

bachelor of science veterinary technology

Bachelor of Science Veterinary Technology: A Pathway to a Rewarding Animal Care Career

bachelor of science veterinary technology is an increasingly popular degree choice for individuals passionate about animal health and eager to work alongside veterinarians in clinical and laboratory settings. This specialized program equips students with the scientific knowledge and practical skills necessary to support veterinary care, conduct diagnostic tests, and contribute to animal welfare in a variety of environments. If you've ever wondered what it takes to become a veterinary technologist or how this degree can open doors to diverse career paths, this article will guide you through the essentials of pursuing a Bachelor of Science in Veterinary Technology.

Understanding the Bachelor of Science Veterinary Technology Degree

The Bachelor of Science Veterinary Technology degree is a four-year undergraduate program designed to prepare students for professional roles in animal health care. Unlike shorter veterinary technician diplomas or associate degrees, the bachelor's program offers a deeper dive into subjects such as animal anatomy, physiology, pharmacology, and laboratory procedures. It emphasizes both theory and hands-on experience, allowing students to develop competencies in clinical techniques, diagnostic imaging, anesthesia monitoring, and surgical assistance.

What sets the bachelor's degree apart is its comprehensive curriculum that often includes courses in animal behavior, microbiology, pathology, and even business management relevant to veterinary practice. This well-rounded education makes graduates particularly attractive to employers seeking veterinary technologists who can take on leadership roles or specialize in areas like research, laboratory diagnostics, or exotic animal care.

Core Curriculum and Skills Developed

Students enrolled in a bachelor of science veterinary technology program typically study the following key subjects:

- **Animal Anatomy and Physiology:** Understanding the biological systems of various species.
- **Veterinary Pharmacology:** Learning about medications commonly used in veterinary medicine.
- **Clinical Procedures:** Gaining hands-on experience with procedures such as venipuncture, wound care, and sample collection.
- **Diagnostic Imaging:** Using X-rays, ultrasounds, and other imaging technologies.

- **Laboratory Techniques:** Performing blood tests, urinalysis, and microbiological cultures.
- **Animal Nutrition and Behavior:** Studying dietary needs and behavioral patterns to assist in animal care.
- **Ethics and Law:** Exploring the legal and ethical considerations in veterinary practice.

Beyond technical skills, students also develop critical thinking, communication, and teamwork abilities essential for working effectively in veterinary clinics, hospitals, research labs, and animal shelters.

Career Opportunities with a Bachelor of Science Veterinary Technology

Graduating with a bachelor of science veterinary technology degree opens a variety of career avenues. Veterinary technologists often serve as the vital link between veterinarians and patients, performing diagnostic and therapeutic procedures that improve animal health outcomes.

Common Job Roles

- **Veterinary Technologist:** Assisting veterinarians in diagnosing and treating animals, conducting lab tests, and monitoring anesthesia.
- **Research Technician:** Supporting biomedical research projects involving animals, including drug development and disease studies.
- **Laboratory Animal Care Specialist:** Managing the care and welfare of animals used in scientific research.
- **Veterinary Practice Manager:** Overseeing operations, staff, and finances in veterinary clinics or hospitals.
- **Animal Shelter Technician:** Providing medical care, vaccinations, and monitoring the health of shelter animals.

With additional training or certification, graduates can specialize further in areas such as emergency and critical care, dental technology, or anesthesia.

Job Market and Salary Expectations

The demand for qualified veterinary technologists continues to grow as pet ownership rises and advancements in veterinary medicine increase the need for skilled support staff. According to the U.S. Bureau of Labor Statistics, veterinary technologists and technicians earn a median annual wage that varies by location and experience but generally falls between \$35,000 and \$50,000. Those with a bachelor's degree

and specialized skills may command higher salaries, especially in research or management roles.

Choosing the Right Bachelor of Science Veterinary Technology Program

Selecting the right program is crucial for gaining the education and credentials needed to excel. Accredited programs ensure that the curriculum meets industry standards and that graduates are eligible to take licensure or certification exams, such as the Veterinary Technician National Examination (VTNE).

