Those skills are emphasized in this textbook. A key goal of this textbook is to bring to life the five core concepts of biology and the core skills. These concepts and skills are highlighted in each chapter with a "Vision and Change" icon, which indicates subsections and figures that focus on one or more of them. With regard to the scientific content in the textbook, the author team has worked with faculty reviewers to refine this new edition and to update the content so that students are exposed to the most current material. In addition to new pedagogical additions involving Core Concepts, Core Skills, and Modeling Challenges, every chapter has been extensively edited for clarity, presentation, layout, readability, modifications of artwork, and new and challenging end-of-chapter questions"-- Provided by publisher.
CIR QH 315 .T84b 2020	Tveten, Michael. <u>Biology stories : 50 stories for teaching and learning biology</u>. Lanham : Rowman & Littlefield, c2020. "Biology Stories: 50 Stories for Teaching and Learning Biology is a great resource for all biology teachers, putting stories in teachers' hands that can be used in class immediately. Tying these memorable stories to the content being taught will keep students engaged and ensure they never forget the concepts"-- Provided by publisher.
CIR QH 316 .G37b3 2020	Garber, Steven D. <u>Biology : a self-teaching guide</u>. 3rd ed. Hoboken, New Jersey : Jossey Bass, c2020. "Steven D. Garber explains all the major biological concepts and terms in this newly revised edition, including the origin of life, evolution, cell biology, reproduction, physiology, and botany. The step-by-step, clearly structured format of Biology is fully accessible to students, providing an easily understood, comprehensive treatment of all aspects of life science. Like all Self-Teaching Guides, Biology helps readers build their

	knowledge at their own pace. Packed with useful, up-to-date information, this clear, concise volume is a valuable learning tool and reference for anyone who chooses to master the science of life. Prepare for exams with a self-test full of multiple choice questions, a review of key terms, and questions to think about at the end of each chapter. Questions and self-tests reinforce the information in each chapter and allow you to skip ahead or focus on specific areas of concern. In the second edition of <i>Biology: A Self-Teaching Guide</i>, you'll discover the answers to these questions and many more: * Are viruses living? * How does photosynthesis occur? * Why don't our red blood cells have nuclei? * How do tadpoles absorb their tails when they grow legs and turn into frogs? * Is cloning a form of sexual or asexual reproduction? * What is Antonie van Leeuwenhoek know for?"-- Provided by publisher.
CIR QH 324.2 .D36b 2023	Dandekar, Thomas. <u>Bioinformatics : an introductory textbook</u>. DE : Springer, c2023.
	Goldberg, Michael L. <u>Genetics from genes to genomes</u>. 7th ed. New York, NY : McGraw-Hill Education, c2021. "The science of genetics is less than 150 years old, but its accomplishments within that short time have been astonishing. Gregor Mendel first described genes as abstract units of inheritance in 1865; his work was ignored and then rediscovered in 1900. Thomas Hunt Morgan and his students provided experimental verification of the idea that genes reside within chromosomes during the years 1910-1920. By 1944, Oswald Avery and his coworkers had established that genes are made of DNA. James Watson and Francis Crick published their pathbreaking structure of DNA in 1953. Remarkably, less than 50 years later (in 2001), an international consortium of investigators deciphered the sequence of the 3 billion nucleotides in the human genome. Twentieth century genetics made it possible to identify individual genes and to understand a great deal about their functions. Today, scientists are able to access the enormous amounts of genetic data generated by the sequencing of many organisms' genomes. Analysis of these data will result in a deeper understanding of the complex molecular interactions within and among vast networks of genes, proteins, and other molecules that help bring organisms to life. Finding new methods and tools for analyzing these data will be a significant part of genetics in the twenty-first century. Our seventh edition of <i>Genetics: From Genes to Genomes</i> emphasizes both the core concepts of genetics and the cutting-edge discoveries, modern tools, and analytic methods that will keep the science of genetics moving forward. The authors of the seventh edition have worked together in revising every chapter in an effort not only to provide the most up-to-date information, but also to provide continuity and the clearest possible explanations of difficult concepts in one voice"- - Provided by publisher.
CIR QH 430 .G65g7 2021	
	Klug, William S. <u>Essentials of genetics</u>. 10th ed. Hoboken : Pearson, c2020. Introduction to genetics -- Mitosis and meiosis -- Mendelian genetics -- Modification of mendelian ratios -- Sex determination and sex chromosomes -- Chromosome mutations : variation in number and arrangement -- Linkage and chromosome mapping in eukaryotes -- Genetic analysis and mapping in bacteria and bacteriophages -- DNA structure and analysis -- DNA replication -- Chromosome structure and DNA sequence organization -- The genetic code and transcription -- Translation and proteins -- Gene mutation, DNA repair, and transposition -- Regulation of gene expression in bacteria -- Regulation of gene expression in eukariotes -- Recombinant DNA technology -- Genomics, bioinformatics, and proteomics -- The genetics of cancer -- Quantitative genetics and multifactorial traits -- Population and evolutionary genetics.
CIR QH 430 .K58e10 2020	
	Pierce, Benjamin A. <u>Genetics : a conceptual approach</u>. 7th ed. New York : Macmillan Learning, c2023.
CIR QH 430 .P54g7 2023	
	Pierce, Benjamin A. <u>Genetics essentials : concepts and connections</u>. 5th ed.
CIR QH 440 .P54g5 2021	

