master of science in prosthetics and orthotics

Master of Science in Prosthetics and Orthotics: Shaping the Future of Mobility

Master of science in prosthetics and orthotics is an advanced degree program that opens doors to a rewarding career dedicated to improving the quality of life for individuals with limb loss or musculoskeletal impairments. This specialized field combines healthcare, engineering, and biomechanics to design, fabricate, and fit devices that restore mobility and function. If you're passionate about blending technology with compassionate care, pursuing this master's degree could be the perfect fit.

Understanding the Master of Science in Prosthetics and Orthotics

The master's program in prosthetics and orthotics is designed to equip students with both theoretical knowledge and practical skills necessary to become certified practitioners. Unlike general medical or engineering courses, this program delves deeply into the human anatomy, biomechanics, materials science, and patient care principles specific to prosthetic limbs and orthotic devices.

What Does the Curriculum Include?

Students in this program typically study a combination of subjects such as:

- **Anatomy and Physiology:** Understanding the musculoskeletal and nervous systems is crucial for effective device design.
- **Biomechanics:** The science of movement helps practitioners tailor devices to match natural gait and motion patterns.
- **Materials Science:** Knowledge of polymers, composites, and metals enables the creation of durable yet lightweight prosthetics and orthotics.
- **Clinical Practice:** Hands-on training with patients to assess needs, fit devices, and provide rehabilitation support.
- **Design and Fabrication Techniques:** Using both traditional methods and cutting-edge technology such as CAD/CAM and 3D printing.

This comprehensive curriculum ensures graduates are prepared to meet the complex challenges involved in prosthetic and orthotic care.

The Role of a Prosthetist and Orthotist

Earning a master of science in prosthetics and orthotics prepares students to become licensed prosthetists and orthotists—healthcare professionals who specialize in creating and fitting artificial limbs (prosthetics) and supportive braces (orthotics). Their work goes far beyond mere fabrication; it involves detailed patient evaluation, customization, and follow-up to optimize device performance.

Daily Responsibilities

A typical day might include:

- Conducting patient assessments to understand mobility challenges and goals.
- Taking precise measurements and molds to ensure a perfect fit.
- Designing devices using advanced software and selecting appropriate materials.
- Collaborating with physical therapists and physicians to support rehabilitation.
- Adjusting and repairing devices as patients progress in their recovery or lifestyle changes.

This hands-on, patient-centered approach is what makes the profession deeply fulfilling for many who pursue it.

Why Pursue a Master’s Degree in This Field?

A master’s degree in prosthetics and orthotics is often essential to gain certification and licensure, which are required to practice professionally in many countries. Beyond credentials, the program offers the opportunity to develop critical clinical and technical skills that cannot be acquired through on-the-job training alone.

Career Prospects and Opportunities

Graduates can find employment in a variety of settings such as:

- Hospitals and rehabilitation centers
- Specialized prosthetic and orthotic clinics
- Research and development firms focusing on assistive technology

- Military and veteran healthcare services
- Academic institutions as educators or researchers

With an aging population and increasing incidence of diabetes and trauma-related limb loss worldwide, the demand for skilled prosthetists and orthotists continues to grow, making this a stable and impactful career choice.

Emerging Technologies in Prosthetics and Orthotics

One of the most exciting aspects of pursuing a master of science in prosthetics and orthotics today is the integration of cutting-edge technology. Advances in robotics, microprocessor-controlled joints, and biofeedback systems are revolutionizing patient outcomes.

How Technology Enhances Patient Care

Some notable innovations include:

- **3D Printing:** Rapid prototyping allows for customized devices at lower costs and faster turnaround times.
- **Smart Prosthetics:** Devices equipped with sensors and AI to mimic natural limb movement and provide real-time feedback.
- **Materials Innovation:** Use of carbon fiber and other lightweight composites that improve durability and comfort.
- **Virtual Reality (VR) and Simulation:** Helping patients adapt to new devices through immersive training environments.

Master’s programs often incorporate training on these technologies, preparing graduates to be innovators in their field.

Tips for Prospective Students

If you’re considering a master of science in prosthetics and orthotics, here are some helpful pointers:

1. **Research Accredited Programs:** Ensure the school’s curriculum meets certification standards such as those set by the American Board for Certification in Orthotics, Prosthetics &

Pedorthics (ABC) or equivalent bodies in your region.