Factors to Consider

- **Accreditation:** Look for programs accredited by the American Veterinary Medical Association (AVMA) or equivalent bodies in your country.
- **Clinical Experience Opportunities:** Programs that offer internships or externships provide valuable real-world experience.
- **Faculty Expertise:** Experienced instructors with veterinary or research backgrounds enhance learning.
- **Facilities:** Access to modern labs, animal hospitals, or research centers can improve training quality.
- **Online vs. On-campus:** Some programs offer hybrid or fully online courses, which can be beneficial for working students but may require in-person clinical components.

Visiting campuses, speaking with current students, and reviewing course catalogs can help you find the best fit for your goals.

The Path to Becoming a Licensed Veterinary Technologist

After earning a bachelor of science veterinary technology degree, most graduates pursue licensure or certification depending on state or national requirements. This often involves passing the VTNE, a standardized exam that tests knowledge and skills necessary for competent practice.

Licensing and Certification Steps

1. **Complete an Accredited Degree Program:** Ensure your education meets the criteria for eligibility.
2. **Apply for the VTNE:** Submit your application through the appropriate regulatory body.
3. **Pass the Examination:** Demonstrate proficiency in clinical and technical aspects of veterinary

technology.

4. ****Obtain State Licensure or Registration:**** Fulfill any additional state-specific requirements.
5. ****Maintain Certification:**** Participate in continuing education to stay current with veterinary advancements.

Licensure not only validates your expertise but also increases employability and professional credibility.

Why Pursue a Bachelor of Science Veterinary Technology?

Beyond the obvious love for animals, pursuing this degree offers a meaningful way to impact animal health and welfare. It bridges the gap between science and compassionate care, allowing graduates to contribute to medical breakthroughs, improve clinical outcomes, and educate pet owners.

For those interested in advancing their careers, a bachelor's degree in veterinary technology can serve as a stepping stone toward veterinary school, graduate studies in animal science, or specialized certifications. The blend of scientific rigor and practical application makes this program ideal for individuals who want a dynamic and fulfilling career in animal healthcare.

Whether you dream of working in a bustling veterinary clinic, a cutting-edge research lab, or a wildlife rehabilitation center, the bachelor of science veterinary technology degree provides the foundation needed to thrive in this rewarding field.

Frequently Asked Questions

What is a Bachelor of Science in Veterinary Technology?

A Bachelor of Science in Veterinary Technology is an undergraduate degree program that prepares students to become veterinary technologists, who assist veterinarians in diagnosing and treating animals, performing laboratory tests, and managing clinical procedures.

What career opportunities are available with a Bachelor of Science in Veterinary Technology?

Graduates can work as veterinary technologists in animal hospitals, research laboratories, pharmaceutical companies, animal shelters, and zoos, or pursue further education to become veterinary specialists or educators.

How long does it typically take to complete a Bachelor of Science in Veterinary Technology?

It typically takes four years of full-time study to complete a Bachelor of Science degree in Veterinary Technology, including both classroom instruction and practical clinical experience.

What subjects are covered in a Bachelor of Science in Veterinary Technology program?

The curriculum generally includes courses in animal anatomy and physiology, pharmacology, microbiology, clinical pathology, veterinary nursing, radiology, anesthesia, and animal behavior, along with hands-on clinical training.

Is licensing required after earning a Bachelor of Science in Veterinary Technology?

Yes, most regions require graduates to pass a credentialing exam, such as the Veterinary Technician National Examination (VTNE), to become a licensed or certified veterinary technologist before practicing professionally.

What skills are important for success in a Bachelor of Science in Veterinary Technology program?

Important skills include strong communication, attention to detail, compassion for animals, critical thinking, manual dexterity, and the ability to work well in a team-oriented clinical environment.