	Austin : Macmillan Learning, c2021.
CIR QH 581.2 .C43c3 2024	Chandar, Nalini. <u>Cell and molecular biology</u>. 3rd ed. Philadelphia : Wolters Kluwer, c2024. Stem cells and their differentiation -- Extracellular matrix and cell adhesion -- Biological membranes -- Cytoskeleton -- Organelles -- The eukaryotic genome -- DNA replication -- Transcription -- Translation -- Regulation of gene expression -- Protein trafficking -- Protein degradation -- Basic concepts of transport -- Active transport -- Glucose transport -- Drug transport -- G protein signaling -- Catalytic receptor signaling -- Steroid receptor signaling -- The cell cycle -- Regulation of the cell cycle -- Abnormal cell growth -- Cell death -- Aging and senescence.
CIR QL 363 .S35i 2022	<u>Invertebrate zoology : a tree of life approach</u>. Boca Raton, FL : Taylor & Francis, c2022. "This book presents a comprehensive overview of invertebrate organismal zoology (IZ), defining invertebrates as any multicellular organism without a backbone (excluding plants and Fungi). While there are many IZ textbooks on the market, few combine the classical anatomical information with the newer genome level DNA sequence data and evo-devo data for teaching purposes. This book documents the latest research in these areas and combines it with classical information, giving students a unique opportunity to learn the biology of these organisms"-- Provided by publisher.
CIR QL 757 .L35p2 2023	Loker, Eric S. <u>Parasitology : a conceptual approach</u>. 2nd ed. Boca Raton, FL : CRC Press, Taylor & Francis Group, c2023. "Produced amidst the still rippling effects of a pandemic and as the world experiences the increasing burden of global warming and a rapidly changing biosphere, the second edition of Parasitology: A Conceptual Approach offers a timely overview of the eukaryotic parasites affecting human health and the health of domestic and wild animals and plants. The book offers a broadly encompassing, integrative view of the phenomenon of parasitism and of the remarkable diversity of the world's parasites. This second edition has been thoroughly updated on all aspects of parasitism, including expanded sections on parasite biodiversity, parasite genomes, the interface between parasitology and disease ecology, and applications of new techniques like CRISPR and gene drives for parasite control. Key selling features: Emphasis on a distinctive integrative and conceptual approach rather than the taxon-by-taxon approach used in most parasitology books A concise, handy Rogues Gallery section that summarizes the basic biology for the most important eukaryotic parasites of humans and domestic animals, one a reader is repeatedly directed to throughout the chapters Outstanding full-color illustrations and photographs to reinforce key points The use of text boxes to set apart important topics or ideas that deserve special emphasis Provision of end-of-chapter summaries, questions to test understanding and key references for those wishing to seek further information Reference to particular URLs to highlight recent developments that often pose new and distinctive problems awaiting solution Parasitology: A Conceptual Approach is designed for an upper-level undergraduate audience, but its readability and careful explanation of underlying scientific concepts and terminology makes it appropriate for anyone seeking a broader understanding of the impact of infectious organisms on our well-being and the changes underway in the modern world"-- Provided by publisher.
CIR QM 307.2 .B56 2021	<u>Biology made easy : an illustrated study guide for students to easily learn cellular and molecular biology</u>. NEDU LLC, c2021.
CIR QP 514.2 .A23b8 2022	Abali, Emine Ercikan. <u>Biochemistry</u>. 8th ed. Philadelphia : Wolters Kluwer, c2022. Amino Acids and the Role of PH -- Protein Structure -- Globular Proteins -- Fibrous Proteins -- Enzymes -- Bioenergetics and Oxidative Phosphorylation -- Introduction to Carbohydrates -- Introduction to

