ORTHOTICS AND PROSTHETICS — M.S.O.P. (ENTRY LEVEL)

Program director
Heather Appling

The entry-level Master of Science in Orthotics and Prosthetics (M.S.O.P.) degree is for individuals who wish to enter the profession of orthotics and prosthetics at the 2012 NCOPE-mandated level. The professional course work at this University is ten quarters, which includes a quarter of 500 hours of clinical affiliation supervised by the professional development committee.

The professional curriculum for the entry-level Master of Science in Orthotics and Prosthetics degree is designed to provide the student with the knowledge, behaviors, and skills required for entry into the clinical practice of orthotics and prosthetics residency according to NCOPE’s published 2010 standards of the profession.

Individuals who enter with a previous bachelor’s degree will be granted the Master of Science in Orthotics and Prosthetics degree upon completion of the curriculum. Individuals who enter the program without a previous bachelor’s degree will be granted a Bachelor of Science in Health Sciences degree and a Master of Science in Orthotics and Prosthetics degree upon completion of the curriculum.

Professional association
Students and graduates are eligible for membership in the American Academy of Orthotics and Prosthetics (AAOP). The objective of the association is to foster development and improvement of service and education. This organization grants student membership at a nominal cost to students of approved schools. The student is required to become a member of this association while in the program and is encouraged to read the Journal of Orthotics and Prosthetics (JPO) and attend AAOP-sponsored or AAOP-approved local or national meetings.

Professional practice requirements
Satisfactory completion of the entry-level M.S.O.P. degree curriculum requirements qualifies the student to enter an NCOPE-accredited residency site of his/her choice. After completing a twelve-month prosthetic and a twelve-month orthotic residency, or an eighteen-month combined ortho-prosthetic residency, the resident then is eligible to sit for the certification examination offered by the American Board of Certification in Orthotics and Prosthetics (ABC). Passing the ABC examination will earn a certification in orthotics (CO), a certification in prosthetics (CP), or a dual certification as a prosthetist-orthotist (CPO). In addition to the certification, and depending on the state where the certified practitioner intends to practice, it may be necessary for the student to pass a state licensure examination in order to practice his or her profession.

Clinical experience
Supervised clinical experience is obtained in a variety of settings during the program through clinical rotations and weekly grand rounds. These ongoing, weekly clinical rotations are an essential part of a student’s academic and professional requirements and prepare the student for the tenth quarter clinical affiliations required for the completion of the entry-level M.S.O.P. degree curriculum.

All clinical assignments will be made by the academic coordinator for clinical education. Because of the limited number of local facilities available, assignments cannot be made on the basis of the student’s family-marital status or personal preferences. Although the department makes an effort to accommodate the student’s preference, the student agrees to accept the clinical assignments made by the department at any of the affiliated facilities.

Program learning outcomes
In addition to the institutional learning outcomes (http://llucatalog.llu.edu/about-university/institutional-learning-outcomes), the program has set the following learning outcomes:

1. Discernment: Students exercise keen insight, progressive care, and critical judgment through careful evaluation in clinical care, skills application, and thinking throughout the profession.
2. Ethics: Students demonstrate adherence to guiding principles and recognized ethics of the profession.
3. Research: Students value and apply new technology, investigations, and knowledge to patient care and the profession through a commitment to discovery and education.
4. Diversity: Students examine the importance of embracing and serving the unmet and ever-changing needs of a diverse world.
5. Collaboration: Students participate in teamwork within and across disciplines in all aspects of the profession.

Accreditation
Accreditation for the entry-level Master of Science in Orthotics and Prosthetics degree was granted on September 23, 2013, by the National Commission on Orthotic and Prosthetic Education (NCOPE), 330 John Carlyle Street, Suite 200, Alexandria, VA 22314; telephone: 703/836-7114; website: <http://www.ncope.org/> in collaboration with the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; telephone: 727/210-2350, website: <https://www.caahep.org/>.