2. **Gain Relevant Experience:** Volunteering or shadowing practitioners can offer valuable insights into the profession before committing to graduate studies.

3. **Focus on Interdisciplinary Learning:** Strong foundations in biology, engineering, and patient communication will enhance your effectiveness.

4. **Stay Updated on Technology:** Familiarity with digital design tools and emerging materials will give you a competitive edge.

5. **Develop Empathy and Communication Skills:** Since patient care is central, being able to connect and motivate individuals is just as important as technical expertise.

The Impact of Prosthetics and Orthotics on Society

Beyond individual patient care, professionals trained through a master of science in prosthetics and orthotics contribute significantly to public health and social inclusion. Restoring mobility enables amputees and individuals with disabilities to participate more fully in education, employment, and community life.

This field is also closely tied to humanitarian efforts, with many practitioners volunteering in underserved regions to provide life-changing devices at low or no cost. The sense of purpose that comes from making a tangible difference in people's lives is a powerful motivator for those drawn to this career path.

Choosing to pursue a master of science in prosthetics and orthotics is more than just an academic decision—it's a commitment to advancing human mobility and independence. With a blend of science, creativity, and compassion, graduates emerge ready to tackle one of healthcare's most dynamic and impactful specialties. If you're intrigued by the intersection of technology and patient care, this program could be the gateway to a deeply meaningful profession.

Frequently Asked Questions

What is a Master of Science in Prosthetics and Orthotics?

A Master of Science in Prosthetics and Orthotics is a graduate-level program that trains students to design, fabricate, and fit prosthetic limbs and orthotic devices to improve the mobility and quality of life for individuals with physical impairments.

What are the career prospects after completing a Master of Science in Prosthetics and Orthotics?

Graduates can work as certified prosthetists and orthotists in hospitals, rehabilitation centers, private clinics, research institutions, or start their own practice, focusing on patient care, device development, and rehabilitation.

What skills are developed during a Master of Science in Prosthetics and Orthotics program?

Students develop skills in anatomy, biomechanics, material science, clinical assessment, device design and fabrication, patient care, and rehabilitation techniques.

Is certification required after earning a Master of Science in Prosthetics and Orthotics?

Yes, most countries require practitioners to obtain certification or licensure, such as the ABC (American Board for Certification) credential, to legally practice as a prosthetist or orthotist.

What are the latest technological advancements incorporated in Prosthetics and Orthotics education?

Programs now include training on 3D printing, smart prosthetics with sensors and microprocessors, computer-aided design (CAD), and advanced materials to enhance device functionality and patient comfort.

Additional Resources

Master of Science in Prosthetics and Orthotics: Advancing Mobility Through Specialized Education

master of science in prosthetics and orthotics represents a critical academic pathway for individuals aiming to specialize in the design, fabrication, and fitting of artificial limbs and supportive orthotic devices. As healthcare continues to evolve, the demand for skilled practitioners who can improve the quality of life for individuals with physical disabilities has surged. This graduate-level degree not only equips students with the technical expertise required to craft prosthetic and orthotic solutions but also integrates research, biomechanics, and rehabilitation principles to foster innovation in patient care.

Understanding the Scope of a Master of Science in Prosthetics and Orthotics

The master’s degree in prosthetics and orthotics is a specialized program targeted at healthcare professionals, engineers, and clinicians focused on restoring or enhancing physical mobility. The program typically spans two years, combining rigorous coursework with hands-on clinical practice. It

prepares graduates to assess patient needs, develop customized devices, and collaborate with multidisciplinary teams for comprehensive rehabilitation.

What distinguishes this master's program is its interdisciplinary nature, encompassing anatomy, physiology, materials science, biomechanics, and patient-centered care. The curriculum is designed to foster both technical proficiency and empathetic patient interaction, ensuring graduates are not only skilled technicians but also advocates for individuals requiring mobility assistance.

Core Curriculum and Skill Development

A typical Master of Science in Prosthetics and Orthotics curriculum includes:

- **Biomechanics and Kinesiology:** Understanding human movement and mechanical principles to design functional devices.
- **Materials and Manufacturing Techniques:** Studying the properties of polymers, composites, and metals used in prosthetic and orthotic devices.
- **Clinical Assessment and Patient Care:** Learning how to evaluate patient anatomy and mobility challenges to tailor interventions accordingly.
- **Device Design and Fabrication:** Hands-on workshops for constructing and fitting prostheses and orthoses.
- **Rehabilitation and Outcome Measurement:** Strategies for monitoring patient progress and adjusting devices to optimize function.
- **Research Methodology:** Training in scientific methods to contribute to evidence-based advancements in the field.

