

Andrews University

Seek Knowledge. Affirm Faith. Change the World.

2015 – 2016 Bulletin

School of Health Professions

Berrien Springs, Michigan 49104
www.andrews.edu 800-253-2874

Admission to Andrews University is available to any student who meets the academic and character requirements of the university and who expresses willingness to cooperate with its policies. Because Andrews University is operated by the Seventh-day Adventist Church, the majority of its students are Seventh-day Adventists. However, no particular religious commitment is required for admission; any qualified student who will be comfortable within its religious, social, and cultural atmosphere may be admitted. The university does not discriminate on the grounds of race, color, creed, disability, national or ethnic origin, sex, marital status, or handicap. On request it makes available to the public its annual financial report. To obtain a copy, contact the Office of the Vice President for Financial Administration at the address below

Every effort has been made to assure the accuracy of information in this bulletin. Students are advised, however, that bulletin provisions do not constitute a contract between a student and Andrews University and that attendance at Andrews University is a privilege and not a right. The university faculty and administration reserve the right to make and give public notice of such changes as deemed necessary during the period for which this bulletin is in effect.

Please contact the appropriate personnel for information pertaining to schools, departments, programs, and courses. For all other bulletin inquiries you may contact the Publications & Communication Specialist in the Office of Academic Records by email at bulletin@andrews.edu or by phone at (269) 471-3233.

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Table of Contents

Program & Degree Index	5
School of Health Professions.....	6

Course Prefixes and Numbers

Courses are listed by course prefix and course number. Course prefixes are listed below in alphabetical order. At the end of each prefix designation is an abbreviated symbol in parentheses for the school in which the prefix occurs. Symbols are as follows:

College of Arts and Sciences (CAS)		School of Business Administration (SBA)		School of Health Professions (SHP)	
School of Architecture, Art & Design (SAAD)		School of Education (SED)		Seventh-day Adventist Theological Seminary (SEM)	
ACCT	Accounting (SBA)	ENGL	English (CAS)	MUCT	Music Composition & Theory (CAS)
AFLT	Aeronautical Flight	ENGR	Engineering (CAS)	MUED	Music Education (CAS)
AGRI	Agriculture	ENSL	Intensive English (CAS)	MUHL	Music History & Literature (CAS)
ALHE	Allied Health (CAS)	FDNT	Nutrition (SHP)	MUPF	Music Performance (CAS)
ANEA	Ancient Near Eastern Archaeology (SEM)	FILM	Film (SAAD)	MURE	Music—Religious (CAS)
ANSI	Animal Science	FMST	Family Studies (CAS)	NRSG	Nursing (SHP)
ANTH	Anthropology (CAS)	FNCE	Finance (SBA)	NTST	New Testament Studies (SEM)
ARCH	Architecture (SAAD)	FREN	French (CAS)	OTST	Old Testament Studies (SEM)
ART	Art Studio (SAAD)	FTES	Fitness & Exercise Studies (SHP)	PBHL	Public Health (SHP)
ARTH	Art History (SAAD)	GDPC	Graduate Psychology & Counseling (SED)	PHIL	Philosophy (CAS)
AVIA	Aviation	GEOG	Geography (CAS)	PHTH	Physical Therapy (SHP)
AVMT	Aviation Maintenance	GNST	General Studies (CAS)	PHTO	Photography (SAAD)
BCHM	Biochemistry (CAS)	GRMN	German (CAS)	PHYS	Physics (CAS)
BHSC	Behavioral Sciences (CAS)	GSEM	General Theological Seminary (SEM)	PLSC	Political Science (CAS)
BIBL	Biblical Languages (CAS)	HIST	History (CAS)	PORT	Portuguese (CAS)
BIOL	Biology (CAS)	HLED	Health Education (SHP)	PREL	Public Relations (CAS)
BSAD	Business Administration (SBA)	HONS	Honors (all undergraduate)	PSYC	Psychology (CAS)
CHEM	Chemistry (CAS)	HORT	Horticulture (CAS)	PTH	Physical Therapy – Professional & Post–Professional (SHP)
CHIS	Church History (SEM)	IDAS	International Development Admin St (CAS)	RELB	Religion—Biblical Studies (CAS)
CHMN	Christian Ministry (SEM)	IDSC	Interdisciplinary Studies (CAS)	RELG	Religion—General (CAS)
CIDS	Comm & Intl Development (CAS)	INFS	Information Systems (SBA)	RELH	Religion—History (CAS)
COMM	Communication (CAS)	INLS	International Language Studies (CAS)	RELP	Religion—Professional & Applied Studies (CAS)
CPTR	Computing & Software Engineering (CAS)	INT	Interiors (SAAD)	RELT	Religion—Theology (CAS)
DSGN	Design (SAAD)	ITLN	Italian (CAS)	SOCI	Sociology (CAS)
DSRE	Discipleship & Religious Education (SEM)	JOUR	Journalism (CAS)	SOWK	Social Work (CAS)
ECON	Economics (SBA)	LEAD	Leadership (SED)	SPAN	Spanish (CAS)
EDAL	Educational Administration & Leadership (SED)	MAED	Mathematics Education (CAS)	SPED	Special Education (SED)
EDCI	Educational Curriculum & Instruction (SED)	MATH	Mathematics (CAS)	SPPA	Speech—Language Pathology & Audiology (SHP)
EDFN	Educational Foundations (SED)	MDIA	Media (SAAD)	STAT	Statistics (CAS)
EDRM	Research & Measurement (SED)	MKTG	Marketing (SBA)	THST	Theology & Christian Philosophy (SEM)
EDTE	Teacher Education (SED)	MLSC	Medical Laboratory Sciences (SHP)		
EDUC	Education—General (SED)	MSCI	Mathematics and Science (CAS)		
		MSSN	World Mission (SEM)		

COURSE NUMBERS

Non Credit	Below 100	Courses enabling the student to qualify for freshman standing
Undergraduate Lower Division	100–199	Courses usually taken during the freshman year
	200–299	Courses usually taken during the sophomore year
Undergraduate Upper Division	300–399	Courses usually taken during the junior year
	400–499	Courses usually taken during the senior year
Graduate Level	500–699	Courses for graduate students only
	700–999	Courses for post–masters students

Program & Degree Index

School of Health Professions.....	6
Pre-Professional Program in Chiropractic	6
Pre-Professional Program in Cytotechnology.....	6
Pre-Professional Program in Health Information Management.....	6
Pre-Professional Program in Physical Therapy	6
Pre-Professional Program in Dentistry (Health Professions)	7
Pre-Professional Program in Medicine (Health Professions).....	7
Pre-Professional Program in Occupational Therapy (Health Professions).....	7
Pre-Professional Program in Physician Assistant (Health Professions).....	8
Medical Laboratory Sciences	9
Allied Health Administration BS	9
Medical Laboratory Science BSMLS	9
Medical Laboratory Science MSMLS	10
Medical Laboratory Science, Education Emphasis MSMLS	11
Medical Laboratory Science, Laboratory Leadership & Administration Emphasis MSMLS.....	12
Medical Laboratory Science, Laboratory Mission & Development Emphasis MSMLS.....	12
Medical Laboratory Science, Laboratory Science Emphasis MSMLS	13
Nursing.....	17
Nursing, BS (Completion)	17
Nursing, BS (Pre-licensure).....	18
Doctor of Nursing Practice DNP (Distance Ed)	19
Nursing, Post-MS Certificate (Distance Education)	21
Public Health, Nutrition & Wellness	25
Exercise Science BS	25
Nutrition Science & Dietetics BS	26
Wellness BHS	26
Fitness Education Minor	27
Health Minor.....	27
Nutrition and Wellness Minor.....	27
Master of Public Health, Nutrition and Wellness Concentration MPH	28
Master of Public Health/Master of Divinity Track 1 Dual Degree MPH/MDiv28	
Master of Public Health/Master of Divinity Track 2 Dual Degree MPH/MDiv30	
Graduate Certificate in Nutrition & Dietetics (Dietetic Internship)	31
Physical Therapy.....	38
Health Science, (Interim Degree) BHS.....	38
Physical Therapy DPT	38
Physical Therapy, Concentration in Orthopedic Manual Therapy DScPT	40
Physical Therapy, Concentration in Orthopedic Manual Therapy DScPT (Distance Ed).....	41
Transitional Doctor of Physical Therapy DPT	42
Transitional Doctor of Physical Therapy DPT (Distance Ed).....	42
Orthopedic Clinical Residency Program	43
Speech-Language Pathology & Audiology.....	49
Speech-Language Pathology and Audiology BS.....	49
Speech-Language Pathology BS/MS - 5 Year Track	49
Wellness, Speech-Language Pathology and Audiology Emphasis BHS	50
Speech-Language Pathology and Audiology/Spanish Studies BS/BA	51
Speech-Language Pathology and Audiology Minor.....	51
Speech-Language Pathology BS/MS - 5 Year Track	52
Speech-Language Pathology, MS	52
Transitional 3 Years MS Program	53

School of Health Professions

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Mission

To provide excellence in education for healthcare professionals that fosters collaboration, research, and service within a Christ-centered environment.

Pre-Professional Health Care Programs

The undergraduate programs in the School of Health Professions provide an excellent preparation for and bridge into medical school, dental school, and other graduate healthcare and research graduate programs. The knowledge acquired and patient-centered experience of each of our health care professional programs establishes a solid foundation for future professional growth and pursuit of career goals.

Pre-Professional

Pre-Professional Program in Chiropractic

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Chiropractic

Lee. E. Olson, Coordinator
269-471-6491
Physical Therapy Building

Entrance requirements for colleges of chiropractic vary. Students are advised to consult the admissions advisor at the chiropractic school to familiarize themselves with the requirements of the school of their choice. The admission requirements of chiropractic schools range from 60 credits to a baccalaureate degree and a minimum GPA of 2.50. For a list of the various schools contact the chiropractic coordinator. For information about the profession and publications check out the website: www.amerchiro.org.

The courses listed below at a minimum grade level of C with a cumulative GPA of at least 2.5 and 90 semester or 135 quarter credits satisfy the requirements for Palmer College of Chiropractic.

Pre-chiropractic Curriculum (semester hours)

Biology (BIOL 165 & BIOL 166 recommended)—8–10
General Chemistry—3
Chemistry Elective—3
Organic and/or Bio Chemistry—6
General Physics—6
English Composition and/or Communication Skills — 6
Introduction to Psychology — 3
Social Sciences/Humanities — 15

Pre-Professional Program in Cytotechnology

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Cytotechnology

Karen Reiner, Coordinator
269-471-3622
Halenz Hall (Science Complex)

Cytotechnology is a specialty within a broad field of clinical laboratory science. Cytotechnologists aid in the early detection of disease by differentiating normal, atypical, and malignant cells. In recognizing microscopic abnormalities of cells and cellular patterns from the various body sites, the cytotechnologist assists the pathologist in detecting cancer at its earliest and potentially most curable stage. Medical applications of cytologic techniques are constantly expanding, particularly in the diagnosis and management of the cancer patient.

Students pursuing a career in cytotechnology should complete the first two or three years (according to their selection of school for technical education) and then complete the professional courses offered at Loma Linda University or another school. For more information: www.ascp.org.

Pre-Professional Program in Health Information Management

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Health Information Management

Health Information Administrator
Karen Reiner, *Coordinator*
269-471-3622
Halenz Hall (Science Complex)

Health information management includes the development of information systems to provide optimal user access to medical records and other vital patient data. The health information administrator also manages or consults in maintenance of quality and legal standards for data used in administrative planning, research, health care quality evaluation, and financial reimbursement. For more information: www.ahima.org.

Pre-Professional Program in Physical Therapy

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Physical Therapy

Jillian Panigot, Advisor
269-471-6490
Physical Therapy Building

Andrews University offers all of the prerequisite courses necessary for admission into the Doctor of Physical Therapy (DPT) program. Students take three years (92 semester credits) of the prerequisite courses at Andrews, or any accredited U.S. college, followed by three years in the DPT program. Please see the physical therapy section of this bulletin for specific course requirements.

Other Programs

Pre-Professional Program in Dentistry (Health Professions)

Karen Reiner, 269-471-3622 (Science Complex)
Sherine Brown-Fraser, 269-471-3351 (Marsh Hall)

Preference is given to applicants who have a broad academic background with a baccalaureate degree. The minimum entrance requirement is 96 semester credits with a 2.70 GPA (C=2.00) in both science and non-science courses, although it is recommended that students should maintain an A/B average in science as well as overall. The Dental Aptitude Test (DAT) must be taken not later than October of the year preceding admission. Minimum entrance requirements for most dental schools follow. For more information, contact the American Association of Dental Schools: www.aads.jhu.edu and the American Dental Association www.ada.org.

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Required courses for applicants to Loma Linda University:

English Composition—6
Foundations of Biology—10
General Chemistry—8
Organic Chemistry—8
General Physics—8
Biochemistry—4

Recommended:

Human anatomy, biochemistry, histology, computer science, systems physiology, management and organization, fundamentals of accounting, a survey of calculus, machine shop, and religion.

Total pre-dental credits: 96

Pre-Professional Program in Medicine (Health Professions)

Students from Departments within The School of Health Professions

Karen Reiner, 269-471-3622, (Science Complex)
Sherine Brown-Fraser, 269-471-3351, (Marsh Hall)

Although allopathic (MD) and osteopathic (DO) medicine represent different philosophies of patient care, a physician in either branch of medicine is required to pass the same national board examination to practice.

Students seeking admission to medical schools are encouraged to plan a baccalaureate degree that includes courses which meet the stated entrance requirements of the medical school of their choice as listed in Medical School Admissions Requirements or the websites of the Association of American Medical Colleges: www.aamc.org and the American Association of Colleges of Osteopathic Medicine: www.aacom.org. The pre-medical student may choose any major or minor and is encouraged to become acquainted with the main bodies of knowledge as represented by the various academic disciplines.

In light of adequate preparation for the Medical College Admissions Test (MCAT) and changes in medical school requirements, students should incorporate classwork in the following areas into their curriculum:

Biochemistry
Sociology
Psychology
Statistics

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Required Courses

For Applicants to Loma Linda University School of Medicine

English Composition—6
Foundations of Biology—10
General Chemistry—8
General Physics—8
Organic Chemistry—8
Religion—9

Students should maintain an A/B average in science as well as overall.

Pre-Professional Program in Occupational Therapy (Health Professions)

Students from Departments within the School of Health Professions

Jillian Panigot, 269-471-6490, (Physical Therapy Building)

The occupational therapist helps people cope with psychological or physiological dysfunction.

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University.

Prerequisites for Loma Linda University Admission

To be eligible for admission, the applicant must have completed a minimum of 96 quarter units (64 semester units) at an accredited college or university. The following prerequisites are required and must be completed successfully with a grade of C or better. Upon successful completion of didactic and fieldwork requirements, students will graduate from LLU with a bachelor's degree in health science and a master's in occupational therapy. Students are then eligible to take the NBCOT's National OT board exam.

Prerequisites: Domain 1: Spiritual and Cultural Heritage

Religious studies, 4 quarter units per year of full-time study.
(Applies only to students attending Seventh-day Adventist colleges.)

Minimum 20 quarter units, or 14 semester units. Choose from three subject areas: fine arts, history, civilization, literature, modern language, or philosophy. English as a second language may not be included. A maximum of 4 quarter units will be accepted in applied or performing art/music.

Prerequisites: Domain 2: Scientific Inquiry and Analysis: Natural Sciences

Human Anatomy with lab

Human Physiology with lab: 2 semesters or quarters of A&P are required.