Admissions
Admission is based on a selective process. In addition to Loma Linda University (http://llucatalog.llu.edu/about-university/admission-policies-information/#admissionrequirements) and School of Allied Health Professions admissions requirements (http://llucatalog.llu.edu/allied-health-professions/#generalregulations), the applicant must also complete the following requirements:

- must have completed a minimum of 64 semester or 96 quarter credit units at a regionally accredited college or university
- a minimum G.P.A. of 3.0 in both science and nonscience courses.
- It is also advisable for the student to complete eighty hours of volunteer field experience at an orthotics and prosthetics facility of his or her choice, and to obtain a letter of attestation from the facility owner or clinical supervisor.

The following prerequisites and general education courses will provide the knowledge, behavior, and skills required of students in a professional curriculum in the orthotics and prosthetics program. Individuals who already have an earned bachelor’s degree in any field from a regionally

Certified practitioner intends to practice, it may be necessary for the student to complete the following requirements:

- a minimum G.P.A. of 3.0 in both science and nonscience courses.
- It is also advisable for the student to complete eighty hours of volunteer field experience at an orthotics and prosthetics facility of his or her choice, and to obtain a letter of attestation from the facility owner or clinical supervisor.

The following prerequisites and general education courses will provide the knowledge, behavior, and skills required of students in a professional curriculum in the orthotics and prosthetics program. Individuals who already have an earned bachelor’s degree in any field from a regionally
accredited institution need to complete only the prerequisites denoted with an asterisk (*).

The minimum subject admission requirements are listed below.

Note: Grades of C- and below are not transferable for credit.

**Domain 1: Religion and Humanities (20 quarter/14 semester units, minimum)**

**Humanities (14 quarter/10 semester units minimum)**

Humanities to include one history class, one philosophy class, and one class from a third area.

Choose from:

- Civilization/History
- Fine arts
- Literature
- Modern language
- Philosophy
- Performing/Visual arts (not to exceed 4 quarter units)

Additional humanities courses in the M.S.O.P. curriculum can meet the humanities requirement.

**Religion**

Religion is required only if a student attended a Seventh-day Adventist college or university for a portion of his/her prerequisites—four quarter units of religion per year. A maximum of 8 quarter units may apply toward Domain I.

**Domain 2: Scientific Inquiry and Analysis**

Encompasses both the natural and social sciences.

**Natural Sciences**—All courses are required, credits may vary

- *Human anatomy with laboratory
- *Physiology
- *Chemistry with laboratory
- *Physics with laboratory
- *Statistics

Additional courses in the M.S.O.P. curriculum can fulfill Domain 2: Natural Sciences requirements.

**Social Sciences**—Required (12 quarter/8 semester units, minimum)

General psychology

- *Growth and developmental or abnormal psychology

Additional courses in the M.S.O.P. curriculum can fulfill Domain 2: Social Sciences requirements.

**Domain 3: Communication (9 quarter/6 semester units, minimum)**

**English**

Complete sequence in English composition that meets the baccalaureate degree requirements

One course in basic communication skills (speech)

**Domain 4: Health and Wellness (3 quarter/2 semester units, minimum)**

Two activity courses in physical education

Additional courses in the M.S.O.P. curriculum can fulfill Domain 4: Health and Wellness requirements.

**Domain 5: Electives**

Courses in Domain 5: Electives can be used to meet the minimum number of units (96 quarter/64 semester units) required for admission.

- * Individuals who have received a bachelor’s degree from a regionally accredited college or university need to complete only the prerequisites denoted with an asterisk (*).

For total unit requirements for graduation, see LLU General Education Requirements (http://llucatalog.llu.edu/about-university/division-general-studies/#courserequirements.xml).