Additional Resources

Bachelor of Science Veterinary Technology: A Gateway to Advanced Animal Care Careers

bachelor of science veterinary technology programs have increasingly gained traction as the demand for skilled veterinary professionals grows worldwide. This academic pathway provides a comprehensive blend of theoretical knowledge and practical skills necessary to support veterinarians in diverse clinical and research settings. As animal healthcare becomes more sophisticated, the role of veterinary technologists expands, making the Bachelor of Science in Veterinary Technology (BSVT) a pivotal qualification for those seeking to advance in this specialized field.

Understanding the Bachelor of Science Veterinary Technology Degree

The Bachelor of Science Veterinary Technology degree is a four-year undergraduate program designed to equip students with in-depth expertise in animal health, diagnostic procedures, surgical assistance, laboratory work, and client communication. Unlike shorter veterinary technician diplomas or associate degrees, the BSVT typically offers a broader curriculum that integrates advanced biological sciences, pharmacology, and veterinary practice management.

This degree prepares graduates not only for direct animal care roles but also for leadership positions within clinics, research laboratories, and public health organizations. The comprehensive nature of the program reflects the evolving responsibilities of veterinary technologists, who must now navigate complex medical technologies and contribute to multidisciplinary teams.

Curriculum and Key Components

A typical bachelor's program in veterinary technology combines coursework and clinical experience. Core subjects often include:

- Animal Anatomy and Physiology
- Veterinary Pharmacology and Toxicology
- Clinical Pathology and Laboratory Techniques
- Radiology and Diagnostic Imaging
- Surgical Nursing and Anesthesia
- Animal Behavior and Welfare
- Veterinary Ethics and Law
- Practice Management and Client Communication

Hands-on clinical rotations or internships are integral, allowing students to apply theoretical concepts in real-world veterinary hospitals or research facilities. This blend of study ensures graduates are job-ready and capable of handling both routine and emergency cases.

Comparison with Veterinary Technician and Assistant Programs

While veterinary assistants typically receive on-the-job training or complete short certificate programs, veterinary technicians and technologists undergo formal education. The key distinction lies in the depth and scope of training. Associate degrees in veterinary technology focus on foundational clinical skills, preparing graduates to become credentialed veterinary technicians.

In contrast, the Bachelor of Science Veterinary Technology delves deeper into scientific principles and often includes research components. This advanced education opens doors to specialized roles such as laboratory animal technologist, veterinary practice manager, or positions in public health and regulatory agencies. Moreover, some BSVT graduates pursue further studies in veterinary medicine, animal science, or biomedical research.

Career Prospects and Industry Demand

The veterinary technology field is experiencing steady growth, driven by rising pet ownership, advancements in veterinary medicine, and increased emphasis on animal welfare. According to the U.S. Bureau of Labor Statistics, employment of veterinary technologists and technicians is projected to grow faster than average compared to other occupations.

Graduates holding a Bachelor of Science Veterinary Technology degree often find enhanced career opportunities and higher earning potential. They may work in:

- Small animal and large animal veterinary clinics
- Equine hospitals and specialty practices
- Veterinary research laboratories
- Pharmaceutical and biotechnology companies
- Zoos, wildlife rehabilitation centers, and aquariums
- Public health agencies involved in zoonotic disease control

The expanded knowledge base and clinical expertise gained through a BSVT program also enable graduates to assume supervisory roles and contribute to veterinary education and training.

Licensing and Certification Considerations

In many regions, becoming a licensed veterinary technician or technologist requires graduating from an accredited program and passing credentialing exams such as the Veterinary Technician National Examination (VTNE). The Bachelor of Science Veterinary Technology is often recognized as fulfilling the educational prerequisites for licensure.

Accreditation from organizations like the American Veterinary Medical Association (AVMA) ensures that the curriculum meets industry standards, which is essential for graduates aiming to achieve professional certification and licensure. This credentialing validates the competence of veterinary technologists and enhances their credibility with employers and clients alike.

Pros and Cons of Pursuing a Bachelor's in Veterinary Technology

Like any academic and career path, the Bachelor of Science Veterinary Technology has its advantages and challenges:

- **Pros:**

- Comprehensive education that opens diverse job opportunities
- Higher earning potential compared to associate degree holders
- Eligibility for advanced roles including supervisory and research positions
- Preparation for further graduate studies

- **Cons:**

- Longer duration and potentially higher tuition costs than associate programs
- Demanding coursework and clinical commitments
- Emotional and physical challenges inherent in veterinary healthcare roles

Prospective students should weigh these factors carefully against their career goals and personal circumstances.