Select one additional science course from chemistry, physics or physical science.

Mathematics: Two years of HS mathematics or equivalent. Accepted courses include algebra I&II, geometry, with grades of C or better. (These credits do not transfer although they meet the math requirement.)

Completed Need Social Sciences:

Sociology

General Psychology

Human Growth & Development. (Other acceptable equivalents are Developmental Psychology, Life Cycle, or Child Psychology and Adolescent Psychology.)

Prerequisites: Domain 3: Communication (9–13 quarter units, or 6–9 semester units)

Freshman English Composition, complete sequence, as required by the college you attended or are currently attending.

Note: If you test out of any Freshman English courses, you are still required to meet the minimum number of units for this Domain.

Domain 4:

Health education (personal health or nutrition)

Two physical activities courses

Electives

Minimum requirement for entry is 96 quarter units, or 64 semester units.

Computer knowledge in the following areas is required: creating college level papers and assignments, Internet-based research, e-mail usage, PowerPoint presentations, online learning components.

Observation/Volunteer Service

40 hours of observation in occupational therapy settings. Documentation of community service performed is permissible as partial fulfillment of this requirement.

Documentation of observation and/or community service must be submitted prior to admission consideration.

CPR—infant, child and adult. BLS health care provider. We only accept CPR from American Heart Association. This certification is not needed for the admissions process, but will be required upon acceptance to the program.

Note:

A minimum grade of C is required for transfer credit. C- and D grades are not transferable.

Pre-Professional Program in Physician Assistant (Health Professions)

Students from Departments within The School of Health Professions

Sherine Brown-Fraser, 269-471-3351 (Marsh Hall)

Physician assistants (PAs), members of a health-care team, practice medicine with supervision of licensed physicians. PAs perform a wide range of medical duties from basic primary care to high-technology specialty procedures. Professional PA education offered at any one of more than 100 accredited schools is an intensive 2–3 year program. Most PA programs are moving toward requiring a bachelors degree including courses in biology, chemistry, English, humanities/social science, mathematics, and psychology. The level of the science courses varies from program to program; consequently, each school should be consulted about its prerequisite requirements. Acceptance to a professional program typically requires an extensive health-care experience such as nurse assistant, medical/X-ray lab technician, respiratory therapist, paramedic, hospital aide, and emergency medical technician.

The National Directory of PA Programs may be ordered from APAP at 950 N. Washington St., Alexandria, VA 22314 or phone: 800- 708-7581. PA programs and education can be accessed via the web: www.aapa.org.

Pre-Professional Programs

The School of Health Professions offers certain pre-professional curricula for students who plan to enter professional schools. For medical and paramedical curricula, Andrews University maintains a special relationship with Loma Linda University. Speech-Language Pathology & Audiology

Medical Laboratory Sciences

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Faculty

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Daniel F. M. González
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Tasha Simpson

Mission

The mission of the Department of Medical Laboratory Sciences, in harmony with Andrews University and the Seventh-day Adventist Church, is to prepare students for Christian service as medical laboratory scientists.

The MLS **department** encourages faculty in professional, educational and spiritual growth.

The MLS **faculty** educates students to develop excellence in the professional skills necessary for a life work of service in quality health care and dedication to improving the human condition.

MLS **graduates** will minister to the needs of others by practicing and promoting standards of excellence as medical laboratory science professionals.

Bachelors

Allied Health Administration BS

BS: Allied Health Administration

This degree is designed for health-care professionals seeking to enhance the knowledge they already have and to help them prepare for future career employment requirements. This completion degree features a strong Andrews Core Experience and administrative/business component and provides an academic foundation for health-care administrative positions. It is open only to individuals holding an associate degree or a two-year certificate in an allied-health professional area with earned certification where applicable in such areas as diagnostic ultrasound, nuclear medicine, physician assistant, radiation therapy, radiologic technology, respiratory therapy, and special procedures in radiologic technology. Admission to the program is by permission of the Department of Medical Laboratory Sciences chair.

Andrews Core Experience - 46

Students must take all courses designated in the Professional Degree Requirements of the Andrews Core Experience while noting the following approved course substitutions. If a student changes to another degree program, these course substitutions will no longer apply even if already completed.

Religion

Equivalent of one per year of full-time enrollment at AU. Courses taken at SDA institutions can be used to meet this requirement.

PBHL 440 Fundamentals of Spirituality & Ethics in Healthcare is required.

Life/Physical Sciences

completed through the associate/certificate program transfer credits

Mathematics

Statistics preferred. Transfer students—any college level course.

Computer Literacy

fulfilled through clinical practica

Service

fulfilled through clinical practica

Social Sciences

- PSYC 101 - Introduction to Psychology Credits: 3
- BHSC 220 - An Interdisciplinary Approach to Contemporary Social Issues Credits: 3
- Or BHSC 235 - Culture, Place and Interdependence Credits: 3

Transfer credits — 34

Accepted from an AS degree or certificate program

Business/Administration Courses — 27

- ACCT 121 - Fundamentals of Accounting Credits: 3
- ACCT 122 - Fundamentals of Accounting Credits: 3
- BSAD 355 - Management and Organization Credits: 3
- BSAD 384 - Human Resource Management Credits: 3
- ECON 226 - Principles of Microeconomics Credits: 3
- MKTG 310 - Principles of Marketing Credits: 3
- and management courses selected in consultation with and approval of the advisor.

Practicum in Administration — 4

- ALHE 480 - Practicum in _____ Credits: 4

Total Credits: 65

Medical Laboratory Science BSMLS

Medical Laboratory Science

The degree program includes three years of undergraduate (BS pre-clinicals) studies plus one year (3 semesters) of clinical (BSMLS) education.

Pre-clinical Program. The first three years of undergraduate study include General Education, cognate science, and preclinical degree requirements. Program options feature directed elective course work selected in consultation with the faculty advisor according to the student's career goals and interests.

Clinical (Professional) Program. The year of clinical studies is comprised of lectures and student laboratories on the Berrien Springs campus and clinical practica at an affiliated hospital or clinical laboratory site.

Clinical Experience (Practical). Students work side-by-side with practicing professionals in patient health care during the final portion of the clinical year. Andrews University maintains a number of affiliations with clinical institutions across the country. Student preferences for clinical site assignments are solicited and granted when possible. Final site assignments are made at the discretion of the faculty. Each student is responsible for providing his/her own transportation for the clinical practica. We strongly advise that each student have his/her own car for that purpose.

Clinical Year Admission Requirements. An independent admissions process is required for university students who wish to enter clinical studies. The application form may be obtained from the Department of Medical Laboratory Sciences (MLS) office. Students should complete the application and return it to the departmental office by January 31 prior to their anticipated clinical-study year.

Admission requires an overall GPA of 2.50. In the admissions process, the GPAs for the cognate science courses and medical laboratory science content courses are computed together. This combined GPA must also be a minimum of 2.50. Preference is given to students with the higher GPAs. Students may only repeat the fundamentals courses once to be eligible for admission consideration for the program.

Applicants must be able to meet the program's published *Essential Functions*, copies of which are incorporated into the application packet, and express a willingness to comply with the principles, rules, regulations, and policies of both the university and the program as they relate to the ideals and values of the Seventh-day Adventist Church and the medical laboratory science profession.

All prerequisite course work, including General Education, cognate science, and pre-clinical courses, must be completed prior to entry into the clinical year. A personal interview may be required at the discretion of the Admissions Committee.

In exceptional circumstances, the Admissions Committee may accept students outside the stated policy.

Student Progression in Clinical Year. The clinical year is highly structured and sequential. Enrolled students may not drop a class, audit a class, or earn a grade lower than C- in any class. Students may enter clinical practica only upon satisfactory completion of on-campus course work. Satisfactory completion is defined as a senior-year minimum cumulative GPA of 2.50 and the recommendation of the faculty. A student receiving a cumulative GPA of less than 2.50 may be allowed to advance if the program faculty identifies exceptional circumstances and recommends that the student continue in the program.

Student continuance in the clinical practica is conditional upon acceptable ethical deportment and exemplary patient-care practices. The clinical affiliate supervisors and program faculty are final arbiters in determining student continuance.

Professional Certification. Students who complete the degree program are eligible to write the national certification examination sponsored by the ASCP (American Society for Clinical Pathology) Board of Certification.

Program Accreditation. The Andrews University Program for Medical Laboratory Sciences holds accreditation from the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N River Rd, Suite 720, Rosemont, IL 60018, (773) 714-8880 fax (773) 714-8886, e-mail at info@naacsl, or the Web at www.naacsl.org.

Refer to the Department of Medical Laboratory Sciences web site for the MLS Program Year Calendar.

BS in Medical Laboratory Science (BSMLS)

General Education Requirements—32

See Professional Degree Requirements, and note the following specific requirements:

Religion:

Equivalent of one per year of full-time enrollment at AU. Courses taken at SDA institutions can be used to meet this requirement.

Required: PBHL 440 Fundamentals of Spirituality & Ethics in Healthcare (3). Recommended for senior (clinical year) transfer students but not required.

Language/Communication:

professional degree requirements

History or Fine Arts/Humanities:

professional degree requirements

Life/Physical Sciences:

See cognate sciences below

Mathematics:

Statistics preferred. Students transferring into clinical program—any college level course.

Computer Literacy:

fulfilled through clinical practica

Service:

fulfilled through clinical practica

Social Sciences:

professional degree requirements

Fitness Education:

2 courses. Recommend freshmen take HLED 120 - Fit for Life and one additional course from personal fitness, outdoor skills or team activity. Transfer students take two from the three categories above. Must also pass a physician-administered physical exam before advancement to clinical practica.

Cognate Science Requirements — 26

- BIOL 165 - Foundations of Biology Credits: 5 or 4
- BIOL 166 - Foundations of Biology Credits: 5 or 4 or
- BIOL 221 - Anatomy and Physiology I Credits: 4
- CHEM 131 - General Chemistry I Credits: 4
- CHEM 132 - General Chemistry II Credits: 4
- CHEM 231 - Organic Chemistry I Credits: 3
- CHEM 232 - Organic Chemistry II Credits: 3
- CHEM 241 - Organic Chemistry Laboratory I Credits: 1
- CHEM 242 - Organic Chemistry Laboratory II Credits: 1
(Fulfills General Education Life/Physical Science requirement)

Major Requirements — 61

Prerequisites — 11

- MLSC 105 - Introduction to Medical Laboratory Science Credits: 1
- MLSC 110 - Medical Terminology Credits: 1

- MLSC 210 - Fundamentals of Hematology and Hemostasis Credits: 2
- MLSC 230 - Fundamentals of Clinical Microbiology Credits: 3
- MLSC 240 - Fundamentals of Immunohematology Credits: 1
- MLSC 350 - Fundamentals of Clinical Chemistry Credits: 3

Major courses — 50

- MLSC 320 - Fundamentals of Immunology Credits: 3
- MLSC 400 - Specimen Procurement and Processing Credits: 1
- MLSC 401 - Clinical Year Seminar and Research Methodology Credits: 0
- MLSC 405 - Clinical Year Seminar and Research Project Credits: 1
- MLSC 411 - Hematology Credits: 3
- MLSC 412 - Hemostasis Credits: 1
- MLSC 413 - Clinical Hematology & Hemostasis Practicum Credits: 4
- MLSC 421 - Clinical Immunology and Molecular Diagnostics Credits: 2
- MLSC 423 - Clinical Immunology, Virology, and Molecular Diagnostics Practicum Credits: 1
- MLSC 431 - Clinical Bacteriology Credits: 4
- MLSC 432 - Clinical Mycology and Parasitology Credits: 2
- MLSC 433 - Clinical Microbiology Practicum Credits: 4
- MLSC 441 - Immunohematology Credits: 3
- MLSC 442 - Transfusion Medicine Credits: 2
- MLSC 443 - Clinical Immunohematology Practicum Credits: 4
- MLSC 451 - Clinical Chemistry I Credits: 4
- MLSC 452 - Clinical Chemistry II Credits: 2
- MLSC 453 - Clinical Chemistry Practicum Credits: 4
- MLSC 461 - Body Fluids Credits: 1
- MLSC 463 - Body Fluids Practicum Credits: 1
- MLSC 475 - Medical Laboratory Management Concepts Credits: 2
- MLSC 493 - Practicum Project Credits: 1

Directed electives — 5–8

Students select courses in consultation with and by the consent of their advisors in a planned program to enhance professional preparation. Pre-medical/pre-dental students must include

- PHYS 141 - General Physics I Credits: 4
- PHYS 142 - General Physics II Credits: 4 or
- PHYS 241 - Physics for Scientists and Engineers I Credits: 4
- PHYS 242 - Physics for Scientists and Engineers II Credits: 4
- PHYS 271 - Physics for Scientists and Engineers Laboratory I Credits: 1
- PHYS 272 - Physics for Scientists and Engineers Laboratory II Credits: 1

Total Credits: 124

Masters

Medical Laboratory Science MSMLS

MS in Medical Laboratory Science (MSMLS) (36)

The Department of Medical Laboratory Sciences offers a graduate program leading to the Master of Science in Medical Laboratory Science. In response to the diversity of skills required by the medical laboratory scientist, the degree features a variety of program emphases, including laboratory sciences, laboratory leadership and administration, education, and laboratory mission and development

Admission requirements. In addition to the general requirements for admission to a graduate program listed in the graduate admission section of this bulletin, the following are departmental requirements:

- Applicants' previous course work must include 16 semester credits of biological sciences, 16 semester credits of chemistry, and one college-level course in

mathematics. Deficiencies must be removed prior to admission to the graduate program.

- Applicants must have an overall GPA of at least 3.0 in undergraduate courses and at least 3.0 in the undergraduate cognate science (chemistry, biology, math and medical laboratory science) courses.
- Applicants must hold professional certification and/or licensure in medical laboratory science acceptable to the admissions committee. Certification may be either general or in one of the recognized areas of specialization. Acceptable certification is typically defined as that offered by the ASCP (American Society for Clinical Pathology) Board of Certification.
- The Graduate Record Examination (GRE) is not required for admission but is required for GRE Scholarship consideration.

Individuals lacking professional certification may request to be admitted on a provisional basis while they pursue the course work required for eligibility to write the national certification examinations. These clinical courses and their prerequisites require a minimum of four academic semesters. The courses include:

- MLSC 210 - Fundamentals of Hematology and Hemostasis Credits: 2
- MLSC 230 - Fundamentals of Clinical Microbiology Credits: 3
- MLSC 240 - Fundamentals of Immunohematology Credits: 1
- MLSC 320 - Fundamentals of Immunology Credits: 3
- MLSC 350 - Fundamentals of Clinical Chemistry Credits: 3
- MLSC 400 - Specimen Procurement and Processing Credits: 1
- MLSC 401 - Clinical Year Seminar and Research Methodology Credits: 0
- MLSC 405 - Clinical Year Seminar and Research Project Credits: 1
- MLSC 411 - Hematology Credits: 3
- MLSC 412 - Hemostasis Credits: 1
- MLSC 413 - Clinical Hematology & Hemostasis Practicum Credits: 4
- MLSC 421 - Clinical Immunology and Molecular Diagnostics Credits: 2
- MLSC 423 - Clinical Immunology, Virology, and Molecular Diagnostics Practicum Credits: 1
- MLSC 431 - Clinical Bacteriology Credits: 4
- MLSC 432 - Clinical Mycology and Parasitology Credits: 2
- MLSC 433 - Clinical Microbiology Practicum Credits: 4
- MLSC 441 - Immunohematology Credits: 3
- MLSC 442 - Transfusion Medicine Credits: 2
- MLSC 443 - Clinical Immunohematology Practicum Credits: 3
- MLSC 451 - Clinical Chemistry I Credits: 4
- MLSC 452 - Clinical Chemistry II Credits: 2
- MLSC 453 - Clinical Chemistry Practicum Credits: 4
- MLSC 461 - Body Fluids Credits: 1
- MLSC 463 - Body Fluids Practicum Credits: 1
- MLSC 475 - Medical Laboratory Management Concepts Credits: 2
- MLSC 493 - Practicum Project Credits: 1

Note:

Students must receive professional certification before completing more than 9 graduate credits, and must meet the GPA requirements as stated above.