### Program requirements

#### Junior Year

**Spring Quarter**

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<td>AHRM 472</td>
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#### Senior Year

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**Autumn Quarter**

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<td>ORPR 345</td>
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ORPR 404 Materials Science in Orthotics and Prosthetics 3
ORPR 410 Orthotic and Prosthetic Clinical Rotation 1
ORPR 414 Kinesiology I 3
ORPR 439 Computers and Electronics for O&P Clinicians 3
ORPR 491 Research I 1.5

**Winter Quarter**
AH CJ 315 Psychosocial Aspects of Health Care 3
ORPR 410 Orthotic and Prosthetic Clinical Rotation 1
ORPR 430 Upper Extremity Orthotics 3
ORPR 435 Upper Extremity Prosthetics 3
ORPR 440 Bionics and Cyborg Technology 3
RELE 457 Christian Ethics and Health Care 2

**Graduate Year**

**Spring Quarter**
AH CJ 516 Clinical Imaging 3
ORPR 510 Advanced Clinical Rotations 1
ORPR 522 Self-Care Portfolio and Community Outreach 0.5
ORPR 526 Prosthetics III 3
ORPR 544 Applied Functional Neuroanatomy 3
ORPR 575 Couples, Families, and Disabilities 3
ORPR 593 Research III 3

**Summer Quarter**
AH CJ 507 Pharmacology in Rehabilitation 3
ORPR 510 Advanced Clinical Rotations 1
ORPR 518 Kinesiology II 3
ORPR 522 Self-Care Portfolio and Community Outreach 0.5
ORPR 538 Biomechatronics 3
ORPR 592 Research II 1.5
RELE 524 Bioethics and Society 3

**Autumn Quarter**
AH CJ 545 Legal and Ethical Issues in the Health Professions 3
ORPR 506 Advanced Specialty Tracks in Orthotics and Prosthetics 3
ORPR 510 Advanced Clinical Rotations 1
ORPR 522 Self-Care Portfolio and Community Outreach 0.5
ORPR 527 Orthotics III 3
ORPR 540 Rehabilitative Care in Developing Nations 3

**Winter Quarter**
ORPR 514 Clinical Affiliation 8
ORPR 522 Self-Care Portfolio and Community Outreach 0.5

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**Total Units:** 156

**Normal time to complete the program**
2 years (6 academic quarters) at LLU at the undergraduate level and 1 year (4 academic quarters) at the graduate level — full-time enrollment required.

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**Courses**

**ORPR 301. Orthotics and Prosthetics Laboratory and Technical Skills. 3 Units.**
Introduces the baseline of material and safety practice of orthotics and prosthetics design, fabrication, and repairs. Provides a solid foundational knowledge of the principles and applications of orthotics and prosthetics materials, technologies, designs, and processes associated with the manufacture of custom devices.

**ORPR 305. Orthotic Fitting Techniques. 3 Units.**
Teaches methods of biometrics, shape capture, and fitting criteria for orthotic devices. Expands knowledge and techniques of applied anatomy in the fitting of orthotic and assistive devices in activities of daily living and patient’s occupational needs.

**ORPR 310. Patient Management, Assessment, and Documentation. 3 Units.**
Orthotic and prosthetic patient-care models, patient rights, and ethical practice of care. Advanced principles and processes of patient assessment, management, and complete documentation within the context of interprofessional referrals, interactions, and reimbursement as applied both to the in- and outpatient context.

**ORPR 315. Pedorthics. 3 Units.**
Clinical application of biomechanical interventions of the ankle-foot structure as it refers to walking, medical issues of the foot, and activity levels. Applied anatomical knowledge of the foot and sports medicine within the context of shoes and shoe modifications.

**ORPR 320. Biomechanical Evaluation. 3 Units.**
Establishes orthotic and prosthetic biomechanical principles and interventions in the context of normal body mechanics and musculoskeletal pathologies. Examines how these interventions serve to maximize healing, manage pain, support movement and function. Encompasses body considerations for the kinetic effects, including gait, ADL, occupational and recreational functions.