Emerging Trends in Veterinary Technology Education

As technology reshapes the veterinary field, Bachelor of Science Veterinary Technology programs are adapting to include training on digital imaging, telemedicine, and data management systems. Some institutions offer specialties or electives in areas such as exotic animal care, veterinary oncology, or laboratory animal science.

Distance learning and hybrid models have also become more prevalent, expanding access to quality veterinary technology education. However, the necessity of hands-on clinical experience remains paramount, often necessitating partnerships with local clinics or training centers.

Furthermore, the integration of One Health concepts—linking animal, human, and environmental health—is increasingly reflected in curricula, preparing graduates to contribute to global health initiatives.

The Bachelor of Science Veterinary Technology stands as a robust academic and professional pathway, aligning with the complex and evolving demands of modern veterinary medicine. For individuals passionate about animal care and scientific inquiry, it represents a meaningful investment in a dynamic and impactful career.

[Bachelor Of Science Veterinary Technology](#)

bachelor of science veterinary technology: Principles and Practice of Veterinary Technology E-Book Margi Sirois, 2016-07-02 Now in full color, Principles and Practice of Veterinary Technology provides comprehensive coverage of the competencies every vet tech needs to know. Illustrated, step-by-step instructions emphasize the technician's role and responsibilities in each procedure, and dozens of new summary tables and boxes make it easy to find key information. Written by experienced vet tech educator Margi Sirois, this edition offers excellent preparation for clinical practice and for veterinary technician credentialing examinations. Comprehensive coverage includes the entire scope of competencies reflecting today's veterinary technology practice. 82 illustrated, step-by-step procedures include instructions for all AVMA-required psychomotor techniques. Clinical discussions of the technician's role are emphasized in every procedure. Expert authors are qualified vet tech educators who understand your needs and write in a clear, concise style. New Physical Therapy, Rehabilitation, and Complementary Medicine chapter helps you integrate physical rehabilitation, acupuncture, and herbal remedies into practice. Expanded coverage of exotics includes handling, restraint, and examination procedures for birds, reptiles, amphibians, and wildlife. Over 900 full-color photos and illustrations accurately depict specific disorders, diseases, and procedures, making these easier to learn. More tables and boxes summarize key information, to simplify the learning of complex material.

bachelor of science veterinary technology: Management of Animal Care and Use

Programs in Research, Education, and Testing Robert H. Weichbrod, Gail A. (Heidbrink)

Thompson, John N. Norton, 2017-09-07 AAP Prose Award Finalist 2018/19 Management of Animal Care and Use Programs in Research, Education, and Testing, Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program - Provides a new section on Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes, including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry. Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies Co-publishers on the second edition are: ACLAM (American College of Laboratory Animal Medicine); ECLAM (European College of Laboratory Animal Medicine); IACLAM (International Colleges of Laboratory Animal Medicine); JCLAM (Japanese College of Laboratory Animal Medicine); KCLAM (Korean College of Laboratory Animal Medicine); CALAS (Canadian Association of Laboratory Animal Medicine); LAMA (Laboratory Animal Management Association); and IAT (Institute of Animal Technology).