This comprehensive approach ensures graduates emerge as competent professionals capable of addressing complex clinical scenarios involving limb loss or musculoskeletal impairments.

Professional Opportunities and Industry Demand

Graduates holding a master's degree in prosthetics and orthotics find themselves in a uniquely positioned career niche that blends healthcare and engineering. According to the U.S. Bureau of Labor Statistics, employment of orthotists and prosthetists is projected to grow faster than average in the coming years, fueled by an aging population, increased prevalence of diabetes and vascular diseases, and advances in prosthetic technology.

Career Paths and Settings

Graduates can pursue roles in:

- **Clinical Practice:** Working directly with patients in hospitals, rehabilitation centers, and private clinics.
- **Research and Development:** Innovating new materials, designs, and technologies to enhance device performance.
- **Education and Training:** Teaching future practitioners and contributing to academic scholarship.
- **Healthcare Administration:** Managing prosthetics and orthotics departments or programs.

The diversity of opportunities reflects the evolving nature of prosthetics and orthotics as a multidisciplinary domain.

Certification and Licensing Considerations

In many countries, including the United States, earning a Master of Science in Prosthetics and Orthotics is a prerequisite for certification by professional bodies such as the American Board for Certification in Orthotics, Prosthetics & Pedorthics (ABC). Certification ensures practitioners meet rigorous standards of competency and ethics, which is crucial for clinical credibility and patient safety.

Licensing requirements vary globally but typically demand completion of accredited educational programs combined with supervised clinical experience. These layers of regulation underscore the responsibility borne by specialists in this field.

Technological Innovations Shaping the Field

One of the most dynamic aspects of the master’s program in prosthetics and orthotics is its emphasis on integrating cutting-edge technologies. These advances are revolutionizing the design, functionality, and patient experience of prosthetic and orthotic devices.

3D Printing and Custom Fabrication

Additive manufacturing, or 3D printing, allows for unprecedented customization of prosthetic limbs and orthotic braces. Students trained in these technologies during their master’s studies gain skills in rapid prototyping, enabling quicker turnaround times and more precise anatomical fit. This innovation reduces costs and improves patient satisfaction.

Neuroprosthetics and Bionic Limbs

Emerging research into neuroprosthetics—devices that interface directly with the nervous system—is pushing the boundaries of what prosthetics can achieve. Master’s programs often incorporate modules on neurophysiology and control systems, preparing graduates to work with next-generation bionic limbs capable of intuitive movement and sensory feedback.

Smart Orthoses and Wearable Technology

Advancements in sensors, microprocessors, and wearable electronics have led to “smart” orthoses that can adapt to the wearer’s gait or provide real-time data to clinicians. Training in these areas is becoming an integral part of prosthetics and orthotics education, reflecting the field’s trend toward personalized, data-driven care.

Challenges and Considerations in Pursuing the Degree

While a Master of Science in Prosthetics and Orthotics offers rewarding career prospects, prospective students should weigh certain challenges.

Academic and Clinical Rigor

The program demands a strong commitment to both theoretical learning and practical application. Balancing coursework with clinical internships can be intense, requiring time management skills and resilience. The need to master complex anatomy alongside engineering principles can be daunting for some.

Financial and Time Investment

Graduate education in this specialty often involves significant tuition costs and a two-year full-time commitment. Students must consider the financial implications against anticipated career earnings, which can vary depending on geographic location and employment setting.

Ethical and Emotional Dimensions

Working with patients who have undergone limb loss or suffer from chronic disabilities involves emotional sensitivity and ethical responsibility. Professionals must navigate complex patient needs, expectations, and sometimes difficult rehabilitation journeys, requiring strong interpersonal skills and empathy.

The Future of Prosthetics and Orthotics Education

As healthcare technologies advance and the global population ages, the demand for well-trained prosthetists and orthotists will continue to grow. Master's programs are evolving accordingly, integrating more interdisciplinary content, virtual simulation training, and international clinical experiences.

Institutions offering the Master of Science in Prosthetics and Orthotics are increasingly collaborating with biomedical engineering departments, rehabilitation centers, and technology companies to ensure curricula remain cutting-edge and aligned with industry needs.

