



Lippincott Williams & Wilkins Curriculum for Phlebotomy Programs

This guide briefly describes the typical requirements for a Phlebotomy educational program in the United States. However, requirements can vary greatly state by state. You should supplement the information found in this guide by researching your state's individual requirements. Information to help you is included within.

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I. OVERVIEW

Career Description, Professional Roles, and Responsibilities

Phlebotomists are health care professionals who draw blood from patients or blood donors for medical testing. They also help prepare and process the tests. Phlebotomists work in hospitals, HMO's, home health agencies, clinics, large medical offices, and blood banks. Phlebotomist duties and responsibilities may vary from state to state and workplace to workplace. The demand for phlebotomist is increasing due to population growth and the increased number of laboratory test ordered by physicians (advances in biotechnology.)

Phlebotomist duties/responsibilities may include:

- Drawing blood from patients or donors in hospitals, blood banks, clinics, doctor offices, laboratories or similar facility for medical purposes
- Assembling equipment (such as needles, blood collection devices, gauze, tourniquet, cotton and alcohol)
- Verifying or recording identity of patient or donor
- Conversing with patient to allay fear of procedure
- Applying tourniquet to arm, locating vein, swabbing area with disinfectant, and inserting needles into vein to draw blood into collection tube. (May also prick finger instead of inserting needle)
- Labeling and storing blood container for processing
- Conducting interview, taking vital signs and testing blood samples to screen donors at a blood bank
- Being able to analyze information and make appropriate recommendations

(Source: American Medical Technologists web site: Career as a Phlebotomy Technician – www.amtl.com)

Career Employment Outlook

According to the Bureau of Labor Statistics, Phlebotomists held over 300,000 jobs in 2002. The average salary for a Phlebotomist is between \$18,000 - \$26,000 per year. Earnings vary widely and are generally influenced by experience or qualifications. Usually, the Certified Phlebotomist is paid more. (Source: US Department of Labor: Bureau of Labor Statistics Occupational Outlook Handbook and the 2002 wage and Vacancy Survey of Medical Laboratories.)

III. PROGRAM PROFILE

Purpose, Length, and Setting

Formal programs vary in length from 16 weeks to one year, resulting in a certificate or diploma, or two years, resulting in an Associate Degree. Programs include both classroom instruction and supervised clinical practice. Course work includes anatomy, physiology, introduction to laboratory practices, communication, medical terminology, phlebotomy techniques, emergency situations and CRP training.

Phlebotomist programs are offered in vocational/technical postsecondary schools, career schools/colleges, and community colleges.

Suggested Admission Criteria

Students enrolling in formal phlebotomy programs must be a high school graduate or equivalent. Certification of Health is recommended for students registering for a Phlebotomy program. Each student should have proof of Hepatitis B vaccination or a statement indicating that they have declined HBV vaccination.

Job Placement Assistance Services

Most, if not all, education programs provide job placement assistance to graduating students. It is strongly recommended, as job placement is a measure of the program's success, attractiveness to potential students, and is often part of the accreditation criteria.

A placement service may be designed solely for the Phlebotomy program or may be part of the parent institution placement services. Services often include placement, job leads, job boards, job fairs, employment agencies, referrals, preparatory instruction (resumes, interviewing, letters of recommendation, application assistance, etc.), search assistance, internships, association memberships, and agency contacts.

Instructor Profile

Instructor requirements for phlebotomy programs will depend on the accrediting body for the program.

(Example: NAACLS Standards Program Manager qualifications for program accreditation)

“Didactic faculty must hold an associate degree or higher, or 60 college credit hours from an accredited institution, or an equivalent combination of education and experience with a minimum of 30 college credit hours and 3 years of relevant teaching experience. They must also have current certification in phlebotomy or clinical laboratory science and document continuing education hours (2.0 CEUs or 20 hours) in phlebotomy, clinical laboratory science, and/or education (including computer applications) within the previous two years.”
(Source: National Accrediting Agency for Clinical Laboratory Sciences (NACCLS) Programs Approval Guide, page 49 – www.naacls.org)

Program Manager Profile

Program manager requirements for phlebotomy programs will depend on the accrediting body for the program. (Example: NAACLS Standards Program Manager qualifications for program accreditation.)