Degree Requirements

In addition to meeting the general requirements for graduate degree programs, students must meet the following departmental requirements:

- Complete a minimum of 36 semester credits including the core of 20 semester credits and 16 semester credits selected from the chosen emphasis.
- Have the graduate program coordinator approve course selections and course sequencing. Students may substitute alternate courses listed in this Bulletin with the consent of the graduate program coordinator and the approval of the dean of the School of Health Professions.
- No grade lower than C is acceptable.
- Maintain a minimum cumulative GPA of 3.00 for the graduate portion of the program.
- Competency in statistics is required and is determined by the graduate program coordinator.

Core courses — 20 credits

Student must take the following courses:

- MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science Credits: 1
- MLSC 501 - Seminar in Medical Laboratory Science Credits: 1

- MLSC 561 - Laboratory Management: Issues and Strategies Credits: 3
- MLSC 562 - Issues in Laboratory Regulations and Practice Credits: 3
- MLSC 585 - Applied Studies in Medical Laboratory Science Credits: 5
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2-3
- ACCT 501 - Survey of Accounting Credits: 2

Choose one of the following courses:

- BSAD 500 - Survey of Management Credits: 2
- Or BSAD 515 - Organizational Behavior & Leadership Credits: 3

Medical Laboratory Science, Education Emphasis MSMLS

Degree Requirements

In addition to meeting the general requirements for graduate degree programs, students must meet the following departmental requirements:

- Complete a minimum of 36 semester credits including the core of 20 semester credits and 16 semester credits selected from the chosen emphasis.
- Have the graduate program coordinator approve course selections and course sequencing. Students may substitute alternate courses listed in this Bulletin with the consent of the graduate program coordinator and the approval of the dean of the School of Health Professions.
- No grade lower than C is acceptable.
- Maintain a minimum cumulative GPA of 3.00 for the graduate portion of the program.
- Competency in statistics is required and is determined by the graduate program coordinator.

Core courses — 20 credits

Student must take the following courses:

- MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science Credits: 1
- MLSC 501 - Seminar in Medical Laboratory Science Credits: 1
- MLSC 561 - Laboratory Management: Issues and Strategies Credits: 3
- MLSC 562 - Issues in Laboratory Regulations and Practice Credits: 3
- MLSC 585 - Applied Studies in Medical Laboratory Science Credits: 5
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2-3
- ACCT 501 - Survey of Accounting Credits: 2

Choose one of the following courses:

- BSAD 500 - Survey of Management Credits: 2
- Or BSAD 515 - Organizational Behavior & Leadership Credits: 3

Education Emphasis — 16 credits

Required Courses

- EDAL 520 - Foundations of Educational Leadership Credits: 2,3
- EDCI 545 - Assessment & Evaluation of Learning Credits: 3
- EDCI 650 - Curriculum Design and Development Credits: 3

Additional courses to select from:

- EDAL 670 - Technology for Leaders Credits: 3
- EDCI 606 - Teaching in Higher Education Credits: 2
- EDCI 610 - Teaching the Adult Learner Credits: 2,3
- GDPC 514 - Psychology of Learning Credits: 3
- GDPC 520 - Life Span Development Credits: 3
- GDPC 554 - Career Development Credits: 3
- LEAD 638 - Issues in Leadership Theory Credits: 2
- A relevant course not listed in this emphasis may be selected in consultation with and approved by the graduate program coordinator.

Admissions Requirements

The Department of Medical Laboratory Sciences offers a graduate program leading to the Master of Science in Medical Laboratory Science. In response to the diversity of skills required by the medical laboratory scientist, the degree features a variety of program emphases, including laboratory sciences, laboratory leadership and administration, education, and laboratory mission and development

Admission requirements. In addition to the general requirements for admission to a graduate program listed in the graduate admission section of this bulletin, the following are departmental requirements:

- Applicants' previous course work must include 16 semester credits of biological sciences, 16 semester credits of chemistry, and one college-level course in mathematics. Deficiencies must be removed prior to admission to the graduate program.
- Applicants must have an overall GPA of at least 3.0 in undergraduate courses and at least 3.0 in the undergraduate cognate science (chemistry, biology, math and medical laboratory science) courses.
- The Graduate Record Examination (GRE) is not required for admission but is required for GRE Scholarship consideration.
- Applicants must hold professional certification and/or licensure in medical laboratory science acceptable to the admissions committee. Certification may be either general or in one of the recognized areas of specialization. Acceptable certification is typically defined as that offered by the American Society for Clinical Pathology Board of Certification for the United States (ASCP) or for international certification (ASCP^I).
- Students must receive professional certification before completing more than 9 graduate credits, and must meet the GPA requirements as stated above.

Individuals lacking professional certification may request to be admitted on a provisional basis while they pursue the course work required for eligibility to write the national certification examinations. These clinical courses and their prerequisites require a minimum of four academic semesters. The courses include:

[Click here to see required coursework for individuals lacking professional certification](#)

Medical Laboratory Science, Laboratory Leadership & Administration Emphasis MSMLS

Degree Requirements

In addition to meeting the general requirements for graduate degree programs, students must meet the following departmental requirements:

- Complete a minimum of 36 semester credits including the core of 20 semester credits and 16 semester credits selected from the chosen emphasis.
- Have the graduate program coordinator approve course selections and course sequencing. Students may substitute alternate courses listed in this Bulletin with the consent of the graduate program coordinator and the approval of the dean of the School of Health Professions.
- No grade lower than C is acceptable.
- Maintain a minimum cumulative GPA of 3.00 for the graduate portion of the program.
- Competency in statistics is required and is determined by the graduate program coordinator.

Core courses — 20 credits

Student must take the following courses:

- MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science Credits: 1
- MLSC 501 - Seminar in Medical Laboratory Science Credits: 1
- MLSC 561 - Laboratory Management: Issues and Strategies Credits: 3
- MLSC 562 - Issues in Laboratory Regulations and Practice Credits: 3
- MLSC 585 - Applied Studies in Medical Laboratory Science Credits: 5
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2-3
- ACCT 501 - Survey of Accounting Credits: 2

Choose one of the following courses:

- BSAD 500 - Survey of Management Credits: 2
- Or BSAD 515 - Organizational Behavior & Leadership Credits: 3

Laboratory Leadership and Administration Emphasis — 16 credits

Required Courses

- ACCT 625 - Financial Analysis and Reporting Credits: 3
- LEAD 638 - Issues in Leadership Theory Credits: 2

Additional courses to select from:

- BSAD 530 - Leadership & Management of Not-for-Profit Organizations Credits: 3
- BSAD 545 - International Business Management Credits: 3
- BSAD 560 - Intercultural Business Relations Credits: 3
- BSAD 615 - Management of Quality Credits: 3
- BSAD 620 - Christian Ethics, Service & Society Credits: 3
- EDAL 670 - Technology for Leaders Credits: 3
- INFS 510 - Management Information Systems Credits: 3
- LEAD 638 - Issues in Leadership Theory Credits: 2

Admissions Requirements

The Department of Medical Laboratory Sciences offers a graduate program leading to the Master of Science in Medical Laboratory Science. In response to the diversity of skills required by the medical laboratory scientist, the degree features a variety of program emphases, including laboratory sciences, laboratory leadership and administration, education, and laboratory mission and development

Admission requirements. In addition to the general requirements for admission to a graduate program listed in the graduate admission section of this bulletin, the following are departmental requirements:

- Applicants' previous course work must include 16 semester credits of biological sciences, 16 semester credits of chemistry, and one college-level course in mathematics. Deficiencies must be removed prior to admission to the graduate program.
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- Students must receive professional certification before completing more than 9 graduate credits, and must meet the GPA requirements as stated above.

Individuals lacking professional certification may request to be admitted on a provisional basis while they pursue the course work required for eligibility to write the national certification examinations. These clinical courses and their prerequisites require a minimum of four academic semesters. The courses include:

[Click here to see required coursework for individuals lacking professional certification](#)

Medical Laboratory Science, Laboratory Mission & Development Emphasis MSMLS

Degree Requirements

In addition to meeting the general requirements for graduate degree programs, students must meet the following departmental requirements:

- Complete a minimum of 36 semester credits including the core of 20 semester credits and 16 semester credits selected from the chosen emphasis.
- Have the graduate program coordinator approve course selections and course sequencing. Students may substitute alternate courses listed in this Bulletin with the consent of the graduate program coordinator and the approval of the dean of the School of Health Professions.
- No grade lower than C is acceptable.

- Maintain a minimum cumulative GPA of 3.00 for the graduate portion of the program.
- Competency in statistics is required and is determined by the graduate program coordinator.

Core courses — 20 credits

Student must take the following courses:

- MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science Credits: 1
- MLSC 501 - Seminar in Medical Laboratory Science Credits: 1
- MLSC 561 - Laboratory Management: Issues and Strategies Credits: 3
- MLSC 562 - Issues in Laboratory Regulations and Practice Credits: 3
- MLSC 585 - Applied Studies in Medical Laboratory Science Credits: 5
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2–3
- ACCT 501 - Survey of Accounting Credits: 2

Choose one of the following courses:

- BSAD 500 - Survey of Management Credits: 2
- Or BSAD 515 - Organizational Behavior & Leadership Credits: 3

Laboratory Mission & Development Emphasis:

Required Courses

- BSAD 545 - International Business Management Credits: 3 or
- BSAD 560 - Intercultural Business Relations Credits: 3
- BSAD 620 - Christian Ethics, Service & Society Credits: 3 or
- MSSN 615 - Anthropology for Mission and Ministry Credits: 2,3

Additional courses to select from:

- ANTH 517 - Cultural and Developmental Anthropology Credits: 2
- LEAD 525 - Public Relations: Community Partnerships Credits: 2,3
- PSYC 515 - Organization and Human Resources Credits: 2
- SOCI 508 - Emergency Preparedness Credits: 2
- SOCI 560 - Family Resource Management Credits: 3

The following courses may be selected if not already taken as part of the required courses for the emphasis.

- BSAD 545 - International Business Management Credits: 3
- BSAD 560 - Intercultural Business Relations Credits: 3
- BSAD 620 - Christian Ethics, Service & Society Credits: 3
- MSSN 615 - Anthropology for Mission and Ministry Credits: 2,3

Admissions Requirements

The Department of Medical Laboratory Sciences offers a graduate program leading to the Master of Science in Medical Laboratory Science. In response to the diversity of skills required by the medical laboratory scientist, the degree features a variety of program emphases, including laboratory sciences, laboratory leadership and administration, education, and laboratory mission and development

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Medical Laboratory Science, Laboratory Science Emphasis MSMLS

Degree Requirements

In addition to meeting the general requirements for graduate degree programs, students must meet the following departmental requirements:

- Complete a minimum of 36 semester credits including the core of 20 semester credits and 16 semester credits selected from the chosen emphasis.
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- No grade lower than C is acceptable.
- Maintain a minimum cumulative GPA of 3.00 for the graduate portion of the program.
- Competency in statistics is required and is determined by the graduate program coordinator.

Core courses — 20 credits

Student must take the following courses:

- MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science Credits: 1
- MLSC 501 - Seminar in Medical Laboratory Science Credits: 1
- MLSC 561 - Laboratory Management: Issues and Strategies Credits: 3
- MLSC 562 - Issues in Laboratory Regulations and Practice Credits: 3
- MLSC 585 - Applied Studies in Medical Laboratory Science Credits: 5
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2–3
- ACCT 501 - Survey of Accounting Credits: 2

Choose one of the following courses:

- BSAD 500 - Survey of Management Credits: 2
- Or BSAD 515 - Organizational Behavior & Leadership Credits: 3

Laboratory Science Emphasis — 16 credits

Required Courses

- MLSC 611 - Molecular Diagnostics in Health and Disease I Credits: 3
- MLSC 612 - Molecular Diagnostics in Health and Disease II Credits: 3
- MLSC 621 - Laboratory Applications of Molecular Pathology Credits: 2

Additional courses to select from:

- BIOL 464 - Systems Physiology Credits: 4
- BIOL 465 - Histology Credits: 3
- BIOL 477 - Neurobiology Credits: 3

Admissions Requirements

The Department of Medical Laboratory Sciences offers a graduate program leading to the Master of Science in Medical Laboratory Science. In response to the diversity of skills required by the medical laboratory scientist, the degree features a variety of program emphases, including laboratory sciences, laboratory leadership and administration, education, and laboratory mission and development

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- Students must receive professional certification before completing more than 9 graduate credits, and must meet the GPA requirements as stated above.

Individuals lacking professional certification may request to be admitted on a provisional basis while they pursue the course work required for eligibility to write the national certification examinations. These clinical courses and their prerequisites require a minimum of four academic semesters. The courses include:

Course work requirements for national certification examination eligibility

- MLSC 210 - Fundamentals of Hematology and Hemostasis
- MLSC 230 - Fundamentals of Clinical Microbiology
- MLSC 240 - Fundamentals of Immunohematology
- MLSC 320 - Fundamentals of Immunology
- MLSC 350 - Fundamentals of Clinical Chemistry
- MLSC 400 - Specimen Procurement and Processing
- MLSC 401 - Clinical Year Seminar and Research Methodology
- MLSC 405 - Clinical Year Seminar and Research Project
- MLSC 411 - Hematology
- MLSC 412 - Hemostasis
- MLSC 413 - Clinical Hematology & Hemostasis Practicum
- MLSC 421 - Clinical Immunology and Molecular Diagnostics
- MLSC 423 - Clinical Immunology, Virology, and Molecular Diagnostics Practicum
- MLSC 431 - Clinical Bacteriology
- MLSC 432 - Clinical Mycology and Parasitology
- MLSC 433 - Clinical Microbiology Practicum
- MLSC 441 - Immunohematology
- MLSC 442 - Transfusion Medicine
- MLSC 443 - Clinical Immunohematology Practicum
- MLSC 451 - Clinical Chemistry I
- MLSC 452 - Clinical Chemistry II
- MLSC 453 - Clinical Chemistry Practicum
- MLSC 461 - Body Fluids
- MLSC 463 - Body Fluids Practicum
- MLSC 475 - Medical Laboratory Management Concepts
- MLSC 493 - Practicum Project

Allied Health

ALHE 440 - Topics in _____

Credits: 1 | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** permission of program director. | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **College Code:** SHP

ALHE 480 - Practicum in _____

Credits: 4 | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** permission of program director. | **Repeatable:** Repeatable up to 12 credits | **Schedule Type:** Practicum | **College Code:** SHP

Medical Laboratory Science

MLSC 105 - Introduction to Medical Laboratory Science

Credits: 1 | Lectures and/or demonstrations presented by each of the departmental faculty members covering the major disciplines in clinical laboratory science. | **Weekly:** 1 lecture | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 110 - Medical Terminology