bachelor of science veterinary technology: *Managing the Drug Discovery Process* Susan Miller, Walter Moos, Barbara Munk, Stephen Munk, 2016-11-08 Managing the Drug Discovery Process: How to Make It More Efficient and Cost-Effective thoroughly examines the current state of pharmaceutical research and development by providing chemistry-based perspectives on biomedical research, drug hunting and innovation. The book also considers the interplay of stakeholders, consumers, and the drug firm with attendant factors, including those that are technical, legal, economic, demographic, political, social, ecological, and infrastructural. Since drug research can be a high-risk, high-payoff industry, it is important to researchers to effectively and strategically manage the drug discovery process. This book takes a closer look at increasing pre-approval costs for new drugs and examines not only why these increases occur, but also how they can be overcome to ensure a robust pharmacoeconomic future. Written in an engaging manner and including memorable insights, this book is aimed at redirecting the drug discovery process to make it more efficient and cost-effective in order to achieve the goal of saving countless more lives through science. A valuable and compelling resource, this is a must-read for all students and researchers in academia and the pharmaceutical industry. - Considers drug discovery in multiple R&D venues, including big pharma, large biotech, start-up ventures, academia, and nonprofit research institutes - Analyzes the organization of pharmaceutical R&D, taking into account human resources considerations like recruitment and configuration, management of discovery and development processes, and the coordination of internal research within, and beyond, the organization, including outsourced work - Presents a consistent, well-connected, and logical dialogue that readers will find both comprehensive and approachable

bachelor of science veterinary technology: *Veterinary Technician's Daily Reference Guide* Candyce M. Jack, Patricia M. Watson, 2014-05-20 *Veterinary Technician's Daily Reference Guide: Canine and Feline*, Third Edition provides a quick reference to all aspects of a technician's daily responsibilities in clinical practice. Retaining the tabular format for easy access, the Third Edition adds more in-depth skill descriptions, allowing the technician to reach an even higher level of care. Coverage ranges from anatomy and preventative care to diagnostic and patient care skills, pain management, anesthesia, and pharmacology. Now fully revised and updated, the book is designed to build on a veterinary technician's current knowledge, acting as a quick refresher in the daily clinic setting. A companion website offers forms and worksheets, training materials, review questions, vocabulary flashcards, links to online resources, and the figures from the book in PowerPoint. The Third Edition is an invaluable practical resource for increasing confidence and improving technical skills for veterinary technicians.

bachelor of science veterinary technology: *Assessing Essential Skills of Veterinary Technology Students* Laurie J. Buell, Lisa E. Schenkel, Sabrina Timperman, 2017-04-24 *Assessing Essential Skills of Veterinary Technology Students*, Third Edition provides students and instructors with clear guidance on how to evaluate student performance of skills required to enter the veterinary technology profession. Provides students with clear guidance on the capabilities they are expected to demonstrate and how they will be evaluated Gives instructors a standardized framework for assessing students' performance Offers tools for comparing standards of competency Covers management, pharmacology, medical nursing, anesthesia and analgesia, surgical nursing, laboratory procedures, radiography, laboratory animal care, and exotic animal nursing Includes access to a companion website with a downloadable log for recording progress

bachelor of science veterinary technology: *Principles and Practice of Veterinary Technology - E-Book* Ann Wortinger, 2022-10-18 - Thoroughly updated content throughout, including major updates to anesthesia, pain management, critical care, and infectious disease, provides the most up-to-date information in these critical areas.

bachelor of science veterinary technology: **McCurnin's Clinical Textbook for Veterinary Technicians - E-Book** Joanna M. Bassert, 2014-10-20 *McCurnin's Clinical Textbook for Veterinary Technicians - E-Book*

bachelor of science veterinary technology: **Veterinary Technician** Lvt Stephanie Holmes, 2009 *Veterinary Technician: the Animal's Nurse* is an informative, one-of-a-kind book about the veterinary technology profession. This full-color, non-fiction paperback not only provides the reader with details about the veterinary nursing field but also contains real-life, first hand experiences written by veterinary technicians. With its detailed photographs and easy-to-read descriptions of the aspects of this career, *Veterinary Technician: the Animal's Nurse* is perfect for anyone who has ever been interested or curious about working with animals.