“The program director must hold a baccalaureate degree or higher and hold current certification by a nationally recognized agency for clinical laboratory science, or have formal training and current certification in phlebotomy. The program director must document continuing education hours (2.0 CEUs or 20 hours) in phlebotomy, clinical laboratory science, and/or education (including computer applications) within the previous two years. The program director must have knowledge of education and administration as well as current approval/certification procedures.”

(Source: National Accrediting Agency for Clinical Laboratory Sciences (NACCLS) Programs Approval Guide, page 49 – www.naacls.org)

Additional Information

American Society of Phlebotomy Technicians (ASPT) requires phlebotomy program length of no fewer than 200 hours of combined lecture and clinical time. Suggested course breakdown:

- Lecture: 90 hours (approximately)
- Simulated lab: 30 hours
- Clinical externship: 90 hours

(Source: American Society of Phlebotomy Technicians web site: www.aspt.org)

V. APPENDICES

Appendix A: Lippincott Williams & Wilkins Titles for Phlebotomy Curricula¹

Medical Terminology

Stedman's Medical Dictionary for Health Professions and Nursing Illustrated, 5th Edition

(ISBN: 0-7817-4426-1)

Core vocabulary resource for students, featuring over 51,000 entries and over 900 illustrations and images, most in four color. Bonus CD packaged with the dictionary, contains all the content of the dictionary including audio pronunciation for nearly all 51,000 terms.

Cohen: Medical Terminology – An Illustrated Guide, 4th Edition

(TEXT ISBN: 0-7817-3688-9)

(TEXT & WEBCT ONLINE COURSE ISBN: 0-7817-6293-6)

(TEXT & WEBCT HOSTED ONLINE COURSE ISBN: 0-7817-6316-9)

(TEXT & BLACKBOARD ONLINE COURSE ISBN: 0-7817-6294-4)

A richly illustrated medical terminology text providing extensive coverage of those terms relating to normal structure and function of the body, disorders, diagnosis and treatment. Includes back-of-the-book CD containing Stedman's pronunciation glossary and exercises.

ALSO AVAILABLE: Instructor's Resource Manual/Test Generator CD Package; online image bank. Visit: <http://connection.LWW.com/go/cohen4e>

¹ Titles current as of June 2006. Please contact your LWW sales representative for updates or revisions.

Collins: A Short Course in Medical Terminology

[\(TEXT ISBN: 0-7817-4767-8\)](#)

[\(TEXT & WEBCT ONLINE COURSE ISBN: 0-7817-7027-0\)](#)

[\(TEXT & WEBCT HOSTED ONLINE COURSE ISBN: 0-7817-8777-7\)](#)

[\(TEXT & BLACKBOARD ONLINE COURSE ISBN: 0-7817-9531-1\)](#)

This 'quick and easy' medical terminology textbook is appropriate for 1 or 2 credit courses or self-study. It presents students with an efficient and effective way to study. While brief in approach, it is sufficiently comprehensive to give users a sound understanding of terminology upon completion. Information is presented in clear study tables, with exercises and pre-quiz checklists to ensure students understand the material before moving onto the next topic.

[ALSO AVAILABLE:](#) Instructor's Resource CD-ROM (0-7817-6166-2)

Nath: Using Medical Terminology – A Practical Approach

[\(TEXT ISBN: 0-7817-4868-2\)](#)

[\(TEXT & WEBCT ONLINE COURSE ISBN: 0-7817-5973-0\)](#)

[\(TEXT & WEBCT HOSTED ONLINE COURSE ISBN: 0-7817-6317-7\)](#)

[\(TEXT & BLACKBOARD ONLINE COURSE ISBN: 0-7817-5972-2\)](#)

The most comprehensive medical terminology option in LWW's product line, this text includes detailed coverage of anatomy and physiology. Students are encouraged to use full medical terms in context from the beginning of each chapter, and gain a greater understanding by seeing, saying, writing and using the language. Designed to engage all learners (auditory, visual and kinesthetic).