Credits: 1 | An in-depth study of medical terms and abbreviations relating to diseases, disorders and drugs. | **Weekly:** 1 lecture | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Self-Paced | **Special Approval:** Instructor permission required. | **College Code:** SHP

MLSC 210 - Fundamentals of Hematology and Hemostasis

Credits: 2 | Introduces the production, maturation, function of normal blood cells and hemostasis. Selected routine manual hematology and hemostasis procedures are performed. | **Weekly:** 3 lectures and 1 lab | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Lecture/Lab | **College Code:** SHP

MLSC 230 - Fundamentals of Clinical Microbiology

Credits: 3 | Orientation to clinical microbiology; specimen selection, collection, and transport; microscopic evaluation; stains and sterilization techniques; media and incubation selections; identification of routine and non-routine microorganisms; susceptibility testing; automation and quality assurance. | **Weekly:** 2 lectures and 2 labs | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** BIOL 165. | **Schedule Type:** Lecture, Lecture/Lab | **College Code:** SHP

MLSC 240 - Fundamentals of Immunohematology

Credits: 1 | Introduces blood group antigen systems, antibody screening, antibody identification, and compatibility testing. Selected routine procedures are performed. | **Weekly:** 3 lectures and 1 lab | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Lab, Lecture/Lab | **College Code:** SHP

MLSC 320 - Fundamentals of Immunology

Credits: 3 | Innate and acquired immune systems of the human organism; immunoglobulin production, structure, function, and diversity; antigen characteristics, variety, and specific red cell groups; tolerance and memory; complement structure and function; cell mediated immunity function and regulation; autoimmune disorders; transplantation and tumor immunology; immunodeficiency disorders; principles and procedures of techniques used in modern immunology lab. | **Weekly:** 3 lectures | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** BIOL 165. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 350 - Fundamentals of Clinical Chemistry

Credits: 3 | Clinical lab procedures, safety, application of statistical procedures in quality control, and principles of clinical laboratory instrumentation. Topics include carbohydrates, lipids, electrolytes, and hepatic function with selected pathologies. | **Weekly:** 3 lectures and 1 lab | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** completed or currently enrolled in CHEM 131 or permission of instructor | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 400 - Specimen Procurement and Processing

Credits: 1 | Clinical specimen collection and processing; point-of-care testing, professional ethics; phlebotomy practicum. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** permission of the program director. | **Schedule Type:** Lecture, Lecture/Lab | **College Code:** SHP

MLSC 401 - Clinical Year Seminar and Research Methodology

Credits: 0 | Introduction to educational methodology, multicultural communication, professionalism, medical laboratory sciences literature review, research design and practice. Attendance to all sessions is required. A pass/fail grade is assigned. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Prerequisite(s):** permission of program director. | **Schedule Type:** Seminar | **College Code:** SHP

MLSC 405 - Clinical Year Seminar and Research Project

Credits: 1 | Introduction to team building, service outreach and professional development. Research in medical laboratory science under the direction of a departmental faculty member. Preparation and delivery of a written report and oral presentation on the research project. Attendance to all sessions is required. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** permission of program director. | **Schedule Type:** Seminar | **College Code:** SHP

MLSC 411 - Hematology

Credits: 3 | Cellular elements of the blood, their maturation, functions, and morphologies; abnormal and disease state hematologies; principles and procedures of routine and special hematology assay methodologies; correlation of patient conditions with results of hematology assay results. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC210 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 412 - Hemostasis

Credits: 1 | Hemostasis systems, their function, interaction, and monitoring; correlation of hemostasis assay results with various disorders; thrombosis and anticoagulant therapy; principles and procedures of routine and special hemostasis assays. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC411 and permission of program director. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 413 - Clinical Hematology & Hemostasis Practicum

Credits: 4 | Professional health-care laboratory practicum; emphasis in patient-care application of hematology and hemostasis procedures. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC411, 412 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 421 - Clinical Immunology and Molecular Diagnostics

Credits: 2 | Theory and application of immunologic/serologic and basic molecular techniques including detection, analyses and epidemiology. Emphasis on correlation of patient conditions with test results for viral and bacterial diseases and cancers. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC320 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 423 - Clinical Immunology, Virology, and Molecular Diagnostics Practicum

Credits: 1 | Professional health-care laboratory practicum: emphasizes patient-care applications of immunology, serology, virology and molecular techniques. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC421 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 431 - Clinical Bacteriology

Credits: 4 | Emphasis on specimen collection, culture, identification and clinical significance of bacterial pathogens. Simulated clinical practice for the separation of normal flora from pathogenic microorganisms encountered in various body sites including the study of antimicrobial susceptibility testing. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC230 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 432 - Clinical Mycology and Parasitology

Credits: 2 | Study of fungi and parasites associated in human infections. Emphasis on specimen collection and preservation, culture and identification procedures. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC431 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 433 - Clinical Microbiology Practicum

Credits: 4 | Professional health-care laboratory practicum; emphasis in patient-care applications of bacteriology, mycology and parasitology. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC431, MLSC432 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 441 - Immunohematology

Credits: 3 | Blood grouping and typing; blood group antigen systems; compatibility testing; antibody identification; quality control and quality assurance; donor recruitment and selection; component preparation; blood-banking records; grouping and compatibility problem solving; patient clinical state correlations. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC240, MLSC320 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 442 - Transfusion Medicine

Credits: 2 | In-depth study of immunohematology testing results, clinical patient manifestations, blood component therapy and blood product requirements. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 441 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 443 - Clinical Immunohematology Practicum

Credits: 4 | Professional health-care laboratory practicum; emphasis in patient-care applications of immunohematology. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 441, MLSC 442 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 451 - Clinical Chemistry I

Credits: 4 | Carbohydrate, lipid, enzyme, electrolyte, acid-base balance, trace element, protein systems, and gastric functions. Correlations with normal physiology and selected pathological conditions. Analysis of relevant blood and body fluids constituents. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 350 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 452 - Clinical Chemistry II

Credits: 2 | Liver function, renal function, endocrinology, toxicology, and therapeutic drug monitoring. Correlations with normal physiology and selected pathological conditions. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 451 and permission of program director. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

MLSC 453 - Clinical Chemistry Practicum

Credits: 4 | Professional health-care laboratory practicum. Emphasis on patient-care applications in clinical chemistry. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 451, MLSC 452 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 461 - Body Fluids

Credits: 1 | Analysis of various body fluids such as serous fluids, synovial fluids, amniotic fluid, and urine. Correlations with normal physiology and selected pathological conditions. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 451 and permission of the program director. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 463 - Body Fluids Practicum

Credits: 1 | Professional health-care laboratory practicum. Emphasis in patient-care applications of body fluids. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MLSC 461 and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 475 - Medical Laboratory Management Concepts

Credits: 2 | Discussion in selected areas that include health-care delivery systems; problem solving in the clinical laboratory; human resource management; supply and equipment acquisition; financial management performance standards and assessment; ethics; laboratory information systems; and regulatory processes. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** permission of the program director. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 490 - Topics in _____

Credits: 1-4 | An in-depth study of selected topics in the medical laboratory sciences. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** permission of program director. | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 493 - Practicum Project

Credits: 1 | Designed to be an integral component of the clinical year practica experience. Introduces students to the principles, practices, and performance of clinical laboratory projects expected of practicing professional medical laboratory scientists. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 495 - Independent Project

Credits: 1 | Topics may be from areas relevant to clinical laboratory practice and must be approved by the Program director. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Prerequisite(s):** permission of program director. | **Repeatable:** Repeatable with different topics | **Schedule Type:** Independent | **College Code:** SHP

MLSC 496 - Extended Clinical Practicum

Credits: 1 | A twelve-week professional health-care laboratory practicum. Emphasis in patient-care applications. Subject areas are to be coordinated with the Clinical Site Education Coordinator and the program director. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Prerequisite(s):** successful completion of the 20-week clinical practica of the clinical-year program and permission of program director. | **Schedule Type:** Practicum | **College Code:** SHP

MLSC 500 - Foundations for Graduate Study in Medical Laboratory Science

Credits: 1 | Orientation designed for students to refine the skills needed for successful graduate work. Focus on academic and professional proficiencies such as critical thinking, principles of research, and scholarly writing. Written and oral presentation required. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** permission of graduate program coordinator. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 501 - Seminar in Medical Laboratory Science

Credits: 1 | Literature review of current laboratory science topics. A service-based activity addressing a relevant issue in laboratory science required. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** permission of graduate program coordinator. | **Schedule Type:** Seminar | **College Code:** SHP

MLSC 561 - Laboratory Management: Issues and Strategies

Credits: 3 | An overview of issues and strategies relevant to managing a medical laboratory. Topics include historic perspective of management; organizational structure; management responsibilities and functions; personnel resources;

performance improvement; training and evaluation; safety regulations and health compliance; financial matters such as cost/benefit analysis, budgeting, and reimbursement; record keeping and data management; information systems; marketing; and ethics. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** permission of graduate program coordinator. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 562 - Issues in Laboratory Regulations and Practice

Credits: 3 | Clinical laboratories are increasingly regulated by state, federal and other agencies. Applicable regulations will be examined and their impact on laboratory operations evaluated. A selected number of laboratory quality assurance procedures, as specified by CLIA '88 regulations, will be performed in the laboratory. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Statistics and permission of graduate program coordinator. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 585 - Applied Studies in Medical Laboratory Science

Credits: 5 | Designed in consultation with and coordinated by the area specialty advisor. A proposal, cumulative report, presentation and defense required. Clinical placement depends on clinical site availability. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** Certification and/or licensure as a medical laboratory scientist and permission of graduate program coordinator. | **Schedule Type:** Lab | **College Code:** SHP

MLSC 595 - Independent Study/Readings/Research Project

Credits: 1 | Topics may be from immunology, immunohematology, clinical chemistry, hematology, microbiology and other areas of patient-care science, clinical laboratory science education, management, or applications specially relevant to clinical laboratories. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Prerequisite(s):** permission of graduate program coordinator. | **Repeatable:** Repeatable up to 4 credits with different topics | **Schedule Type:** Independent | **College Code:** SHP

MLSC 611 - Molecular Diagnostics in Health and Disease I

Credits: 3 | Biomolecular foundations for clinical applications in molecular pathology, with emphasis on disorders of genetic origin, protein structure, and function. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Permission of Graduate Program Coordinator. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

MLSC 612 - Molecular Diagnostics in Health and Disease II

Credits: 3 | Clinical applications in molecular pathology with focus on disorders associated with the cell membrane structures, receptors, signaling, and origin of malignancies. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Permission of Graduate Program Coordinator. | **Schedule Type:** Lecture | **College Code:** SHP

MLSC 621 - Laboratory Applications of Molecular Pathology

Credits: 2 | Operation of molecular laboratory equipment; extraction, hybridization, and quantification (or quantitation) of nucleic acids. Clinical applications of electrophoresis, nucleic acid amplification, sequencing, and detection techniques. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Permission of Graduate Program Coordinator. | **Schedule Type:** Lab | **College Code:** SHP

MLSC 650 - Project Continuation

Credits: 0 | Students may register for this course while clearing deferred grade (DG) and/or incomplete (I) courses with approval only. Registration for this course indicates full-time status. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **Special Approval:** Permission of the graduate program coordinator. | **College Code:** SHP

MLSC 655 - Program Continuation

Credits: 0 | Students may register for this non-credit continuation course to maintain active status. For additional information on active status, please refer to the School of Graduate Studies & Research. Registration does not indicate full-time status. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Schedule Type:** Independent | **College Code:** SHP

Nursing

Marsh Hall (Second Floor)
269-471-3311 or (800) 877-2863
nursing@andrews.edu
www.andrews.edu/nrsg/

Faculty

Karen A. Allen, *Chair, and Director of Graduate Programs*

Grace C. Chi

Henrietta H. Hanna, *Director of Undergraduate Curriculum*

Mary N. Ngugi

Arlene M. Saliba, *Director of Undergraduate Admissions and Progressions*

Gisela E. Schmidt

Beverly J. Sedlacek

Khonnah M. Weithers

Mission

The Andrews University Department of Nursing, a program based on Seventh-day Adventist precepts and Restoration to the Image of God, provides transformational nursing education which equips students to function as professional nurses in direct care, advanced practice, research, and education. Through the following activities, the Department of Nursing encourages students to seek knowledge, affirm faith, and provide changes that impact the world of healthcare:

Seek Knowledge

- Prepare nurses that provide culturally competent, high quality, evidence-based patient-centered care.
- Prepare nurses for first-time licensing and certification success.
- Encourage lifelong learning.

Affirm Faith

- Prepare nurses to practice within the Christian context of "Restoration to the Image of God."
- Promote personal spiritual growth.
- Teach theoretical underpinning of wellness, illness, and disease within the context of the Great Controversy.

Change the World

- Teach with service/mission focus, medical evangelism.
- Teach current whole-person nursing care across the life span which addresses wellness and illness.
- Prepare nurse leaders with a mind set for professional and ethical practice which incorporates communication (all venues), teamwork and collaboration.

Vision

To prepare professional nurses to reflect Christian spirituality, caring attitudes, clinical excellence, and cultural competence for service and practice in concert with the four main initiatives from the Institute of Medicine and the Robert Wood Johnson Foundation's report on the Future of Nursing (October 5, 2010):

- Nurses should practice to the full extent of their education and training.
- Nurses should achieve higher levels of education and training through an improved education system that promotes seamless academic progression.
- Nurses should be full partners, with physicians and other health care professionals, in redesigning health care in the United States.
- Effective workforce planning and policy making require better data collection and information infrastructure.

Program Accreditation

The Andrews University Nursing program is approved by the Michigan Board of Nursing and holds accreditation from the Accreditation Commission for Education in Nursing* (ACEN).

* ACEN

3343 Peachtree Rd NE, Suite 850

Atlanta GA 30326

Phone: 404-975-5000

Bachelors

Nursing, BS (Completion)

Program Description

For information, contact: Myrna Araujo-Constantine, myrnac@andrews.edu, 269-471-3311

BS Completion provides the RN with an associate degree an opportunity to complete their Bachelor of Science degree. The curriculum focuses on the professional and leadership roles of the BS-prepared nurse. As students come from varying school backgrounds, the program of completion is individualized. Normally students complete in two to three years (4-6 semesters). The program requirements will involve clinical activities that cannot be carried out in the student's normal work setting.

Up to 31 credits of lower-division nursing may be accepted from the associate degree transcript.

RN's without recognized academic credit in nursing may obtain credit by successfully passing the NLN Upward Mobility Profile II Tests, or an acceptable option. These tests passed at the recommended score would count toward the 31 credits of lower-division nursing credits (although not counted in the GPA).

General Education and Cognate courses are also considered when transferring into our program. Each student will be evaluated on an individual basis to determine which of the 32 General Education credits and the 28 Cognate credits remain of those required for graduation.