**ORPR 323. Economics, Business Management, and Entrepreneurship. 3 Units.**
Establishes principles of economics, financial management, and law as they apply to health-care settings, including: starting a new service, reimbursement, capital and operational budgeting, reading financial statements, and cost-saving measures.

**ORPR 325. Medical Terminology. 3 Units.**
Language of medicine, including: word construction, word analysis, definitions, and the use of terms related to medical science—specifically to orthotics and prosthetics. Course information organized by body systems. Applies knowledge to documentation, interdisciplinary communication, and medical justification as it applies to orthotic and prosthetic care.

**ORPR 330. Lower Extremity Orthotics I. 3 Units.**
Studies foot and ankle-foot orthoses—including myoelectric orthoses—from an anatomical design and fabrication perspective. Effects of their application to the body kinematics and kinetic chain. Considerations for specific pathological applications, as well as awareness of implied benefits and risks. Outcome measurements for particular static and dynamic designs.
ORPR 340. Lower Extremity Prosthetics I. 3 Units.
Studies the etiology of amputations below the knee. Considers surgical and immediate postoperative issues as they relate to patient experience, prosthetic outcome, and gait. Looks at prosthetic component selection, socket, interface, and suspension designs in the context of ambulation levels and activities; and specialty applications. Examines skin and tissue physiology, both from a design and end-user perspective. Considers cost and efficiency based on component selection.

ORPR 345. Spinal Orthotics. 3 Units.
Examines the anatomy, biomechanics, and pathology of the spine. Presents fabrication, fitting, and application of various orthotic interventions in light of a critical and differential diagnosis—determining the best outcome with the most effective and comfortable fit. Includes application and proper fitting of halos and of cervical, thoraco-lumbar, and lumbar devices. Gives special consideration to design, plaster casting techniques, and CAD measurements for the management of scoliosis. Teaches student to read a standard radiograph and measure and interpret spinal deformities, and to make appropriate recommendations for orthotic management.

ORPR 402. Pathology I. 3 Units.
Fundamental mechanisms of disease, including cell injury; inflammation, repair, regeneration, and fibrosis; and vascular, cardiac, respiratory, gastrointestinal, hepatobiliary, urinary, reproductive, endocrine, and integumentary pathologies.

ORPR 404. Materials Science in Orthotics and Prosthetics. 3 Units.
Introduces the science of materials found in the body, as well as those used to support the body. Includes the composition of common orthopedic and prosthetics materials used in everyday practice. Provides an overview of mathematics, physics, movement (both simple and complex), anatomy, physiology, and thermodynamics that creates a well-rounded understanding of and rationale behind material and fabrication choices. Provides students with knowledge of chemical composition, stress-strain curves, fatigability, and other essential characteristics to be considered in orthotic and prosthetic design.

ORPR 405. Gait Analysis. 3 Units.
Observation and analysis of normal human locomotion contrasted with pathological gait, and their implications for orthotic and prosthetic interventions and care.

ORPR 410. Orthotic and Prosthetic Clinical Rotation. 1 Unit.
Assigns student to a weekly clinic, department, or specialty—with a focus on familiarization with specific orthotic and prosthetic services. Student reports to his/her cohorts in a once-a-month didactic presentation at the weekly grand rounds, which can include lectures from industry providers on the topic of choice. Site allocation determined by program director; student accountable to quarterly assigned clinical supervisor.

ORPR 414. Kinesiology I. 3 Units.
Introduces advanced kinesiology topics, including movement science dealing with the behavioral basis of motor control and motor learning from an information-processing perspective. Kinesiology from an O&P perspective focusing primarily on the lower limbs, with some introduction to upper limb involvement.

ORPR 415. Lower Extremity Orthotics II. 3 Units.
Advanced study of knee-ankle-foot orthoses, knee orthoses, hip orthoses, reciprocating gait orthoses, and standing frames from an anatomical design and fabrication perspective. Effects of their application to the body kinetic chain. Considers specific pathological applications, including implied benefits and risks. Outcome measurements for particular static and dynamic designs. Introduces CAD/CAM technologies both for image capture and fabrication.