[ALSO AVAILABLE:](#) Instructor's Resource CD-ROM (0-7817-5971-4)

Willis: Medical Terminology: The Language of Health Care, 2nd Edition

[\(TEXT ISBN: 0-7817-4510-1\)](#)

[\(TEXT & WEBCT ONLINE COURSE ISBN: 0-7817-5987-0\)](#)

[\(TEXT & WEBCT HOSTED ONLINE COURSE ISBN: 0-7817-6255-8\)](#)

[\(TEXT & BLACKBOARD ONLINE COURSE ISBN: 0-7817-5986-2\)](#)

A medical terminology text that teaches applied terminology, showing exactly how medical terms are used in clinical settings. Covers basic communication between health care professions and how to read physician's orders and prescriptions.

[ALSO AVAILABLE:](#) Instructor's Resource CD-ROM (0-7817-6213-8)

Willis: Medical Terminology: A Programmed Learning Approach to the Language of Health Care

(TEXT ISBN: 0-7817-6298-7)

(TEXT & WEBCT ONLINE COURSE ISBN: 0-7817-6295-2)

(TEXT & WEBCT HOSTED ONLINE COURSE ISBN: 0-7817-6315-0)

(TEXT & BLACKBOARD ONLINE COURSE ISBN: 0-7817-6296-0)

A concise, self-directed approach to studying and learning medical terminology. Geared toward efficient memorization, a sequential method of study is employed that includes diagrams, illustrations, and a programmed reinforcement and review. Features include medical record analyses, four-color illustrations and a user-friendly style. To further assist learning, a starter set of flashcards and a CD-ROM with questions and answers, illustrations, pronunciations, and chapter reviews are included.

Visit: <http://connection.lww.com/go/willisprog> for more information about the book and Instructor Ancillaries.

Medical Terminology Made Incredibly Easy! 2nd Edition

(ISBN: 1-58255-300-9)

Covers key concepts of medical terminology, including common prefixes, suffixes, and root words used in medical terms. Terms are divided by body system, and a handy miniguide identifies important anatomic terms in detailed, full-color illustrations. Contains award-winning features such as abundant illustrations and charts, memory joggers, eye-catching icons, and crossword puzzles and word scrambles to test comprehension.

Anatomy & Physiology

Cohen: Memmler's The Human Body in Health and Disease, 10th Edition

(ISBN: 0-7817-4232-3 [SOFTCOVER]; 0-7817-5171-3 [HARDCOVER])

This widely read classic is an excellent primer on normal anatomy and physiology, as well as an introduction to the human disease process. The well-organized text is presented in a manner that is easily digested and retained. Information covers normal and abnormal anatomy, physiology and pathophysiology, basic microbiology, and chemistry. Book includes bonus CD for students featuring an Interactive Human Anatomy Atlas and an audio pronunciation glossary.

ALSO AVAILABLE: Student Study Guide, Instructor's Manual, Instructor's Resource CD, test generator, transparencies; Smarthinking™ online tutoring and course assistance free to every student and instructor. Visit: <http://connection.lww.com/memmler> for more information.

Cohen & Taylor: Memmler's Structure and Function of the Human Body, 8th Edition

(ISBN: 0-7817-4233-1)

Based on Memmler's *The Human Body in Health and Disease*, this text focuses on anatomy and physiology without the content on disease. It is an excellent primer on normal anatomy and physiology, basic microbiology, and chemistry. Book includes bonus CD for students featuring an Interactive Human Anatomy Atlas and an audio pronunciation glossary.

ALSO AVAILABLE: Student Study Guide, Instructor's Manual, Instructor's Resource CD, test generator, transparencies; Smarthinking™ online tutoring and course assistance free to every student and instructor. Visit: <http://connection.lww.com/memmler> for more information.

McConnell: The Nature of Disease: Pathology for the Health Professions Publishing (12/2006)

(ISBN: 0-7817-5317-1)

Geared to allied health students and written in an engaging narrative style, this pathology text is an easy-to-read primer on the etiology and pathogenesis of human disease. This unique book provides a basic understanding of pathology without microscopic pathology and molecular biology details that health professions students do not need. Each chapter reviews normal anatomy and physiology, explains the development of common diseases, lists the major determinants of disease, presents clinical case studies, and includes end-of-chapter problem-solving questions. A bound-in CD-ROM includes animations and a 250-question quiz.

ALSO AVAILABLE: Faculty resources include a 2,000-question test bank and PowerPoint slides with lecture notes. Visit: <http://connection.lww.com> for more information.