Total Credits: 125

Nursing Major Requirements—34

- NRS 305 - Health Assessment Credits: 3
- NRS 315 - Pathophysiology Credits: 3
- NRS 320 - Professional Nursing Concepts for the RN Credits: 3
- NRS 366 - Complementary Wellness and Restoration I Credits: 1
- NRS 408 - Families in Stress and Crisis Credits: 2
- NRS 414 - Critical Care Nursing Credits: 3
- NRS 418 - Leadership in Nursing Credits: 3
- NRS 438 - Intercultural Mission Service in Nursing Credits: 2
- NRS 445 - Nursing Research Credits: 3,4 (4 credits required for program)
- NRS 450 - Community Nursing Credits: 4
- NRS 466 - Complementary Wellness and Restoration II Credits: 2,3 (3 credits required for program)
- NRS 480 - Senior Nursing Internship Credits: 3

Required Cognates - 3

- STAT 285 - Elementary Statistics Credits: 3

General Education Requirements - 20

- COMM 104 - Communication Skills Credits: 3
- HIST 117 - Civilizations and Ideas I Credits: 3
- MATH 145 - Reasoning with Functions Credits: 3
- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3
- PHIL 224 - Introduction to Philosophy Credits: 3
- 2 Activity courses from FTES Credits: 2
- One Religion course as listed in professional program requirements Credits: 3

Practicum

Undergraduate nursing practicum: In nursing classes with a practicum, a ratio of four clinical hours will be required for each semester credit. For example, a 1-credit practicum meets for 60 clock hours, a 2-credit practicum course meets for 120 clock hours, a 1-credit lab meets for 30 clock hours. Practicum hours are indicated in the bulletin in the course description.

Admission Requirements

Application for admission may require a minimum of six weeks for processing evaluation. Deadline for applications is May 15 to be considered for entry into the nursing program in the Fall Semester.

- Minimal overall GPA of 3.00
- An acceptable criminal background check from company recommended by Department of Nursing—to include Berrien County.
- Physical examination report that must include:
 - a. Tuberculin skin test (if positive a chest x-ray is required, will be evaluated individually) and yearly evaluation thereafter
 - b. Proof of immunization or serum immunity for MMR1 and MMR2 (measles, mumps, rubella, rubeola), T-dap (Tetanus, Diphtheria, Pertussis), and hepatitis B
 - c. Proof of either having had chickenpox (dates of disease or tested for varicella-zoster antibodies) or the immunization
- Meeting the minimum requirements does not guarantee admission.
- Current licensure as an RN in the United States or equivalent accreditation in country of residence.
- Drug screening is required.
- Finger Printing is required.

Progression

All undergraduate nursing students need to understand that:

- Nursing courses must be taken in the required sequence.
- A percentage as stated in the department handbook is required to pass each nursing course.
- A test average as stated in the department handbook is required for identified nursing courses.
- No grade lower than a B- is accepted in any undergraduate nursing course.
- A minimum GPA of 3.00 is required for cumulative cognate GPA (with no grade lower than a C in any cognate) and cumulative overall GPA.
- Independent study courses cannot replace required nursing courses.
- Students wishing to transfer in nursing credits must have course work evaluated by the Nursing Department—Admissions and Progression's Committee. (Please allow a minimum of six weeks prior to the beginning of classes for evaluation.)
- Annual flu shots are required.
- Maintaining a current certification of the American Heart Association Health Care Provider CPR course.
- There is an annual review of required health care competencies. (See Handbook for specifics)
- Any student on a Leave of Absence for two years or more, must have a readmission reevaluation of both clinical and theoretical knowledge.
- Class attendance is required: The Department of Nursing will uphold University Policy.
- Clinical attendance is required: See p. 19 and p. 20 of the Department of Nursing Handbook.
- Student will be asked to withdraw from the nursing program if one or more nursing courses are failed at any time.
- Students have the right to reapply to the program.
- Readmission will be considered on an individual basis.
- Student will be required to show competence via a standardized external exam and remediation before progressing to certain classes.
- Academic performance alone does not ensure completion of the nursing preparation. Students must also continuously meet acceptable professional ethics, disposition and safety standards as determined by the admissions and progressions committee.
- A urine drug screen must be completed 20-30 days prior to the start of the first clinical rotation and at the beginning of each academic year.
- Annual flu shots are required.
- Annual criminal background check is required.

Nursing, BS (Pre-licensure)

Program Description

This is an eight-semester nursing program planned to cover four academic years. The curriculum focuses on the provision of care and the promotion of health for individuals and families. Students gain proficiency through both class (theory) and

laboratory (practicum/clinical) experiences in a variety of settings. To receive a strong and varied clinical experience, students travel to nearby hospitals and community agencies and work with clients of varied socio-economic groups. Each student is responsible for providing or arranging her/his own transportation for clinical practica.

Students may enter the university as declared nursing majors, but the first year is typically spent in general education requirements, and cognate courses. Students taking NRS 215 - Introduction to Professional Nursing Concepts, are encouraged to apply for entrance into the nursing program prior to completion of the spring semester of their freshman year. Transfer students will take NRS 215 - Introduction to Professional Nursing Concepts in the Spring Semester of their Sophomore year. The deadline for application is May 15.

Total Credits: 125

Nursing Major Requirements—65

- NRS 211 - Nursing Pharmacology I Credits: 2
- NRS 212 - Nursing Pharmacology II Credits: 3
- NRS 215 - Introduction to Professional Nursing Concepts Credits: 1
- NRS 216 - Fundamentals of Nursing Theory and Practice Credits: 5
- NRS 240 - Psychiatric-Mental Health Nursing Credits: 4
- NRS 305 - Health Assessment Credits: 3
- NRS 315 - Pathophysiology Credits: 3
- NRS 331 - Medical-Surgical I Credits: 5
- NRS 332 - Medical-Surgical II Credits: 6
- NRS 366 - Complementary Wellness and Restoration I Credits: 1
- NRS 408 - Families in Stress and Crisis Credits: 2
- NRS 414 - Critical Care Nursing Credits: 3
- NRS 416 - Comprehensive Overview Credits: 2
- NRS 418 - Leadership in Nursing Credits: 3
- NRS 430 - The Childbearing Family Credits: 4
- NRS 438 - Intercultural Mission Service in Nursing Credits: 2
- NRS 440 - The Developing Child Credits: 4
- NRS 445 - Nursing Research Credits: 3,4 (3 credits required for program)
- NRS 450 - Community Nursing Credits: 4
- NRS 466 - Complementary Wellness and Restoration II Credits: 2,3 (2 credits required for program)
- NRS 480 - Senior Nursing Internship Credits: 3

Required cognates—28

- BIOL 221 - Anatomy and Physiology I Credits: 4
- BIOL 222 - Anatomy and Physiology II Credits: 4
- BIOL 260 - General Microbiology Credits: 4
- CHEM 110 - Introduction to Inorganic Chemistry Credits: 4
- FDNT 230 - Nutrition Credits: 3
- PSYC 101 - Introduction to Psychology Credits: 3
- PSYC 301 - Human Development Credits: 3
- STAT 285 - Elementary Statistics Credits: 3

Note:

*Please note that if any cognates (Anatomy & Physiology, Human Development, Microbiology, Nutrition, Psychology, Statistics) are older than five years they will not be accepted as credit (exception for RNs) and will need to be retaken as a class for credit or the student may take a standardized challenge exam, such as the CLEP exam as approved by the Department of Nursing.

Andrews Core Experience - 32

See Professional Education Requirements and note the following **specific** requirements:

Religion:

- Equivalent of one course per year of full-time enrollment at AU. Required course:
- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3 (take in Junior or Senior year)

Language/Communication:

- professional degree requirements

History:

- professional degree requirements

Fine Arts/Humanities:

- professional degree requirements

Life/Physical Sciences:

- FDNT 230 - Nutrition Credits: 3 (counted in cognates)

Mathematics:

- MATH 145 - Reasoning with Functions Credits: 3

Service:

Field service credit requirements are met in these classes.

- NRSRG 438 - Intercultural Mission Service in Nursing Credits: 2
- NRSRG 450 - Community Nursing Credits: 4

Social Sciences:

- PSYC 101 - Introduction to Psychology Credits: 3 (counted in cognates)

Fitness Education:

- professional degree requirements

Practicum

Undergraduate nursing practicum: In nursing classes with a practicum, a ratio of four clinical hours will be required for each semester credit. For example, a 1-credit practicum meets for 60 clock hours, a 2-credit practicum course meets for 120 clock hours, a 1-credit lab meets for 30 clock hours. Practicum hours are indicated in the bulletin in the course description.

Additional Requirements

All NCLEX-preparatory students accepted into the nursing program will:

1. Be asked to seek experience in a hospital acute care setting as a nursing assistant, nursing technician or the equivalent, for approximately 380 hours while enrolled in the nursing program. The majority of these hours can be done over the summer. The breakdown of hours is as follows:

- 75–80 hours prior to beginning NRSRG 331 - Medical-Surgical I
- Externship or equivalent hospital designed experience during the summer after completing NRSRG 332 - Medical-Surgical II and prior to entering NRSRG 430/NRSRG 440 The Childbearing Family and The Developing Child (hours will vary, but a min. of 300)

International students who are at Andrews University on F-1 student visa, must obtain government authorization for paid employment. The Andrews University Office of International Student Services will facilitate the job petition to work in a healthcare facility in order to meet the program requirements. Students may not be allowed to progress in the nursing program unless these qualifications are met, except by approval of faculty. A form signed by the facility where the student works must be submitted to their advisor prior to registering for fall courses.

2. Be expected to complete the BS Pre-licensure program within 3-4 years, beginning with NRSRG 216 - Fundamentals of Nursing Theory and Practice.

Admission Requirements

Application for admission may require a minimum of six weeks for processing evaluation. The deadline for applications is May 15 to be considered for entry into the nursing program in the Fall Semester.

- Minimal overall GPA of 3.00
- BIOL 221, BIOL 222, CHEM 110 FDNT 230, PSYC 101, PSYC 301, Minimal combined GPA for cognates of 3.00. A grade of C- is unacceptable for any cognate course.
- Acceptable SAT or ACT Math scores or a higher level math class with a grade of C or better.

- Nelson Denny Reading Test score of 15 or greater
- An acceptable criminal background check from company recommended by Department of Nursing—to include Berrien County.
- Physical examination report that must include:
 - a. Tuberculin skin test (if positive a chest x-ray is required, will be evaluated individually) and yearly evaluation thereafter
 - b. Proof of immunization or serum immunity for MMR1 and MMR2 (measles, mumps, rubella, rubeola), T-dap (Tetanus, Diphtheria, Pertussis), and hepatitis B
 - c. Proof of either having had chickenpox (dates of disease or tested for varicella-zoster antibodies) or the immunization
- Must complete KAPLAN Pre-Admission exam with pre-established score as determined by the Department of Nursing.
- Meeting the minimum requirements does not guarantee admission.

Orientation

All students admitted into the nursing program will be required to complete a 2-day orientation before beginning the Fall Semester. During this process, they will be required to do:

- Finger printing.
- A urine drug screen that must be completed 20-30 days prior to the start of the first clinical rotation (check with the Nursing Office).
- Show proof of CPR Certification of an American Heart Association Healthcare Provider course.

Progression

All undergraduate nursing students need to understand that:

- Nursing courses must be taken in the required sequence.
- A percentage as stated in the department handbook is required to pass each nursing course.
- A test average as stated in the department handbook is required for identified nursing courses.
- No grade lower than a B- is accepted in any undergraduate nursing course.
- A minimum GPA of 3.00 is required for cumulative cognate GPA (with no grade lower than a C in any cognate) and cumulative overall GPA.
- Independent study courses cannot replace required nursing courses.
- Students wishing to transfer in nursing credits must have course work evaluated by the Nursing Department—Admissions and Progression's Committee. (Please allow a minimum of six weeks prior to the beginning of classes for evaluation.)
- Annual flu shots are required.
- Maintaining a current certification of the American Heart Association Health Care Provider CPR course is required.
- There is an annual review of required health care competencies. (See Handbook for specifics)
- Any student on a Leave of Absence for two years or more, must have a readmission reevaluation of both clinical and theoretical knowledge.
- Class attendance is required: The Department of Nursing will uphold University Policy.
- Clinical attendance is required: See p. 19 and p. 20 of the Department of Nursing Handbook.
- Student will be asked to withdraw from the nursing program if one or more nursing courses are failed at any time.
- Students have the right to reapply to the program.
- Readmission will be considered on an individual basis.
- Student will be required to show competence via a standardized external exam and remediation before progressing to certain classes.
- Academic performance alone does not ensure completion of the nursing preparation. Students must also continuously meet acceptable professional ethics, disposition and safety standards as determined by the admissions and progressions committee.
- Drug screening and criminal background checks are required at the beginning of each academic year.

Post-Masters

Doctor of Nursing Practice DNP (Distance Ed)

Program Description

The DNP is designed for nurses seeking a terminal degree in nursing practice and offers an alternative to research-focused doctoral programs. DNP-prepared nurses are well-equipped to fully implement the science developed by nurse researchers prepared in PhD, DNSc, and other research-focused nursing doctorates.

This DNP program offers three tracks:

- BS to DNP (65 Credits)
- MS to DNP (56 Credits)
- MS/APRN to DNP (40 Credits)

Interactive Online Programs

This is a fully interactive online program only (see School of Distance Education Definitions). The courses follow fixed enrollment with semester start and end dates. Participants interact with each other and with instructor throughout all courses. This program does not require any time on campus. Students are encouraged to come to campus for graduation.

Information/Application Process

Students must apply first to the University's School of Graduate Studies and Research at: andrews.edu/apply. Then they must complete criminal background checks, health forms, and drug screen information to be sent to the Department of Nursing at: Marsh Hall, Room 200, 8475 University Boulevard, Berrien Springs, MI 49104 or e-mail to kama@andrews.edu. For questions in the Department of Nursing, call 269-471-3311 or 3312.

Degree Core

All three options take the following core classes the first year: **21 Credits**

- NRSRG 710 - Principles of Epidemiology Credits: 3
- NRSRG 644 - Research Methods for Evaluation and Outcomes of Advanced Clinical Practice Credits: 3
- NRSRG 685 - DNP Advanced Practice Role Credits: 2
- NRSRG 700 - Theoretical Foundations for Scholarship in Advanced Practice Nursing Credits: 2
- NRSRG 705 - Christian Ethics and Advanced Practice Nursing Credits: 2
- NRSRG 616 - Biostatistics for Clinical Data Management Credits: 3
- NRSRG 715 - Organizational Leadership in Health Care Systems Credits: 2
- NRSRG 720 - Information Systems and Patient Care Technology for Health Care Credits: 2
- NRSRG 730 - Health Care Policy for Advanced Practice Nursing Credits: 2

Option 1: BS to DNP - 65

(Family Nurse Practitioner) focus. This track offers nurses with a BS degree in nursing the opportunity to complete a terminal degree in nursing practice, without needing to achieve the MS degree first.

Additional Core Requirements: 4 credits

- NRSRG 726 - Interpersonal Dynamics and Cultural Issues in Advanced Practice Nursing Credits: 2
- NRSRG 727 - Clinical Health Promotion and Disease Prevention of Populations Credits: 2

FNP Nurse Practitioner Concentration: 40 Credits

- NRSRG 748 - Advanced Pathophysiology Across the Lifespan Credits: 3
- NRSRG 755 - Advanced Health Assessment Across the Lifespan Credits: 3
- NRSRG 756 - Advanced Health Assessment Practicum Credits: 2
- NRSRG 760 - Advanced Pharmacology Across the Lifespan Credits: 3
- NRSRG 763 - Primary Care Management of Adults Credits: 3
- NRSRG 764 - Primary Care Management of Adults Practicum Credits: 2
- NRSRG 765 - Primary Care Management of Maternal/Child Health Credits: 4
- NRSRG 766 - Primary Care Management of Maternal/Child Health Practicum Credits: 3
- NRSRG 767 - Evidence-based Family Nurse Practitioner Primary Care Management Credits: 3
- NRSRG 768 - Evidence-based Family Nurse Practitioner Primary Care Management Practicum Credits: 6
- NRSRG 770 - Teaching Strategies Credits: 3
- NRSRG 775 - Learning Theories and Health Teaching Credits: 2
- NRSRG 801 - Capstone Scholarly Project I Credits: 2

- NRSRG 802 - Capstone Scholarly Project II Credits: 1

Option 2: MS to DNP - 56

(Family Nurse Practitioner - FNP) focus. This track offers nurses with an MS degree in nursing, that is not advanced practice focused, the opportunity to complete a terminal degree in nursing practice.