Metabolism and Glycolysis -- Tricarboxylic Acid Cycle and Pyruvate Dehydrogenase Complex -- Gluconeogenesis -- Glycogen Metabolism -- Monosaccharide and Disaccharide Metabolism -- Pentose Phosphate Pathway and Nicotinamide Adenine Dinucleotide Phosphate -- Glycosaminoglycans, Proteoglycans, and Glycoproteins -- Dietary Lipid Metabolism -- Fatty Acid, Triacylglycerol, and Ketone Body Metabolism -- Phospholipid, Glycosphingolipid, and Eicosanoid Metabolism -- Cholesterol, Lipoprotein, and Steroid Metabolism -- Amino Acids : Nitrogen Disposal -- Amino Acids : Degradation and Synthesis -- Amino Acids : Conversion to Specialized Products -- Nucleotide Metabolism -- Metabolic Effects of Insulin and Glucagon -- The Feed-Fast Cycle -- Diabetes Mellitus -- Obesity -- Nutrition : Overview and Macronutrients -- Micronutrients : Vitamins -- Micronutrients : Minerals -- DNA Structure, Replication, and Repair -- RNA Structure, Synthesis, and Processing -- Protein Synthesis -- Regulation of Gene Expression -- Biotechnology and Human Disease -- Blood Clotting. "Biochemistry is the study of how our bodies utilize the nutritional substances in our diet to make building blocks, fuels, and communication molecules for our cells. It also includes the processes by which we convert chemicals within our bodies and eliminate chemicals from our bodies"-- Provided by publisher.

CIR QP 518.3 .L53m6 2023

Lieberman, Michael. Marks' basic medical biochemistry : a clinical approach. 6th ed. Philadelphia : Wolters Kluwer Health, c2023.

"It has been 5 years since the fifth edition was completed. The sixth edition has some significant organizational changes, as suggested by extensive surveys of faculty and students who used the fifth edition in their classes and studies"-- Provided by publisher.

Marine disease ecology. 1st ed. Oxford, United Kingdom ; New York : Oxford University Press, c2020.

CIR QR 106 .M37 2020

Section 1. Marine Infectious Diseases and their Ecological Roles. Chapter 1. Marine pathogen diversity and disease outcomes -- Chapter 2. Parasites in marine food webs -- Chapter 3. Disease can shape marine ecosystems -- Section 2. Drivers of Marine Disease. Chapter 4. Bacteriophage can drive virulence in marine pathogens -- Chapter 5. Climate change can drive marine diseases -- Chapter 6. Pollution can drive marine diseases -- Chapter 7. Invasions can drive marine disease dynamics -- Section 3. Disease Problems and their Management. Chapter 8. Disease outbreaks can threaten marine biodiversity -- Chapter 9. Disease ecology in marine conservation and management -- Chapter 10. Disease in fisheries and aquaculture -- Section 4. Working with Infectious Diseases. Chapter 11. Diagnosing marine diseases -- Chapter 12. Modeling marine diseases -- Chapter 13. Future directions for marine disease research. "Whether through loss of habitat or cascading community effects, diseases can shape the very nature of the marine environment. Despite their significant impacts, studies of marine diseases have tended to lag behind their terrestrial equivalents, particularly with regards to their ecological effects. However, in recent decades global research focused on marine disease ecology has expanded at an accelerating rate. This is due in part to increases in disease emergence across many taxa but can also be attributed to a broader realization that the parasites responsible for disease are themselves important members of marine communities. Understanding their ecological relationships with the environment and their hosts is critical to understanding, conserving, and managing natural and exploited populations, communities, and ecosystems. Courses on marine disease ecology are now starting to emerge and this first textbook in the field will be ideally placed to serve them. Marine Disease Ecology is suitable for graduate students and researchers in the fields of marine disease ecology, aquaculture, fisheries, veterinary science, evolution and conservation. It will also be of relevance and use to a broader interdisciplinary audience of government agencies, NGOs, and marine resource managers"-- Provided by publisher.

CIR QR 111 .M63 2019

Modern soil microbiology. 3rd ed. Boca Raton, FL : Taylor & Francis, c2019.