bachelor of science veterinary technology: **Exotic Animal Medicine for the Veterinary Technician** Bonnie Ballard, Ryan Cheek, 2024-04-02 *Exotic Animal Medicine for the Veterinary Technician* Comprehensive full color textbook on common exotic species, written specifically for vet techs in classroom or clinical settings Now in its fourth edition, *Exotic Animal Medicine for the Veterinary Technician* is a comprehensive yet clear introduction to exotic animal practice for veterinary technicians in the classroom and clinical settings alike. With an emphasis on the exotic species most likely to find their way to a veterinary practice, the book offers coverage of birds, reptiles, amphibians, exotic companion mammals, and wildlife. It also features discussions of anatomy, restraint, common diseases, radiology, anesthesia and analgesia, clinical skills, surgical assisting, and parasitology. This edition offers new updates throughout, including new chapters related to critical care feeding of exotic companion mammals, reptile infectious diseases, and exotic animal rehabilitation. It also provides full-color photos, including radiographs. Designed to provide technicians with all the information necessary to confidently and competently treat exotic patients, *Exotic Animal Medicine for the Veterinary Technician* offers easy-to-follow descriptions of common procedures and techniques. A companion website delivers review questions and images from the

book in PowerPoint format. Topics covered in Exotic Animal Medicine for the Veterinary Technician include: Herpetoculture and reproduction, covering captive bred versus wild caught, quarantining, methods of sex determination, and reproductive behavior Criteria to determine water quality for fish, including pH, oxygen, temperature, chlorine and chloramine, and salinity Clinical techniques for degus, including oral (PO), subcutaneous (SC), intramuscular (IM), intraperitoneal (IP), catheter placement, and wound management Role of the veterinary technician in wildlife rehabilitation, covering clinical protocols, intake procedures, ethical considerations, and choosing treatment routes Exotic Animal Medicine for the Veterinary Technician is an essential reference for veterinary technician students, along with veterinary technicians working in an exotic practice, or veterinary technicians who work in a small animal practice where adding exotic patients is being considered.

bachelor of science veterinary technology: Veterinary Technician , 2009

bachelor of science veterinary technology: *Elsevier's Veterinary Assisting Textbook - E-Book* Margi Sirois, 2020-01-02 Master the role and responsibilities of the veterinary assistant! From respected veterinary educator Margi Sirois, Elsevier's Veterinary Assisting Textbook, 3rd Edition covers everything you need to know to pass the Approved Veterinary Assistant (AVA) exam and succeed in clinical practice. With this comprehensive textbook students will learn to assist in laboratory and radiographic procedures, properly restrain animals, set up equipment and supplies, clean and maintain practice facilities, feed and exercise patients, collect samples, handle and dispense medications, groom patients, and record keeping. Updated content reflects the latest advances in veterinary assisting procedures, and new images illustrate key tasks. - Comprehensive coverage provides details on the tasks performed by veterinary assistants, and covers everything you need to know to pass the Approved Veterinary Assistant (AVA) exam and succeed in clinical practice. - Step-by-step instructions and hundreds of full-color photographs show veterinary assisting tasks and clarify key concepts. - Information on office procedures and client relations prepares you to be involved in many of the business aspects of veterinary practice and to work closely with management staff. - Coverage of the workflow in a veterinary practice helps you understand your role as well as the roles of all the other members of the veterinary health care team. - Critical Concept boxes highlight important points and provide useful tips to improve your knowledge and skills. - A student workbook provides activities to help you apply concepts to veterinary practice, including definitions of key terms, review questions, crossword puzzles, illustration labeling, sample cases, and clinical applications. Available separately. - NEW! Completely updated content throughout reflects the latest advances in veterinary assisting procedures for improved patient service. - NEW! Fear-free handling coverage now included in Chapter 6: Animal Behavior and Restraint. - NEW! Poultry Care section added to Chapter 13: Large Animal Nursing and Husbandry. - NEW and UPDATED! Additional and revised images throughout accurately illustrate key veterinary assisting tasks.

bachelor of science veterinary technology: Front Office Management for the Veterinary Team E-Book Heather Prendergast, 2018-12-20 - NEW! Strategic Planning chapter discusses how to strategically plan for the successful future of the veterinary hospital, and will include details on growing the practice, planning the workforce, meeting consumer needs, and increasing the value of the practice. - NEW! The Leadership Team chapter discusses how leadership affects the paraprofessional staff, provides suggestions for effective leadership strategies, and methods to set expectations for employees, including attracting and retaining employees, leveraging, empowering and driving employee engagement. - NEW! Standard Operating Procedures provides a checklist of important tasks associated with that chapter that must be addressed/completed in the veterinary practice setting.