FNP Nurse Practitioner Concentration: 35 Credits

- NRSRG 748 - Advanced Pathophysiology Across the Lifespan Credits: 3
- NRSRG 755 - Advanced Health Assessment Across the Lifespan Credits: 3
- NRSRG 756 - Advanced Health Assessment Practicum Credits: 2
- NRSRG 760 - Advanced Pharmacology Across the Lifespan Credits: 3
- NRSRG 763 - Primary Care Management of Adults Credits: 3
- NRSRG 764 - Primary Care Management of Adults Practicum Credits: 2
- NRSRG 765 - Primary Care Management of Maternal/Child Health Credits: 4
- NRSRG 766 - Primary Care Management of Maternal/Child Health Practicum Credits: 3
- NRSRG 767 - Evidence-based Family Nurse Practitioner Primary Care Management Credits: 3
- NRSRG 768 - Evidence-based Family Nurse Practitioner Primary Care Management Practicum Credits: 6
- NRSRG 801 - Capstone Scholarly Project I Credits: 2
- NRSRG 802 - Capstone Scholarly Project II Credits: 1

Option 3: MS/APRN to DNP - 40

(Advanced Practice Registered Nurse - APRN) focus. This track offers nurses who already have advanced practice certification and are already functioning as either a: 1) nurse practitioner, 2) nurse anesthetist, or 3) clinical nurse specialist in a particular practice area, the opportunity to complete a terminal degree in nursing practice.

Terminal Degree Concentration: 19 Credits

- NRSRG 770 - Teaching Strategies Credits: 3
- NRSRG 775 - Learning Theories and Health Teaching Credits: 2
- NRSRG 780 - Nursing Education Outcomes Credits: 3
- NRSRG 785 - Curricular Development Credits: 2
- NRSRG 790 - Nursing Education Practicum Credits: 6
- NRSRG 801 - Capstone Scholarly Project I Credits: 2
- NRSRG 802 - Capstone Scholarly Project II Credits: 1

Admission Requirements

Standard admission requirements for Graduate Admission at Andrews University must be met.

GRE: Required.

GPA: 3.25 at admission; with matriculation to 3.5 at graduation.

Experience:

- BS to DNP: must be working while in school to gain nursing experience.
- MS to DNP: must be certified as advanced practice nurse, or working as a MS prepared nurse.

Letters of Recommendation (Three required):

- Supervisor from current employment setting, who can address clinical competence;
- Doctorally prepared faculty member, who can address academic competence and scholarly potential;
- Professional colleague who holds at least a Masters Degree in Nursing.

Portfolio Which Includes:

- Resume/CV
- Three page essay on how they have promoted or advanced the profession of nursing in the past; and goals and objectives for the future, utilizing their advanced education.
- A statement regarding the type of Capstone Scholarly Project they would be interested in.

Language: Must be able to speak English and present work in English.

Nursing Degrees: Must have Degrees that are from schools accredited by ACEN, CCNE, NLNAC in the U.S.; or whatever accrediting organization that exists within their country.

Pre-requisites for BS to DNP: must have undergraduate statistics, research, health assessment and pathophysiology.

Pre-requisites for MS to DNP: must have graduate level statistics, and research.

Credentials: Must have RN license for all options, and Certifications of Advanced Practice for the APRN to DNP option.

Criminal background check: Must have national background check.
Health Status: Immunization and Physical Exam health records required.
Drug Screen: Must submit drug screen for admission, and repeat before beginning clinical practicum.
Interview: with Department.

- Overall graduate GPA of 3.25.
- Current licensure as an RN in the United States or equivalent accreditation in country of residence.
- Positive recommendations by present or recent employers.

Applicants who fail to meet any of the above may be admitted only after committee consideration of the specific circumstances. Additional course work may be required.

Graduation Requirements

Number of Credits

The total number of credits required for the degree of BS-DNP is 65.

Twenty-four (25) credits are DNP Nursing Core courses; and 40 credits are DNP/FNP degree specific. Of those 40, 13 credits are practicum credits. One practicum credit is equal to 80 literal practicum hours. There is no dissertation to speak of, but there is a scholarly project students are to complete.

For those students who are MS prepared, but are not already FNP's and will be completing the MS to DNP curriculum, the total number of credits required for the degree is 56. Twenty-one (21) credits are DNP core courses; and 35 credits are DNP/FNP specific. Of those 35, 13 credits are practicum credits. One practicum credit is equal to 80 literal practicum hours. There is no dissertation to speak of, but there is a scholarly project students are to complete.

For those students who are APRNs and wish to complete their DNP degree, the total number of credits required for the degree is 40. Twenty-one (21) credits are DNP core courses; and 19 credits are DNP terminal degree focused. Of those 19, six credits are for practicum. One practicum credit is equal to 80 literal practicum hours. There is no dissertation to speak of, but there is a scholarly project students are to complete.

In order to graduate, students must have a Grade Point Average (GPA) no lower than 3.5. During the program, students are allowed to receive a B- in one course only; but the GPA must be at least 3.0 when this occurs. Two courses below 3.0 will cause termination of the degree process.

Program Completion Events

- Successful completion of Comprehensive Exam
- Satisfactory completion of the Capstone Project
- Satisfactory completion of supervised Clinical Practicums
- Satisfactory completion of Certification Preparation/Review course

Certificates

Nursing, Post-MS Certificate (Distance Education)

Program Description

For information, contact: Leigh Everhart, everhal@andrews.edu, 269-471-3312.

This program is for nurses (RN's) who have a master's degree in nursing and wish to focus on nursing education. See Financial Information section for examination fees.

Post-MS Nursing Education Certificate Requirements—16

- NRS 515 - Teaching Strategies Credits: 3
- NRS 658 - Learning Theory and Health Teaching Credits: 2
- NRS 660 - Curricular Development Credits: 2
- NRS 665 - Nursing Education Outcomes Credits: 3
- NRS 668 - Roles in Nursing Education Credits: 2
- NRS 680 - Teaching Practicum Credits: 4

Admission Requirements

In addition to the general admission requirements in the Graduate Admissions section of the University bulletin, certain departmental requirements should be noted:

- MS: Nursing degree from an NLNAC or CCNE accredited school or equivalent licensure in country of residence.
- Completion of GRE Exam as per University requirements.

Interactive Online Programs

This is a fully interactive online program only (see School of Distance Education Definitions). The courses follow fixed enrollment with semester start and end dates. Participants interact with each other and with instructor throughout all courses. This program does not require any time on campus. Students are encouraged to come to campus for graduation.

Progression

All graduate nursing students need to understand that:

- Graduate nursing courses must be taken in the required sequence. No grade lower than a B is accepted at the graduate level. One credit of practicum is equal to 75 literal clock hours.
- Academic performance alone does not ensure completion of the nursing preparation. Students must also continuously meet acceptable professional ethics, disposition and safety standards as determined by the practicum site.

Nursing

NRS 211 - Nursing Pharmacology I

Credits: 2 | Beginning nursing knowledge related to pharmacology, medication administration, and related monitoring of therapeutic and non-therapeutic patient response that builds a foundation for safe practice. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** NRS 216 | **Schedule Type:** Lecture | **College Code:** SHP

NRS 212 - Nursing Pharmacology II

Credits: 3 | A continuation of pharmacology principles that examines major classifications of medications. Focuses on uses, dosages, therapeutic and non-therapeutic effects, interactions, and nursing interventions. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRS 211 or permission of the Department of Nursing. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

NRS 215 - Introduction to Professional Nursing Concepts

Credits: 1 | Introduces students to nursing history, mission, standards, language and critical thinking, and applies principles from the Department of Nursing conceptual framework, "Restoration to the Image of God," along with other key nursing concepts. Must be taken spring semester of freshman year. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **Offering:** Fall, Spring | **College Code:** SHP

NRS 216 - Fundamentals of Nursing Theory and Practice

Credits: 5 | Integrates the nursing process into basic nursing skills, medication administration, and assessment of the adult client; with special emphasis on older adults. Includes 3 credits theory and 2 credits practicum. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** BIOL 221, BIOL 222, PSYC 101, PSYC 301, FDNT 230, NRS 215 or permission of the Department of Nursing. | **Schedule Type:** Lecture, Lab, Practicum | **Offering:** Fall | **College Code:** SHP

NRS 240 - Psychiatric-Mental Health Nursing

Credits: 4 | Presents the nurse's role in facilitation of mental health and prevention, assessment and management of mental illness. Includes 3 credits theory and 1 credit practicum. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRS 211, NRS 216, PSYC 101 or permission of the Department of Nursing. | **Schedule Type:** Lecture, Practicum | **Offering:** Spring | **College Code:** SHP

NRS 305 - Health Assessment

Credits: 3 | Introduces theoretical and practical skills for performing a focused and comprehensive health assessment. Emphasizes data collection for recognition of normal findings and common variations throughout the life span, and use of nursing diagnoses to describe areas needing restoration. Includes 2 credits theory and 1 credit lab. | **Course Attribute:** Service course | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRS 216 or RN, LPN; BIOL 221, BIOL 222 or permission of the Department of Nursing. | **Schedule Type:** Lecture, Lab | **Offering:** Spring | **College Code:** SHP

NRS 315 - Pathophysiology

Credits: 3 | Explores physiological adaptations and changes that occur due to chronic and acute illnesses. Provides etiology of disease states to use as a basis for nursing

interventions. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** NRSNG 216. | **Prerequisite(s):** BIOL 221, BIOL 222. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

NRSNG 320 - Professional Nursing Concepts for the RN

Credits: 3 | Introduces and applies principles from the Department of Nursing conceptual framework, "Restoration to the Image of God," along with other key nursing concepts, and bridges educational preparation and role expectation of the associate degree nurse for functioning at the professional level. Must be taken during the first year of schooling by BS-completion students. (Needs to be taken before 418 and 450.) | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall, Summer | **College Code:** SHP

NRSNG 331 - Medical-Surgical I

Credits: 5 | Integrates and applies the nursing process to prevent disease, manage, promote, restore or maintain health for adult clients with acute and chronic medical-surgical conditions. Includes 3 credits theory and 2 credits practicum. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 211, NRSNG 240, NRSNG 305, NRSNG 315. | **Schedule Type:** Lecture, Practicum | **Offering:** Fall | **College Code:** SHP

NRSNG 332 - Medical-Surgical II

Credits: 6 | Integrates and applies the nursing process to restore health, manage disease, and/or provide end-of-life care for adult clients and their families with acute medical-surgical conditions, in acute and critical-care settings. Includes 4 credits theory and 2 credits practicum. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 212, NRSNG 331. | **Schedule Type:** Lecture, Practicum | **Offering:** Spring | **College Code:** SHP

NRSNG 366 - Complementary Wellness and Restoration I

Credits: 1 | Introduces the use of complementary therapies in disease prevention, and health promotion and maintenance towards restoration of clients, families and communities. Specific attention is given to the eight natural laws of health. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

NRSNG 408 - Families in Stress and Crisis

Credits: 2 | Utilizes family systems and other theories as a basis for understanding family functioning. Prepares the students to be able to assess and intervene with families experiencing stress and/or crises. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** NRSNG 331 or permission of the Department. | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 414 - Critical Care Nursing

Credits: 3 | Focuses on the needs of clients with life-threatening conditions in an acute care setting; which may present in multiple body systems. Special needs of pediatric and elderly clients addressed as well. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRSNG 332 for NCLEX-preparatory students, NRSNG 315, NRSNG 408, NRSNG 430, NRSNG 440. | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

NRSNG 416 - Comprehensive Overview

Credits: 2 | Review of knowledge to serve as preparation of pre-licensure students for the NCLEX. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 430, NRSNG 440. | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

NRSNG 418 - Leadership in Nursing

Credits: 3 | Provides opportunity for the student to gain knowledge in nursing leadership. Promotes the utilization of restorative principles in leadership theory and practice. Prepares students for leadership roles in all areas of nursing, and instills the pursuit of lifelong learning and professional development. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 332; or NRSNG 320. | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 430 - The Childbearing Family

Credits: 4 | Emphasizes restorative and evidence-based nursing care of the childbearing family throughout preconception, pregnancy, postpartum, and the neonatal period with an added focus on women's health issues. Includes 3 credits theory and 1 credit practicum. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 332, PSYC 301. | **Schedule Type:** Lecture, Practicum | **Offering:** Fall | **College Code:** SHP

NRSNG 438 - Intercultural Mission Service in Nursing

Credits: 2 | * Field service credit requirements are met in this class. Prepares students to apply principles of the Andrews University Department of Nursing conceptual framework, "Restoration to the Image of God," while providing Christian nursing care and service in a worldwide context. Course includes principles and preparation for intercultural nursing practice. | **Course Attribute:** Service course | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite/Corequisite:** NRSNG 430, NRSNG 440;

or NRSNG 414. | **Schedule Type:** Lecture, Blended Learning, Interactive Online | **Offering:** Fall, Spring | **College Code:** SHP

NRSNG 440 - The Developing Child

Credits: 4 | Emphasizes an evidence-based nursing practice in both the maintenance and restorative health needs of the growing and developing child, from newborn through adolescence. Includes 3 credits theory and 1 credit practicum. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSNG 332, PSYC 301. | **Schedule Type:** Lecture, Practicum | **Offering:** Fall | **College Code:** SHP

NRSNG 445 - Nursing Research

Credits: 3,4 | Provides foundational concepts on the research process and steps for utilizing research with the focus being on evidence-based practice. Introduces nursing perspectives related to critical thinking, scientific methods, ethical concerns, and search techniques necessary to the research process. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRSNG 331 or NRSNG 320; or permission of the Department of Nursing. (BS - Completion students take the class for 4 credits.) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

NRSNG 450 - Community Nursing

Credits: 4 | * Field service credit requirements are met in this class. Focuses on community as the primary client, in contrast with community as the setting for individual care. Students consider factors affecting the wellbeing, function, and/or existence of the community and its response to those problems. Includes 2 credits theory and 2 credits practicum. | \$ - Course or lab fee | **Course Attribute:** Service course | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRSNG 418, NRSNG 430, NRSNG 440; for BS -Completion NRSNG 320, and NRSNG 418. | **Schedule Type:** Lecture, Practicum | **Offering:** Spring | **College Code:** SHP

NRSNG 460 - Topics in _____

Credits: 1 | Study of selected topics relevant to professional nursing practice. Subject and credits to be announced in advance. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **College Code:** SHP

NRSNG 466 - Complementary Wellness and Restoration II

Credits: 2,3 | An in-depth exploration of complementary therapies that can be utilized in conjunction with traditional therapies to assist clients with a chronic illness or high acuity need towards restoration to the image of God in wellness, health maintenance and disease management. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** NRSNG 414 | **Prerequisite(s):** NRSNG 366, NRSNG 418 or permission of the Department of Nursing. (BS -Completion students take the class for 3 credits.) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

NRSNG 478 - Study Tour:

Credits: 0 | Travel to selected areas combined with lectures, directed readings, projects and assignments. The amount of credit and the geographic area are designated at the time a study tour is announced. Fee may be required. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Schedule Type:** Blended Learning | **College Code:** SHP