Aspiring professionals who pursue this degree stand at the forefront of a field dedicated to restoring mobility, independence, and dignity to millions worldwide. Their work not only involves technical craftsmanship but also contributes to the broader goals of inclusive healthcare and social participation.

In exploring the master of science in prosthetics and orthotics, it becomes clear that this specialized education plays a pivotal role in shaping the future of rehabilitative medicine—melding science, technology, and compassionate care into transformative outcomes.

Master Of Science In Prosthetics And Orthotics

master of science in prosthetics and orthotics: Life Care Planning and Case Management Across the Lifespan Tanya Rutherford-Owen, Mary Barros-Bailey, Roger O. Weed, 2023-11-23 Celebrating 25 years since its first publication, the fifth edition of this best-selling text is the most up-to-date and complete resource available on what a life care planner does, how the life care planner does it, and issues that affect the day-to-day role of a life care planner. Now featuring new material on pediatric life care planning and case management, including brachial plexus injuries and neurodevelopmental disorders, this new edition provides guidance and planning for cases across the lifespan. It begins with a series of chapters examining ten different professional specializations that often contribute to a life care plan, before providing critical information for developing life care plans for individuals with different physical, mental, and cognitive conditions including spinal cord injury, brain injury, and chronic pain. Uniquely comprehensive, the book also includes chapters on the forensic and legal context of life care planning, as well as equipment/technology, evidence-based literature/resources, and special education/special needs planning relevant to pediatric life care planning. Also including chapters dedicated to life care planning methodology and life care planning research, this is an essential resource for anyone practicing or studying life care planning or managing the needs of those requiring chronic medical care over the lifespan.

master of science in prosthetics and orthotics: Spiritual Care for Allied Health Practice Lindsay B. Carey, Bernice A. Mathisen, 2018-06-21 This textbook explains the importance of Allied Health Professionals providing spiritual care and gives applied information on how this can be done.

The first book of its kind, it is essential reading for AHPs and students in order to understand how to give holistic and patient centred care.

master of science in prosthetics and orthotics: Orthotics and Prosthetics in Rehabilitation Michelle M. Lusardi, PhD, PT, Millee Jorge, Caroline C. Nielsen, PhD, 2012-08-31 The most comprehensive physical therapy text available on the topic, Orthotics & Prosthetics in Rehabilitation, 3rd Edition is your one-stop resource for clinically relevant rehabilitation information. Evidence-based coverage offers essential guidelines on orthotic/prosthetic prescription, pre- and post-intervention gait assessment and outcome measurement, and working with special populations. Comprehensive coverage addresses rehabilitation in a variety of environments, including acute care, long-term care and home health care, and outpatient settings. Authoritative information from the Guide to Physical Therapist Practice, 2nd Edition is incorporated throughout. World Health Organization (WHO) International Classification of Function model provides consistent language and an international standard to describe and measure health and disability from a biopsychosocial perspective. Case studies present real-life scenarios that demonstrate how key concepts apply to clinical decision making and evidence-based practice. A visually appealing 2-color design and a wealth of tables and boxes highlight vital information for quick reference and ease of use. Updated photos and illustrations reflect current clinical practice. Updated chapter on Assessment of Gait focuses on clinically useful outcome measures. Updated chapter on Motor Control and Motor Learning incorporates new insights into neuroplasticity and functional recovery. NEW! Integrated chapter on Lower Extremity Orthoses assists in clinical decision making about the best options for your patients. NEW! Chapter on Athletics after Amputation explores advanced training and athletics, including running and athletic competition to enhance the quality of life for persons with amputation. NEW! Chapter on the High Risk Foot and Would Healing helps you recognize, treat, and manage wounds for the proper fit and management of the patient. NEW! Chapter on Advanced Prosthetic Rehabilitation provides more thorough rehabilitation methods beyond the early care of persons learning to use their prostheses.

master of science in prosthetics and orthotics: Orthotics and Prosthetics in Rehabilitation Michelle M. Lusardi, Caroline C. Nielsen, 2007 Whether you are a student or a clinician, if you work with patients with neuromuscular and musculoskeletal impairments, you will find this text supplies a strong foundation in and appreciation for the field of orthotics and prosthetics that will give you the critical skills you need when working with this unique client population.

master of science in prosthetics and orthotics: Peterson's Graduate Schools in the U.S. 2010 Peterson's, 2009 Shares overviews of nearly one thousand schools for a variety of disciplines, in a directory that lists educational institutions by state and field of study while sharing complementary information about tuition, enrollment, and faculties.