bachelor of science veterinary technology: McCurnin's Clinical Textbook for Veterinary Technicians and Nurses E-Book Joanna M. Bassert, 2021-03-05 Master all the animal care duties of a veterinary technician! McCurnin's Clinical Textbook for Veterinary Technicians and Nurses, 10th Edition provides a solid foundation in every aspect of veterinary technology, including care of small and large animals, birds, reptiles, and small mammals. Procedure boxes offer step-by-step

guidelines to performing key tasks, and use of the veterinary technician practice model helps to improve your critical thinking and decision-making skills. Written by vet tech experts Joanna Bassert, Angela Beal, and Oreta Samples, this illustrated guide prepares you for success on the Veterinary Technician National Exam (VTNE®) and in clinical practice. - 2017 winner of the William Holmes McGuffey Longevity Award (McGuffey) from the Text & Academic Authors Association (TAA), which recognizes textbooks and learning materials whose excellence has been demonstrated over time. - Case presentations provide real-life scenarios, so students can practice critical thinking and decision-making skills. - Step-by-step instructions show students how to perform dozens of procedures, making information easy to access in emergency and clinical situations. - More than 1,000 full-color photographs and line drawings depict veterinary technology concepts and techniques. - Chapter outline, learning objectives, and key terms begin each chapter, focusing study on need-to-know material. - Technician Notes highlight key points relating to the role of the veterinary technician. - Coverage of large animal care is integrated throughout the book, including medical records, dentistry, physical examination, surgical instrumentation, surgical assistance, emergency care, and euthanasia, as well as separate Large Animal chapters. - Comprehensive chapters on pharmacology, pain management, restraint, and veterinary oncology provide a broader understanding of the responsibilities of a technician. - Coverage of zoonotics is threaded throughout each chapter, describing how a disease may affect the host, how it is spread, how it is treated, and the necessary safety precautions. - Care of Birds, Reptiles, and Small Mammals chapter describes care and treatment of these increasingly popular pets. - Student workbook reinforces understanding with review questions, case presentations, and clinical applications, as well as photo-based quizzes and other student exercises. Available separately.

bachelor of science veterinary technology: Elsevier's Veterinary Assisting Textbook - E-Book
Elsevier, 2024-09-07 Prepare for the role and responsibilities of the veterinary assistant! Elsevier's Veterinary Assisting Textbook, 4th Edition, covers everything you need to know to pass the Approved Veterinary Assistant (AVA) Exam and succeed in clinical practice. NAVTA-approved guidelines help in learning to assist in laboratory and radiographic procedures, properly restraining animals, setting up equipment and supplies, cleaning and maintaining practice facilities, feeding and exercising patients, collecting samples, handling and dispensing medications, grooming patients, and record keeping. Updated content reflects the latest Fear-Free™ handling techniques and the veterinary assistant's role in helping owners through pet loss. - NEW! Hospice, Grief, and Pet Loss chapter discusses the human-animal bond, stages of grief, and other principles of the veterinary assistant's role in helping the owner through pet loss. - EXPANDED! Behavior content includes the latest Fear-Free™ handling methods. - NEW! Practice quizzes on the companion Evolve website allow you to test your understanding of key concepts. - UPDATED! Drug information covers the newest pharmacologic agents and their uses, adverse side effects, and dosage forms. - UPDATED! Infection control and vaccination coverage keeps you up to date with the latest guidelines and protocols. - Comprehensive coverage provides everything you need to prepare for the Approved Veterinary Assistant (AVA) certification exam. - Step-by-step instructions and hundreds of colorful photographs clearly break down veterinary assisting tasks and clarify essential information. - Discussion of office procedures and client relations prepares you for the business aspects of veterinary practice and how to work closely with management staff. - User-friendly features in each chapter include learning objectives, a chapter outline, and key terms, and an emphasis on the concepts you are expected to learn. - Coverage of the workflow in a veterinary practice clarifies the role of the veterinary assistant in relation to all other members of the veterinary healthcare team. - Critical Concept boxes provide useful tips to improve your knowledge and skills.