ORPR 420. Lower Extremity Prosthetics II. 3 Units.
Studies etiology of above-the-knee amputations. Surgical and immediate postoperative considerations as they relate to patient experience, prosthetic outcome, and potential for gait. Considers prosthetic component selection, socket interface, and suspension designs in the context of ambulation levels and activities; specialty applications. Presents mechanical, hydraulic, and electronic knee-motion control. Includes cost and efficiency calculations based on component selection. Introduces CAD/CAM shape capture and fabrication considerations, with attention to mechanical and electronic alignment capture.

ORPR 425. CAD/CAM Technologies. 3 Units.
Studies applications of CAD/CAM technologies as they are used in today's clinical practice. Familiarizes the student with the most common shape/image capture systems, manipulations, and interfaces with the various central fabrication methods available in the industry. Includes use of CADs/CAMs in both orthotics and prosthetics, including foot orthoses, spinal orthoses, and cranial helmets. Prepares student to be able to store and manipulate data and familiarizes student with the technical support and fabrication process.

ORPR 430. Upper Extremity Orthotics. 3 Units.
Studies the etiology of upper limb and forequarter amputations. Considers shape capture, socket design, interface, and suspension in the context of cosmetic, body-powered, and myoelectric functional prostheses. Includes special needs adaptations for occupational and sports situations. Gives attention to the distinctions of functionality, efficacy, and cost. Studies the bionic arm and hand and the computer training that goes with this particular technology.

ORPR 439. Computers and Electronics for O&P Clinicians. 3 Units.
Basic theory of electricity, transistors, computer circuits, and computer programming. Discusses electrons, structure of the atom, resistance, capacitance, Ohm's law, and basic transistor theory. Windows programming. Includes laboratories and three programming assignments.

ORPR 440. Bionics and Cyborg Technology. 3 Units.
Examines emerging bionic technologies aimed at merging man with machine. Includes competencies and promotion of these devices in the context of scientific research and potential patient applications. Examines bionic control systems' embedded software development and associated function. Topics include proficiency in the implementation of cybernetic feedback systems in ortho-prosthetic devices.

ORPR 491. Research I. 1.5 Unit.
Introduces the scientific method in health science research. Focuses on the major steps of the research process: problem identification, literature review, conceptual framework, identification of variables, statement of hypothesis, experimental design, and analysis and presentation of data. Includes critical evaluation of research literature. Applies the research process to problems in related specific allied health fields. Develops a research proposal. Pilot-tests a research proposal. Tests procedures and data forms. Implements the research proposal in a practice setting. Prerequisite: AHCJ 471, AHCJ 472.
ORPR 505. Current Issues in Orthotics and Prosthetics. 3 Units.
Reviews and discusses concerns and current advances relating to orthotics and prosthetics, e.g., legislation, regulations, education, professional organization, interdisciplinary patient care, and reimbursement issues.

ORPR 506. Advanced Specialty Tracks in Orthotics and Prosthetics. 3 Units.
Presents the newest clinical treatment applications over the spectrum of the patient population in the field of orthotics and prosthetics.

ORPR 510. Advanced Clinical Rotations. 1 Unit.
Assigns student to a weekly clinic, department, or specialty—with a focus on familiarization with specific orthotic and prosthetic services. Under direct supervision, student provides comprehensive orthotic and prosthetic clinical care. Student reports to his/her cohort in a once-a-month didactic presentation at the weekly grand rounds, which can include lectures from industry providers on the topic of choice. Site assignment determined by program director; student accountable to quarterly assigned clinical supervisor.

ORPR 514. Clinical Affiliation. 8 Units.
Establishes a clinical affiliation with a facility that complies with ENCOPE residency standards and that has been approved by the Professional Development Committee and the EL-MSOP locally assigned site supervisor. Student completes the 500 clinical contact hours required for graduation.