NRSNG 480 - Senior Nursing Internship

Credits: 3 | A capstone practicum that integrates nursing skills and knowledge with principles of daily practice. Takes place in acute care settings where the student manages groups of clients in conjunction with a preceptor (120 clock hours). Includes 1 credit seminar and 2 credits practicum. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Corequisite(s):** NRSNG 414, NRSNG 450. | **Prerequisite(s):** NRSNG 418, NRSNG 430, NRSNG 440. | **Schedule Type:** Practicum | **Offering:** Spring | **College Code:** SHP

NRSNG 495 - Independent Study_____

Credits: 1 | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

NRSNG 515 - Teaching Strategies

Credits: 3 | Explores the knowledge and competencies needed to develop and apply evidence based innovative teaching strategies in the classroom and clinical settings. Strategies for distance and web-based learning are also included. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 616 - Biostatistics for Clinical Data Management

Credits: 3 | Introduces statistical concepts and analytical methods as applied to data encountered in biomedical sciences. It emphasizes the basic concepts of experimental design, quantitative analysis of data, and statistical references. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

NRSG 644 - Research Methods for Evaluation and Outcomes of Advanced Clinical Practice

Credits: 3 | The focus of this course is to provide the knowledge and skills to generate evidence-based knowledge using scientific inquiry to improve outcomes in patient care. The components of research and evaluation processes are explored, culminating in the dissemination of research, evaluation and other evidence-based materials to healthcare professionals. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSG 658 - Learning Theory and Health Teaching

Credits: 2 | Provides advanced practice nurses with evidence based knowledge regarding educational theories and their application in academic and clinical settings for successful instruction and teaching of clients, community, nursing students and other healthcare professionals. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSG 660 - Curricular Development

Credits: 2 | Provides students with knowledge related to analysis, development or design, and redesign or improvement, and evaluation of client, student, or professional nursing curricula. Instruction on principles and procedures for curricular development will be addressed. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSG 665 - Nursing Education Outcomes

Credits: 3 | Students are provided information on methods for assessing overall educational outcomes, such as the individual patient education, classroom instruction, and in providing continuing education units for professional nurses. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** NRSG 668 | **Prerequisite(s):** NRSG 658, NRSG 660. | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 668 - Roles in Nursing Education

Credits: 2 | Explores the various teaching and faculty roles that impinge upon the nurse educator. An understanding of the requirements of scholarship activities such as clinical currency, academic productivity, and teaching expertise are examined. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** NRSG 658, NRSG 660. | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 670 - Project Continuation

Credits: 0 | Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full-time status. | \$ - Course or lab fee | **Course Attribute:** Full-time status | **Grade Mode:** Noncredit (NC,W) | **Schedule Type:** Independent | **College Code:** SHP

NRSG 675 - Program Continuation

Credits: 0 | Students may register for this non-credit continuation course to maintain active status. Please see active status for additional information. Registration does not indicate full-time status. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

NRSG 680 - Teaching Practicum

Credits: 4 | Provides the student with the opportunity to utilize knowledge gained in the nursing-education courses, in a nursing-focused educational experience of their choosing. A total of 300 clock hours are required. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** NRSG 515, NRSG 658, NRSG 660, NRSG 665, NRSG 668. | **Schedule Type:** Practicum | **Offering:** Summer | **College Code:** SHP

NRSG 685 - DNP Advanced Practice Role

Credits: 2 | This course explores the various roles of the Doctor of Nursing Practice Family Nurse Practitioner. Areas discussed include patient care, health professional education, health policy, research, leadership and more. Special focus is on Advanced practice. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSG 690 - Independent Study

Credits: 1 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

NRSG 700 - Theoretical Foundations for Scholarship in Advanced Practice Nursing

Credits: 2 | Helps students examine theories from the fields of nursing, philosophy, biology, theology, humanities, psychology, sociology, behavior, and health beliefs, along with the Conceptual Framework of the Department of Nursing to build the underpinnings and foundational basis for their advanced practice. In addition, conceptualizations of person, environment, and health are explored as theories are examined. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSG 705 - Christian Ethics and Advanced Practice Nursing

Credits: 2 | A study and exploration of ethical problems and dilemmas faced by Advanced Practice nurses in diagnosing, treating, billing, and communicating about care to clients, families, healthcare systems, community, and society as a whole. In addition, it provides strategies for addressing ethical dilemmas based within a Christian context. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSG 710 - Principles of Epidemiology

Credits: 3 | Introduces the basic principles and applications of epidemiology. It describes the distribution and determinants of disease in human population; and introduces students to the theory, methods and body of knowledge of epidemiology. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

NRSG 715 - Organizational Leadership in Health Care Systems

Credits: 2 | This course introduces the student to the science of complex organizational structures and designs, with an emphasis on leadership within complex health care systems. It focuses on health care environments in various venues such as: professional, organizational, political, government and more. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 720 - Information Systems and Patient Care Technology for Health Care

Credits: 2 | This course focuses on information technology and its application in health care settings. Content covered includes theoretical models of nursing informatics and database management, in the context of health care systems. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 726 - Interpersonal Dynamics and Cultural Issues in Advanced Practice Nursing

Credits: 2 | Provides advanced knowledge related to underlying interpersonal concepts, skills, and practical approaches, specifically for relationship building across various cultures as an advanced practice nurse. It is also important for effective communication in regards to all areas of health care cross culturally. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSG 727 - Clinical Health Promotion and Disease Prevention of Populations

Credits: 2 | Explores theories of health promotion and disease prevention at the advanced practice level, with emphasis on patient education, epidemiology, health beliefs, and the eight natural laws of health. The health care provider is provided with tools for directing and managing preventive care of various populations across the lifespan. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 730 - Health Care Policy for Advanced Practice Nursing

Credits: 2 | This course examines concepts of health care policy and political behavior, and generates strategies for exercising professional leadership in effecting change in health disciplines. The role of the DNP FNP in health politics for the workplace, organization, government and community will be presented. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSG 748 - Advanced Pathophysiology Across the Lifespan

Credits: 3 | The focus of this course is the application of advanced pathophysiologic concepts for frequently encountered conditions in clinical practice. It provides an in-depth analysis of epidemiology, risk factors, etiology, pathophysiology, clinical manifestations, and laboratory tests for selected acute and chronic illnesses across the lifespan. This is not an introductory course. It is expected that students already have a basic understanding of anatomy, physiology, pathophysiology, physical assessment, laboratory testing and pharmacology. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Summer | **College Code:** SHP

NRSG 755 - Advanced Health Assessment Across the Lifespan

Credits: 3 | The focus of this course is the development of advanced health history and physical examination skills across the lifespan. Emphasis is on interview, communication, and psychomotor skill development, with an end goal of facilitating diagnoses of illness and disease. It also includes concepts related to health assessment which supports the basic tenets of health promotion and disease prevention. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Summer | **College Code:** SHP

NRSG 756 - Advanced Health Assessment Practicum

Credits: 2 | This course requires 150 literal hours of practicum in a primary care setting in which the student solidifies and strengthens their assessment skills and abilities on well and ill patients across the lifespan. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **Offering:** Summer | **College Code:** SHP

NRSNG 760 - Advanced Pharmacology Across the Lifespan

Credits: 3 | This course is designed to provide students with the knowledge and skills to select drug therapy for patients throughout the lifespan based on efficacy, safety, and cost for the management of select illnesses. The course also provides information about state and federal legal requirements for advanced practice nurse prescriptive authority. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 763 - Primary Care Management of Adults

Credits: 3 | The focus of this course is the clinical primary care assessment, diagnosis and management of acute illness of adults at the advanced practice level. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 764 - Primary Care Management of Adults Practicum

Credits: 2 | This course requires 150 literal hours of practicum in a primary care setting specific to adults. The focus is for students to integrate assessment data, and apply strategies for diagnosing and managing acute and chronic illnesses of adult patients. Students are expected to apply theoretical knowledge gained from the primary care management of adults class. Students will be expected to pay attention to role development issues, collaborative and independent practice issues, as well as problem-solving. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **Offering:** Fall | **College Code:** SHP

NRSNG 765 - Primary Care Management of Maternal/Child Health

Credits: 4 | The focus of this course is the clinical primary care assessment, diagnosis and management of women who are pregnant and require prenatal, delivery and post-natal care related to health promotion and disease prevention, ending in a normal and safe delivery. By virtue of the pregnancy, it also incorporates safe primary care of the fetus during pregnancy as well. This class also provides theoretical knowledge in the primary care of pediatrics, with special emphasis on integrating assessment, diagnosis and management of acute and chronic illness of children, at the advanced practice level. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSNG 766 - Primary Care Management of Maternal/Child Health Practicum

Credits: 3 | This course requires 225 literal hours of practicum. Half are to be completed in a primary care, prenatal care or women's health clinic, and the other half in a primary care pediatric clinic. The focus is for students to integrate assessment data, and apply strategies for diagnosing and managing the well pregnant patient and her fetus; as well as children. Students are expected to apply theoretical knowledge gained from the primary care management of maternal/child health class. Students will be expected to pay attention to role development issues, collaborative and independent practice issues, as well as problem-solving. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **Offering:** Spring | **College Code:** SHP

NRSNG 767 - Evidence-based Family Nurse Practitioner Primary Care Management

Credits: 3 | This course provides a theoretical approach to advanced practice nursing as an FNP. Students are given knowledge, skills, and abilities related to primary care assessment, diagnosis, and management of acute and chronic illness and disease, as well as health promotion and disease prevention strategies of patient care across the lifespan. Students will examine the limits and boundaries of primary care in this role, juggling all roles and areas. Further, it includes issues related to scope of practice, billing, and more specific to Family Nurse Practitioners. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSNG 768 - Evidence-based Family Nurse Practitioner Primary Care Management Practicum

Credits: 6 | This course requires 450 literal hours of practicum all as a Family Nurse Practitioner under the preceptor-ship of a family nurse practitioner. In this practicum, students are to provide comprehensive care to patients across the lifespan that includes: assessment, diagnosis, prevention and management of care for acute and chronic illness and disease. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **Offering:** Summer | **College Code:** SHP

NRSNG 770 - Teaching Strategies

Credits: 3 | This course explores the knowledge and competencies needed to develop and apply evidence-based innovative teaching strategies in the classroom and clinical settings. Strategies for distance and web-based learning are also included. |

Grade Mode: Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSNG 775 - Learning Theories and Health Teaching

Credits: 2 | Provides advanced practice nurses with evidence-based knowledge regarding educational theories and their application in academic and clinical settings for successful instruction and teaching of clients, families, and populations. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSNG 780 - Nursing Education Outcomes

Credits: 3 | Students are provided information on methods for assessing overall educational outcomes, such as the individual patient education, classroom instruction, and in providing continuing education units for professional nurses. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Summer | **College Code:** SHP

NRSNG 785 - Curricular Development

Credits: 2 | Provides students with knowledge related analysis, development or design, and redesign or improvement, and evaluation of client, student, or professional nursing curricula. Instruction on principles and procedures for curricular development will be addressed. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall | **College Code:** SHP

NRSNG 790 - Nursing Education Practicum

Credits: 6 | This course requires 450 literal hours of practicum which would provide students with the opportunity to utilize knowledge gained in the nursing education courses, in a nursing focused educational experience of their choosing. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **Offering:** Fall | **College Code:** SHP

NRSNG 801 - Capstone Scholarly Project I

Credits: 2 | The purpose of this project is to synthesize knowledge and skills attained in the doctorate program of nursing, in an activity that directly moves research into clinical practice and positively influences patient care. The project culminates with a written scholarly paper and the development, implementation, and evaluation of a protocol for a specific health care. | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

NRSNG 802 - Capstone Scholarly Project II

Credits: 1 | The completion of work begun in Capstone Scholarly Project I. | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Independent | **Offering:** Fall | **College Code:** SHP

Public Health, Nutrition & Wellness

Mission

The mission of the Andrews University Department of Public Health, Nutrition & Wellness:

To prepare public health, nutrition, dietetic, fitness, and wellness professionals for service in their church, society and the world, by inspiring the community at large to affirm the Adventist lifestyle, including the vegetarian diet, benefits of regular exercise, fitness and a balanced life.

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Fitness & Exercise Science

Marsh Hall,
269-471-3254
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Faculty

Sherine Brown-Fraser, PhD, RD, CPT
Chair, Associate Professor

Dixon Anjejo, DrPH
Director, MPH Program & Associate Professor

Carol Burtneck, RD, MS
Assistant Professor

Magaly Hernandez, RD, MPH
Director, Internship Program in Nutrition and Dietetics & Assistant Professor

Gretchen Krivak, RD, MS, CGFI
Director, Didactic Program in Nutrition and Dietetics & Assistant Professor

Jasel McCoy, DrPH(c), MS, MBA
Director, Fitness and Exercise Science & Assistant Professor

Maximino Mejia, DrPH, RD
Liaison, MDiv/MPH Program & Associate Professor

Gregg Morrow, MS
Director, Aquatics & Instructor

Eric Paddock
Gymnics Coach & Instructor

Emmanuel Rudatsikira, DrPH, MPH, MDiv
Professor and Dean

Adjunct Faculty

Jaela Cornelejo, B.A.
Stephanie Goddard, M.S.

Emeritus

Winston Craig, PhD, RD, MPH
Professor Emeritus

Patricia Mutch, PhD, RD
Associate Professor

Adjunct Professors of Public Health

Z. Marcel-Charles, MD, DrPH
Joycelyn Peterson DrPH, RD, LD
Mark Ghamsary PhD
Fred Hardinge DrPH
Marc-Daniel Gutekunst, PhD, DIH&TM, MPH, CFII, MEI, CPL
Zaidia Cordero-McIntyre, PhD
Jessica Miller, MA, DrPH (c)
Sozina Katuli, DrPH
Olukemi Adeoye BDS, MPH, Instructor

Bachelors

Exercise Science BS

Admission Requirements

Prospective exercise science students are accepted into the Wellness (Fitness Emphasis) BHS (Non-Professional Program). To transition into the professional program, students need to apply to the Director of the Fitness and Exercise Science Program in their sophomore year for acceptance into the BS Exercise Science by May 1 for the following fall semester. Successful completion of all prerequisites courses listed below with a minimum cumulative GPA of 3.0, and a minimum overall GPA of 2.5 in the sciences and FTES courses, is required for entry into BS Exercise Science. Upon acceptance into the professional program, the student's major will be changed to BS Exercise Science.

Graduation Requirements

ACE or ACSM CPT (Certified Personal Trainer) Certification is required (to pass) before a student can graduate with BS: Exercise Science. A minimum grade of C is required in all majors and cognate courses. A minimum cumulative GPA of 3.0 is required for junior acceptance. Students are expected to complete a professional development portfolio during the BHS Wellness program outlining their goals and accomplishments, including required hours of professional experience (based on class standing and previous experience). Successful completion of the portfolio is required for graduation.