Braun: Pathophysiology: Functional Alterations in Human Health Publishing (10/2006)

(ISBN: 0-7817-6250-2)

This pathophysiology text offers a unique conceptual approach that facilitates learning by viewing pathophysiology as health care professionals do. Students will learn about general mechanisms of disease or alterations in human function—such as immune alterations or altered nutrition—and apply these processes to specific conditions. Chapters focus on fifteen core concepts of altered human function, selected by analyzing and clustering health conditions with high prevalence, incidence, and severity. Unlike a traditional systems-based approach, this novel approach shows how most diseases involve multiple body systems. A bound-in CD-ROM includes animations and an interactive game.

ALSO AVAILABLE: Faculty resources include lesson plans, PowerPoint slides, additional case studies, and student assignment worksheets. Visit: <http://connection.lww.com> for more information.

Anatomy and Physiology Made Incredibly Easy! 2nd Edition

(ISBN: 1-58255-301-7)

Delivers the latest information on anatomy and physiology in an easy-to-understand, enjoyable style. Abundant quick-scan tables, illustrations, and flowcharts help the reader focus on key information, while memory joggers and quick quizzes aid recall and help gauge progress. Contents include an overview of cell structure and function and an in-depth exploration of the individual systems of the human body. Special chapters cover nutrition and metabolism; fluids, electrolytes, acids, and bases; and genetics. With full-color anatomical illustrations.

Pathophysiology Made Incredibly Easy! 3rd Edition

(ISBN: 1-58255-401-3)

Chapters organized by body system provide easy-to-follow pathophysiology for scores of disorders. Diagnostic test findings and current treatment complete each disorder entry. Specific chapters address cancer, infection, immune disorders, and genetics. Each chapter includes a summary of key points and features light-hearted headings and illustrations to enhance learning. Key terms, bullets, checklists, graphics, and cartoon characters call special attention to important information. New features include new mini guides on cancer pathophysiology and neuropathology, review questions in NCLEX-RN® format, chapter summaries for quick review and gene-related discoveries.

Communication

Medical Spanish Made Incredibly Easy! 2nd Edition

(ISBN: 1-58255-291-6)

Helps make learning to communicate with Spanish-speaking patients easy and fun. This handy guide covers examination and testing of all body systems, signs and symptoms, and diagnostic tests. Words and phrases associated with medication, procedures, and nutrition are also included. Appendices include bilingual patient-teaching aids, a quick reference guide to key medical terms, and a picture dictionary of common objects. Indexes appear in both English and Spanish, and basic rules of Spanish pronunciation and grammar are covered.

Phlebotomy

McCall: Phlebotomy Essentials, 3rd Edition

[\(ISBN: 0-7817-3452-5\)](#)

Provides accurate, practical information and instruction in phlebotomy procedures and techniques with a comprehensive background in theory and principles. This new edition reflects the latest NCCLS guidelines for venipuncture and skin puncture, new safety issues and equipment, NAACLS competencies, lab computerization information, legal issues, and diagnostic tests of the most current testing protocols.

McCall & Tankersley: Phlebotomy Exam Review, 2nd Edition

[\(ISBN: 0-7817-3354-5\)](#)

Phlebotomy Exam Review, Second Edition is the essential study guide to help prepare for phlebotomy training, licensing, and national certification exams. Users will encounter a comprehensive review of the most current phlebotomy theory and practice and an extensive range of exam-style questions. By providing efficient review and practice, this new edition helps to fine-tune understanding and retention of complex information and give the confidence needed for success on the exam.

Ernst: Applied Phlebotomy

[\(ISBN: 0-7817-5055-5\)](#)

This concise and efficient text was written specifically to suit the needs of short courses in blood collection. This new text organizes procedures in a step-by-step format, and covers terminology, equipment, and other aspects of blood collection on an as-needed basis in the course of the procedures.

Itatani & Shipp: Phlebotomy Best Practices: A Case Study Approach

[\(ISBN: 0-7817-7731-3\)](#)

Created to enhance students' learning in phlebotomy and suitable for use with any phlebotomy text, this new workbook includes 40 case studies to help students apply concepts, methods and techniques, and information to actual situations. The case studies presented are diverse in patient types and situations, to match the real-life situations students will face in the field.