master of science in prosthetics and orthotics: The Parent's Crash Course in Career Planning Sharon Lynn Jones, Marcia B. Harris, 2007 From freshman orientation through senior year, this book addresses career planning: what parents and students should do. Learn about current career trends, job options, choosing a major and career, and conducting a job search to land a satisfying and rewarding job.

master of science in prosthetics and orthotics: Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity Alicia Davis, Brian Kelly, Mary Catherine Spires, 2013-12-19 Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity is a well-illustrated, state-of-the-art reference on the science and practice of post-amputation care, prosthetic restoration, and functional rehabilitation, designed to maximize patient independence and quality of life. Chapters are written by physiatrists, prosthetists, surgeons, and therapists at the University of Michigan, clinicians and teachers who work with amputees on a daily basis. Clinically oriented, it covers both lower and upper extremity restoration and rehabilitation and serves as a handy reference for busy practitioners to support sound clinical decision-making. Beginning with basic anatomy, kinesiology, and a recap of surgical decisions principles and post-operative care for amputees, the book discusses biomechanics, clinical assessment, prosthetic options, how to write a

complete and detailed prescription for the prosthesis, restoration and management of specific problems by region, and rehabilitation programs and strategies. Common medical issues such as phantom limb sensation and pain, skin problems, and sexual and psychological considerations are discussed as well. In-depth coverage of prosthetic restoration is provided for special populations such as infants, children, the elderly, athletes multi-extremity amputees, and those who have lost limbs to cancer. Chapters are written in expanded outline format for ease of use and feature numerous full-color diagrams, photos, and other illustrations. This text will guide physicians, trainees, and other members of the care team through the fundamentals of restoring function to individuals who have lost limbs or body parts. Key Features: Provides a state-of-the-art, accessible, clinical approach to post-amputation care, prosthetic restoration, and functional rehabilitation Covers both upper and lower extremities Addresses prostheses for special populations and sports and recreation Includes boxed clinical pearls at the start of each chapter, illustrated quick reference tables, and full-color photos throughout Supports clinical decision making and addresses practical questions and problems Advises on new requirements for Medicare and Medicaid patients, and includes patient education materials and sample prescription forms that can be customized for use in any clinic Outlines important information for returning to the community after amputation

master of science in prosthetics and orthotics: World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel, 2010-01-06 Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in–depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

master of science in prosthetics and orthotics: *Graduate & Professional Programs: An Overview 2014 (Grad 1)* Peterson's, 2014-01-09 Peterson's Graduate & Professional Programs: An Overview 2014 contains more than 2,250 university/college profiles that offer valuable information on graduate and professional degrees and certificates, enrollment figures, tuition, financial support, housing, faculty, research affiliations, library facilities, and contact information. This graduate guide enables students to explore program listings by field and by institution. Two-page in-depth descriptions, written by administrators at featured institutions, give complete details on the graduate study available. Readers will benefit from the expert advice on the admissions process, financial support, and accrediting agencies.

master of science in prosthetics and orthotics: Prosthetics and Orthotics Donald G. Shurr, John W. Michael, 2002 This volume provides a fundamental approach to the clinical practice of providing quality care to patients needing prosthetics and/or orthotics. The text discusses the most common problems, devices and strategies available for optimal care. Topics covered include: Methods, Materials, and Mechanics; Biomechanics of the Lower Limb; Above- and Below-Knee Amputations and Prostheses; Hip Disarticulation and Amputation; Lower Limb Orthotics; Upper-Extremity Prosthetics and Orthotics; Juvenile Amputees; and Spinal Orthotics. For certified

prosthetists and orthotists in clinical service.

master of science in prosthetics and orthotics: The Routledge Handbook of Disability Sport Science Katy Griggs, Ursina Arnet, Rienk van der Slikke, Joelle Leonie Flueck, 2025-11-14 Disability sport science is a dynamic and rapidly evolving field, with advancements occurring across a wide range of research areas. However, the unique needs of athletes with disabilities – and the theoretical and practical knowledge required to support them – are still underrepresented in the literature. The book covers current research in a wide range of sport, exercise, training and health-related topic areas related to disability sport science and identifies future research directions. Key knowledge is gleaned from research within sport, exercise, rehabilitation and medicine and is brought together in one single resource, covering both current and future relevance for researchers, students and practitioners alike. The Routledge Handbook of Disability Sport Science is the first book to offer a comprehensive and in-depth review of current and emerging topics within disability sport science and provides a complete overview of academic and professional knowledge, divided into six sections covering the following topics: Physiology Biomechanics Technology Nutrition Physical Preparation, Health and Classification Psychology Written by an international team of leading experts from academia and professional practice, the book is an essential reference for researchers, academics and students of disability sport science and related disciplines alike, as well as anyone working, or wanting to work, in disability sport.