bachelor of science veterinary technology: Dictionary of Veterinary Nursing - E-Book
Denis Richard Lane, Sue Guthrie, Sian Griffith, 2016-02-24 The fourth edition of the Dictionary of Veterinary Nursing is a must-have, highly practical source of information for student and qualified veterinary nurses and for anyone working in animal care. Covering all companion animals, equine, poultry and exotic patients this is the only dictionary written specifically for veterinary nurses that

covers all aspects of the veterinary nursing curriculum. This new edition has been thoroughly updated and expanded to ensure all the information you require can be easily accessed. - Presents over 5000 concise but detailed definitions. - 27 useful appendices provide a quick reference source for frequently needed data. - Line diagrams aid learning and understanding. - More than 250 new definitions covering new diseases, chickens, rabbits, other exotics, jurisprudence and complementary therapy. - Expanded international coverage includes Australian and American diseases. - Increased focus on business terms gives insight into the running of a veterinary practice. - 11 new appendices including fluid therapy calculations, common fluids and their uses, rabbit and horse breeds and coat colours, vaccination schedules for chickens, urine crystals, reporting adverse drug reactions, general principles of toxic agents, poisons and toxins, quarantine regulations, action to take for lost/found animals.

bachelor of science veterinary technology: Assessing Essential Skills of Veterinary Technology Students Lisa E. Schenkel, Amanda Colón, Sandra Lynn Bertholf, Sabrina Timperman, Laurie J. Buell, 2024-09-18 Standardized assessment criteria covering all essential skills from the nine areas required by the American Veterinary Medical Association Committee on Veterinary Technician Education and Activities The newly revised and updated Fourth Edition of Assessing Essential Skills of Veterinary Technology Students provides a comprehensive review of the required American Veterinary Medical Association Committee on Veterinary Technician Education and Activities (AVMA CVTEA®) essential skills for completion of a veterinary technology degree. Each essential skill includes assessment criteria as well as decision-making instructions necessary to demonstrate proficiency both academically and professionally. The text is organized based on the categories provided by the AVMA CVTEA, making it easy for an instructor and students to locate the assessment criteria for a particular essential skill relative to their course. Several guidelines from veterinary organizations regarding standard of care in veterinary medicine have been updated since the publication of the previous edition, including 2018 AHA Infection Control, Prevention and Biosecurity Guidelines, 2022 AAHA Pain Management Guidelines for Dogs and Cats, 2021 AAHA/AAFP Feline Life Stages Guidelines, 2019 AAHA Canine Life Stages Guidelines, 2021 AAHA Nutrition and Weight Management Guidelines, 2023 AAHA Technician Utilization Guidelines, and others. Written by highly qualified authors, Assessing Essential Skills of Veterinary Technology Students includes assessment criteria that addresses the knowledge, decision-making capabilities, and hands-on skills for the following: Pharmacologic fundamentals of drug administration, pharmacy essentials of drug dispensing, compliance with state and federal regulation, and monitoring of therapeutic responses. Ethics, jurisprudence, and communication in veterinary management. Husbandry, nutrition, and therapeutics of common domestic species, handling and restraint, patient assessment, and dental procedures in small animals. Fundamentals of and experiences with common surgical procedures, patient management and use of anesthetic equipment, proper surgical assistance, pain management, management of surgical equipment and facilities, and perioperative management. Diagnostic laboratory procedures and management of laboratory specimens and equipment, parasitology of common domestic species and diagnostic procedures for parasite, microbiologic procedure and evaluations and necropsy procedures. Avian, exotic, small, and large animal husbandry and nursing skills. The Fourth Edition of Assessing Essential Skills of Veterinary Technology Students is an essential study resource for all undergraduate students enrolled in an AVMA CVTEA accredited veterinary technology program and an excellent teaching resource for instructors of veterinary technology courses.

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