ORPR 515. Topics in Orthotics and Prosthetics. 1-6 Units.
Lecture and discussion related to the practice of orthotics and prosthetics. Content varies from quarter to quarter. (May be repeated for additional credit for a maximum 6 quarter units.)

ORPR 518. Kinesiology II. 3 Units.
Examines the mechanical basis of movement in the human body in relation to the length of muscles; the tension developed by muscles under various conditions; the anatomical arrangement of the origin and insertion of the bones and joints; and the biomechanics of complex movement, such as gait and balance. Uses physics principles to explain the mechanics of movement in the body. Topics include: linear movement, rotational movement, work and energy, muscle-length tension relationships, single and multiple joint biomechanics, and gait and balance.

ORPR 522. Self-Care Portfolio and Community Outreach. .5 Units.
Inventory of self-care and process to accomplish it. Puts self-care in the context of life-long learning, relational responsibility, and social justice. Applies principles of effective community leadership engagement, locally and globally.

ORPR 526. Prosthetics III. 3 Units.
Focuses on both upper limb and lower limb amputations and prosthetic interventions. Includes the etiology of hip and transcoporectomy amputations. Surgical and immediate postoperative considerations as they relate to patient experience, prosthetic outcome, and potential for gait. Considers the care of the extreme sports-user amputee. Includes selection, socket interface, and suspension designs in the context of ambulation levels and activities' specialty applications. Examines skin and tissue physiology both from a design and an end-user perspective. Includes mechanical, hydraulic, and electronic knee-motion control. Considers cost and efficiency based on component selection. Introduces CAD/CAM shape capture, and considers fabrication with attention to mechanical and electronic alignment capture. Integrates complex cases of upper extremity prosthetics as unique methods of treatment and intervention.

ORPR 527. Orthotics III. 3 Units.
Advanced study of myoelectric and electronic control to upper extremity and lower extremity orthoses from a design and fabrication perspective. Effects of their application to the body kinetic chain. Considerations for specific pathological applications; awareness of implied benefits and risks. Studies outcome measurements for particular static, dynamic, and electrodynamic designs, including EFS.

ORPR 538. Biomechatronics. 3 Units.
Development of competencies in biomechatronics. Bionic technology, embedded design programming, and fabrication. Robotic actuation and senses. Advanced material use and fabrication techniques.

ORPR 540. Rehabilitative Care in Developing Nations. 3 Units.
Examines the physical rehabilitation state of affairs in developing nations. Outlines specific challenges with rehabilitation delivery from logistics, materials, and cost perspectives. Points out alternative methods to maximize rehabilitation with minimal cost.

ORPR 544. Applied Functional Neuroanatomy. 3 Units.
Evidence-based coverage of the applied functional neuroanatomy of several common adult progressive and nonprogressive neurological diseases. Emphasizes motor control, stroke, traumatic brain injury, spinal cord injury, multiple sclerosis, Parkinson's disease, Guillain-Barre syndrome, amyotrophic lateral sclerosis, and vestibular pathology. Includes literature review, lecture, discussion, and laboratory sessions.

ORPR 575. Couples, Families, and Disabilities. 3 Units.
Examines not only the effects disabilities have on couples and family systems, but also what contributions family members are making to the rehabilitation process of disabled individuals. Looks at the discourse patterns taking place within a person with a disability; within the disabled person's family and social support system; and most importantly, within the context of the individual, the family, and the medical and rehabilitation providers. Addresses the issues of human sexuality, reproduction, and disability.

ORPR 592. Research II. 1.5 Unit.
Guides and equips students as they work toward completion of their capstone research thesis, which is presented at the annual Capstone Research Day. Includes data-collection review and completion, APA-style formatting rules, data analysis with application of appropriate statistics, graphing, write up of discussion and results.

ORPR 593. Research III. 3 Units.
Culminates all research-track courses in a project comprising a master's degree thesis, a research paper, a presentation, and a poster. Includes data analysis and statistical interpretation.