master of science in prosthetics and orthotics: *Prosthetics and Orthotics for Physical Therapists* M. Jason Highsmith, 2025-06-17 Prosthetics and Orthotics for Physical Therapists provides physical therapy students, physical therapists, and other allied health clinicians with foundational knowledge in prosthetic and orthotic (P&O) topics. The text and its resources are efficient, impactful, and affordable, including an overview of the history of amputation, and artificial limb, prosthetic, and orthotic concepts, followed by a review of professional and educational concepts related to P&O. Prosthetics and Orthotics for Physical Therapists is divided into two sections: first, Prosthetics and second, Orthotics. The Prosthetics section includes chapters on amputation epidemiology, related surgical concepts, componentry, gait, therapy, outcomes, and dermatologic considerations, as well as lower and upper extremity amputation principles and concepts. In the Orthotics section, there is an overview of pathology, and chapters on orthotic principles primarily by body region including below and above the knee, spinal and chest, and cranial and upper extremity. Key features and benefits of the book include the concise but clinically focused topics which are supported by evidence when available, and the covering of historic concepts through to the latest topics such as osseointegration and microprocessor-controlled devices. The organization by prosthetic and orthotic divisions, the anatomic and regional body section divisions, and the special topics (i.e., history, epidemiology, education, and others) allows discrete compartmentalization of vast content. This cutting-edge new textbook is ideal for entry level clinicians in training such as physical therapists, occupational therapists, physicians, prosthetists/orthotists, or others in physical rehabilitative disciplines. Additionally, the book may serve well as a desk reference for clinicians who may not be specialized in P&O care but manage patients who utilize P&O devices.

master of science in prosthetics and orthotics: Allied Health Alex Wilde, 2006

master of science in prosthetics and orthotics: Atlas of Amputations & Limb Deficiencies, 4th edition J. Ivan Krajbich, MD, Michael S. Pinzur, MD, Benjamin K. Potter, MD, Phillip M. Stevens, Med, CPO, 2018-08-31 The leading and definitive reference on the surgical and prosthetic management of acquired and congenital limb loss. The fourth edition of the Atlas of Amputations and Limb Deficiencies is written by recognized experts in the fields of amputation surgery, rehabilitation, and prosthetics.

master of science in prosthetics and orthotics: Prosthetic-orthotic Resource Directory, 1992-1993 , 1993

master of science in prosthetics and orthotics: Orthotics Jan Bruckner, Joan Edelstein, 2024-06-01 Orthotics: A Comprehensive Clinical Approach is an innovative and comprehensive new

text that provides essential information about contemporary orthoses to guide the student and clinician in prescribing and utilizing these appliances in neuromuscular, musculoskeletal, and integumentary rehabilitation. Written by recognized authorities in the field, Joan Edelstein, MA, PT, FISPO and Jan Bruckner, PhD, PT, this is a prime resource for practitioners and clinicians. Individual chapters cover orthoses for the foot, ankle, knee, hip, trunk, neck, shoulder, elbow, wrist, and hand. Orthoses for patients with paraplegia, burns, and soft tissue contractures are detailed and illustrated. Prescription guidelines, evaluation techniques, goal setting, and training procedures are presented. Each chapter has interesting thought questions and case studies to promote clinical reasoning and problem-solving skills. A unique feature of this text is the inclusion of a point-counterpoint discussion to demonstrate how clinicians can manage the same patient in different ways. This approach inspires broader thinking about clinical management.

master of science in prosthetics and orthotics: Bulletin of Prosthetics Research , 1982

master of science in prosthetics and orthotics: Annual Report India. Ministry of Social Justice and Empowerment, 2005

master of science in prosthetics and orthotics: Masters Abstracts International , 1994

master of science in prosthetics and orthotics: Orthotics, Prosthetics, & Mobility Aids Ronald L. Gordner, 1993

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