CIR QR 360 .F54 2021	<u>Fields virology Volume 1 Emerging viruses</u> . 7th ed. Philadelphia : Wolters Kluwer, c2021.
CIR QR 360 .F54 2022	<u>Fields virology Volume 2 DNA viruses</u> . 7th ed. Philadelphia : Wolters Kluwer, c2022.
CIR QR 360 .F54 2023	<u>Fields virology Volume 3 RNA viruses</u> . Philadelphia : Wolters Kluwer, c2023.
CIR QR 462 .M87m2 2024	Murray, Patrick R. <u>Murray's basic medical microbiology : foundations and clinical cases</u> . 2nd ed. Philadelphia, PA : Elsevier, Inc, c2024.
CIR R 860 .B66b2 2022	Bonner, Philip L. R. <u>Basic bioscience laboratory techniques : a pocket guide</u>. 2nd ed. Hoboken, New Jersey : Wiley-Blackwell, c2022. The preparation of solutions in bioscience research -- Microscopy -- Spectrophotometry -- Data analysis and presentation -- The extraction and clarification of biological material -- Electrophoresis of proteins and nucleic acids -- Chromatography -- Cell culture techniques-- Antibody-based assays (immunoassays). "Laboratory techniques are an essential part of study within the biosciences. However, the current trend towards increasing dependence on demonstrations at A level, rather than first hand laboratory experience, means that the majority of bioscience students entering higher education have poor practical skills. For example, it is often taken for granted that students can use various pieces of laboratory apparatus such as a micropipette - more often than not they have never even seen one let alone used one! Whilst there are some good laboratory books available, they tend to be used for reference and, quite simply, are not basic enough for the majority of current bioscience first years. The authors and the reviewers feel strongly that there is a real need for this book as it will focus on what the student needs to know to understand the basics, presented in a user-friendly format in terms of both content and size"-- Provided by publisher.
CIR RB 113 .N38a4 2023	Nath, Judi. <u>Applied pathophysiology : a conceptual approach</u>. 4th ed. Philadelphia, PA : Wolters Kluwer, c2023. Introduction to pathophysiology -- Altered cells and tissues -- Inflammation and tissue repair -- Altered immunity -- Infection -- Genetic and developmental disorders -- Altered cellular proliferation and differentiation -- Altered fluid and electrolyte balance -- Altered acid-base balance -- Altered neural function -- Altered mood, attention, and behavior -- Altered somatic and special sensory function -- Altered hormonal and metabolic regulation -- Altered reproductive function -- Altered ventilation and diffusion -- Altered perfusion -- Altered nutrition -- Altered elimination -- Degenerative changes in aging -- Integrated pathophysiologic concepts. "Presenting pathophysiology through the lens of body function, Applied Pathophysiology: A Conceptual Approach, 4th Edition, goes beyond memorization of facts to give students a thorough understanding of altered human function and a practical framework for applying concepts in clinical settings. By helping students understand that diseases are rarely confined to one body system, this novel approach conditions students to think like practitioners, working from symptom to cause to build an understanding of the disease process essential to successful practice. Supported by the latest clinical practices and research-based evidence, this 4th Edition has been updated to prepare students for today's changing healthcare environment. Engaging features and resources throughout the text emphasize active learning strategies and challenge students to apply their knowledge to a wide range of diseases."--Publisher's description.
FIL B 52 .R36i2 2019	Ramos, Christine Carmela R. <u>Introduction to the philosophy of the human person</u> . 2nd ed. Manila, Philippines : Rex Book Store, 2019.
FIL HF 5415 .G6e 2018	Go, Josiah. <u>Entrepreneurship : starting an enterprise having an innovation mindset</u> . Quezon City : Josiah and Go Foundation, Inc, c2018.
FIL LB 1576 .M33r 2019	Madrid, Maria Martha Manette A. <u>Reading and writing skills for 21st century learners</u> . Quezon City : The Inteligente Publishing, Inc, c2019.

FIL P 95 .S36b 2016	Santos, Bayani, Jr. <u>Basic principles and practices of effective oral communication</u> . Quezon City : The Inteligente Publishing, Inc, c2016.
FIL PE 1111 .C66f 2017	Constantino, Pamela C. <u>Filipino sa piling larangan (Akademik)</u> . Manila, Philippines : Rex Book Store, c2017.
FIL PE 1422 .U98e2 2019	Uychoco, Marikit Tara A. <u>English for academic and professional purposes</u> . Manila, Philippines : Rex Book Store, c2019.
FIL PL 5538 .S39t 2019	Sayuno, Cheeno Marlo M. <u>21st century literature from the Philippines and the world</u> . 2nd ed. Makati City, Philippines : Diwa Learning Systems, Inc, c2019.
FIL PL 6054 .M34l 2022	Magpile, Christine Marie L. <u>LIRIP: pagbasa at pagsusuri sa Filipino tungo sa pananaliksik</u> . Quezon City : The Inteligente Publishing, Inc, c2022.
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Prepared by:

VILMA L. D EGUZMAN, RL, MLIS
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