Required Courses - 47

- FDNT 230 - Nutrition Credits: 3
- FTES 325 - Sports Nutrition Credits: 3
- FDNT 448 - Nutrition and Wellness Credits: 3
- FDNT 460 - Seminar Credits: 1,2
- FDNT 498 - Research Methods Credits: 2
- HLED 210 - Philosophy of Health Credits: 3
- HLED 380 - Natural Therapies Credits: 3 or NRSG 466 - Complementary Wellness and Restoration II
- HLED 411 - Community Health & Fitness I Credits: 2
- HLED 412 - Community Health & Fitness II Credits: 2
- HLED 445 - Consumer Health Credits: 2
- FTES 305 - Current Concepts and Applications in Physical Fitness Credits: 3
- FTES 355 - Methods of Fitness Instruction Credits: 3
- FTES 410 - Issues in Exercise Studies Credits: 2
- FTES 465 - Exercise Physiology Credits: 4
- two additional FTES activity courses (1 credit each) selected in consultation with your advisor
- FTES 475 - Kinesiology Credits: 3
- FTES 497 - Internship Credits: 2
- PSYC 210 - Introduction to Health Psychology Credits: 3

Required Cognates - 28

- BIOL 221 - Anatomy and Physiology I Credits: 4
- BIOL 222 - Anatomy and Physiology II Credits: 4
- BSAD 355 - Management and Organization Credits: 3
- MKTG 310 - Principles of Marketing Credits: 3
- PSYC 471 - Behavior Modification Credits: 3
- CHEM 110 - Introduction to Inorganic Chemistry Credits: 4
- BCHM 120 - Introduction to Organic and Biological Chemistry Credits: 4
- STAT 285 - Elementary Statistics Credits: 3

General Education Requirements

See professional program requirements and note the following specific requirements:

Religion - Equivalent of one course per year of full-time enrollment at AU.
Required:

Total Credits: 75

Nutrition Science & Dietetics BS

Program Description

The Didactic Program in Nutrition Science & Dietetics (DP) at Andrews University is currently accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, 120 S Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-5400.

This program is designed for students pursuing professional degrees in the fields of Nutrition, Dietetics, Medicine, Dentistry, Public Health, Research and other health related graduate degrees.

The BS Nutrition Science & Dietetics degree has the following two emphases:

Dietetics Emphasis

Nutrition Science Emphasis (Pre-Med, Pre-Dent, Pre-Graduate)

Total Credits: 74

Concentration

Students must select one of the following emphases:

- Dietetics Emphasis
- Nutrition Science Emphasis

Wellness BHS

Required Courses - 13

- FDNT 230 - Nutrition Credits: 3
- FDNT 448 - Nutrition and Wellness Credits: 3
- FDNT 460 - Seminar Credits: 1,2
- HLED 120 - Fit for Life Credits: 1
- HLED 445 - Consumer Health Credits: 2
- FTES 205 - Fitness Conditioning Credits: 1

Required Cognates - Minimum of 12

Choose one of the following:

- BIOL 260 - General Microbiology Credits: 4
- Or
- MLSC 230 - Fundamentals of Clinical Microbiology Credits: 3
- Or
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- Or
- PHYS 141 - General Physics I Credits: 4
- **And** PHYS 142 - General Physics II Credits: 4

Choose one of the following:

- BIOL 221 - Anatomy and Physiology I Credits: 4
- BIOL 222 - Anatomy and Physiology II Credits: 4
- Or
- BIOL 165 - Foundations of Biology Credits: 5 or 4
- BIOL 166 - Foundations of Biology Credits: 5 or 4
- Or
- BIOL 165 - Foundations of Biology credits: 3
- BIOL 221 - Anatomy and Physiology I Credits: 3
- Or
- BIOL 100 - Human Biology Credits: 4

Or

- BIOL 221 - Anatomy and Physiology I Credits:4 (SPLAD emphasis only)

Choose one of the following:

- CHEM 110 - Introduction to Inorganic Chemistry Credits: 4
- BCHM 120 - Introduction to Organic and Biological Chemistry Credits: 4
- Or
- CHEM 131 - General Chemistry I Credits: 4
- BCHM 120 - Introduction to Organic and Biological Chemistry Credits:4
- Or
- PHYS 225 - Sound and Waves Credits: 4 (SPLAD emphasis only)

Electives: - 5 to 12 (depending on emphasis selected)

In consultation with advisor. A student needs to maintain a cumulative GPA of 2.50 or greater in all credits used to meet the BHS degree requirements.

General Education Requirements for Nutrition, Fitness and Speech Pathology emphasis

See professional program requirements, see here, and note the following specific requirements:

Religion:

- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credit: 3
One religion course per academic year of attendance in a Seventh-day Adventist college or university.

Social Sciences:

Psychology

An introductory psychology course.

- PSYC 101 - Introduction to Psychology Credits: 3 or PSYC 301 - Human Development or similar PSYC course

Fitness Education:

recommend Andrews freshmen take HLED 120 and one additional course from personal fitness, outdoor skills or team activity. Non-Andrews students take two from the three categories above.

- HLED 120 - Fit for Life Credits: 1

Graduation Requirements

Students are expected to complete a professional development portfolio during the BHS Wellness program outlining their goals and accomplishments, including required hours of professional experience (based on class standing and previous experience). Successful completion of the portfolio is required for graduation.

ACE or ACSM Certification

The Department of Public Health, Nutrition & Wellness offers the option for certification from the American Council on Exercise (ACE) or American College of Sports Medicine (ACSM) in the following areas: Certified Personal Trainer, Group Fitness Instructor, Lifestyle & Weight Management Consultant, and Advanced Health & Fitness Specialist. The exams for these certifications will be held on-campus.

Emphasis - Choose one of the following:

Speech Pathology - 29

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3

- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 332 - Audiological Procedures Credits: 3 or SPPA 425 - Clinical Principles and Practices
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3

Fitness - 23

- FTES 210 - Personal Fitness Plan Credits: 1
- FTES 214 - Weight Training and Conditioning (Men/Women) Credits: 1 could be replaced by: FTES 214-002 - Women's Strength Training and Toning
- FTES 305 - Current Concepts and Applications in Physical Fitness Credits: 3
- FTES 355 - Methods of Fitness Instruction Credits: 3
- FTES 410 - Issues in Exercise Studies Credits: 2
- FTES 465 - Exercise Physiology Credits: 4
- FTES 495 - Independent Study/Reading/Research/Project Credits: 1
- FTES 475 - Kinesiology Credits: 3
- HLED 380 - Natural Therapies Credits: 3 or , NRS 366 - Complementary Wellness and Restoration I , NRS 466 - Complementary Wellness and Restoration II

Nutrition - 30

- FDNT 118 - The Profession of Dietetics Credits: 1
- FDNT 124 - Food Science Credits: 3
- FDNT 310 - Nutrition in the Life Cycle Credits: 3
- FDNT 351 - Food Service Management I Credits: 3
- FDNT 352 - Food Service Management II Credits: 3
- FDNT 421 - Community Nutrition I Credits: 2
- FDNT 422 - Community Nutrition II Credits: 2
- FDNT 476 - Nutrition and Aging Credits: 2
- FDNT 498 - Research Methods Credits: 2
- BSAD 355 - Management and Organization Credits: 3
- BSAD 384 - Human Resource Management Credits: 3
- MKTG 310 - Principles of Marketing Credits: 3

Total Credits for BHS Wellness - Nutrition Emphasis: 60

Total Credits for Fitness Emphasis: 60

Total Credits for Speech Pathology and Audiology Emphasis: 60

Undergraduate Minors

Fitness Education Minor

This minor is not approved for Michigan elementary or secondary teaching certification.

If student seeks to take an ACE National Fitness Certification Exam, it is recommended they also take FTES 465 prior to the exam.

Fitness and Exercise Courses

Each class includes both the fitness component as well as skills instruction. The goals of the fitness & exercise courses are:

- To aid individuals in the development of Christlike attitudes and conduct in recreational activities, and to promote learning opportunities for cooperative teamwork.
- To promote the development of physical fitness and physical skills that will continue throughout life and enhance the quality of one's life.
- To provide a variety of physical activities designed to meet the needs and desires of a diverse student population.

Required Courses

- BIOL 221 - Anatomy and Physiology I Credits: 4
- BIOL 222 - Anatomy and Physiology II Credits: 4
- FTES 205 - Fitness Conditioning Credits: 1
- FTES 214 - Weight Training and Conditioning (Men/Women) Credits: 1
- FTES 214-002 - Women's Strength Training and Toning Credits: 1
- FTES 305 - Current Concepts and Applications in Physical Fitness Credits: 3
- FTES 355 - Methods of Fitness Instruction Credits: 3
- FDNT 230 - Nutrition Credits: 3

ACE Certification

Students taking the Minor in Fitness Education have the option of sitting for the Personal Trainer or Group Fitness Instructor Certification that is offered through the American Council on Exercise (ACE). The tests will be offered on-campus.

Total Credits: 20

Health Minor

Required Courses

- FDNT 230 - Nutrition Credits: 3
- FDNT 240 - Nutrition Laboratory Credits: 1
- HLED 120 - Fit for Life Credits: 1
- HLED 210 - Philosophy of Health Credits: 3
- HLED 445 - Consumer Health Credits: 2
- FTES 214 - Weight Training and Conditioning (Men/Women) Credits: 1 OR FTES 214-002 - Women's Strength Training and Toning Credits: 1
- Plus 9 credits selected from HLED, FDNT, FTES OR other health-related courses approved by the program director.

Total Credits: 20

Nutrition and Wellness Minor

Required courses

Must include

- FDNT 124 - Food Science Credits: 3
- FDNT 230 - Nutrition Credits: 3
- FDNT 310 - Nutrition in the Life Cycle Credits: 3
- FDNT 448 - Nutrition and Wellness Credits: 3
- FDNT 460 - Seminar Credits: 1,2
- HLED 120 - Fit for Life Credits: 1
- plus 6 credits selected from the Department of Nutrition and Wellness approved by the director of the Dietetics program.

Total Credits: 20

Masters

Master of Public Health, Nutrition and Wellness Concentration MPH

Delivery: This program is offered in an interactive online format (see School of Distance Education Definitions). The interactive online degree does not require any on-campus time.

Total Credits: 42

Degree Requirements

In addition to the Graduate Academic Requirements for graduate degrees the following departmental requirements should be noted:

- A minimum of 42 semester credits
- Public Health Core - 17 Credits
- Research - 8 Credits
- Concentration - 15 Credits
- Practicum - 2 Credits
- Culminating Activity

Public Health Core - 17

- 2 Credits of PBHL 500 - Introduction to Public Health Credits: 2
- PBHL 511 - Biostatistics Credits: 3
- PBHL 521 - Principles of Epidemiology Credits: 3
- PBHL 525 - Principles of Environmental Health Credits: 3
- PBHL 531 - Principles of Health Behavior Credits: 3
- PBHL 535 - Principles of Health Administration Credits: 3

Research - 8

- FDNT 560 - Health Research Methods Credits: 3
- FDNT 680 - Research Seminar Credits: 1
- PBHL 698 - Capstone Research Project Credits: 1+3

Concentration - 15

- FDNT 565 - Current Issues in Nutrition and Wellness Credits: 3
- FDNT 520 - Vegetarian Nutrition and Disease Prevention Credits: 3
- FTES 510 - Fitness and Health Promotion 2 credits required
- PBHL 540 - Grant Writing Credits: 2
- PBHL 545 - Program Planning and Evaluation Credits: 3
- 2 Credits of PBHL 646 - Integration of Spirituality in Health Care Credits: 2–3

Practicum 2 Credits

- 2 Credits of PBHL 580 - Field Practicum Credits: 1–4 (200 hours)

Culminating Activity

Student is required to demonstrate ability to integrate specific areas of public health: Administration, Epidemiology, Statistics, Environmental Health, Health Behavior and Nutrition during culminating activity experiences.

Culminating activity includes: A written comprehensive exam, field experience/research project/dietetic internship after completion of all courses, professional portfolio, and an exit interview with the department chairman at conclusion of program.

Admission Requirements

To be eligible for admission to the MPH program, you must have completed a bachelor's degree or equivalent with a grade point average (GPA) of 3.0 or better (on a 4.0 scale). A limited number of students whose background and experience show potential for success but whose GPAs are less than 3.0 may be admitted on a provisional basis.

Prerequisites

- College-level writing course
- Physiology course
- Two nutrition courses
- Chemistry course
- College Algebra
- College Level Statistics

Masters Dual Degrees

Master of Public Health/Master of Divinity Track 1 Dual Degree MPH/MDiv

Program Description

Andrews University has established a collaborative program between the Master of Divinity Degree of the Seventh-day Adventist Theological Seminary and the Department of Public Health, Nutrition, & Wellness in the School of Health Professions. Students are able to complete two degrees in 4 years; 2 years in the Theological Seminary and 2 years in the Department of Public Health, Nutrition & Wellness. The MDiv is available on campus while the MPH courses are a combination of on campus and online formats.

Completion of the dual degree requires strict adherence to course sequence and curriculum design as students will travel as a cohort through each program.

Total Credits - 114

MPH Degree Requirements - 42

Core Requirements - 16

- 1 credit of PBHL 500 - Introduction to Public Health Credits: 2
- PBHL 511 - Biostatistics Credits: 3
- PBHL 521 - Principles of Epidemiology Credits: 3
- PBHL 525 - Principles of Environmental Health Credits: 3
- PBHL 531 - Principles of Health Behavior Credits: 3
- PBHL 535 - Principles of Health Administration Credits: 3

Health Promotion and Education Concentration - 23

- FDNT 520 - Vegetarian Nutrition and Disease Prevention Credits: 3
- FDNT 565 - Current Issues in Nutrition and Wellness Credits: 3
- FTES 510 - Fitness and Health Promotion Credits: 2,3
- PBHL 526 - Cultural Competence and Minority Health Credits: 2
- PBHL 540 - Grant Writing Credits: 2
- PBHL 545 - Program Planning and Evaluation Credits: 3
- PBHL 550 - Addictions Prevention and Treatment Credits: 3
- PBHL 555 - Health Promotion and Education Seminar Credits: 2
- PBHL 546 - Adventist Health and Healing Credits: 3
- Or 3 credits of PBHL 646 - Integration of Spirituality in Health Care Credits: 2–3

Culminating Experience - 3

- 1 credit of PBHL 580 - Field Practicum Credits: 1–4 (100 hrs required)
- 2 credits of PBHL 698 - Capstone Research Project Credits: 1–3

MDiv Degree Requirements - 72

Interdisciplinary Courses - 14

- GSEM 510 - Revelation, Inspiration and Hermeneutics Credits: 3
- 2 credits of GSEM 530 - Doctrine of the Sanctuary Credits: 2,3
Recommended: Completion of Hebrew I (OTST 551)

- 2 credits of GSEM 534 - Issues in Ellen G. White Studies Credits: 2,3
- 2 credits of GSEM 539 - Issues in Origins Credits: 2,3
- 2 credits of GSEM 626 - Contemporary Adventist Theological Issues Credits: 2,3
- GSEM 627 - Issues in Daniel and Revelation Credits: 3
(Prereq: C+ completion/Exam pass of Int. Greek and Hebrew II)

Christian Ministry - 17

- CHMN 539 - Church Growth and the Equipping Pastor Credits: 3
 - CHMN 543 - Christian Leadership in a Changing World Credits: 3
 - 2 credits of CHMN 555 - Pastoral Counseling Credits: 2,3
- Choose one (2 credit) course from each of the sets below.**
- CHMN 656 - Holistic Small Groups Credits: 2,3
 - Or 2 credits of CHMN 566 - Mobilizing Laity for the Ministry of Evangelism Credits: 2,3
- CHMN 621 - Evangelistic Preaching Credits: 2,3
 - Or CHMN 631 - Field Evangelistic Preaching Credits: 2
- CHMN 523 - Worship: Word and Music Credits: 2,3
 - Or CHMN _____ - Advanced Preaching elective (600-level) Credits: 2
- CHMN 553 - The Church and Social Issues Credits: 2,3
 - Or MSSN 505 - Christian Responses to Human Needs Credits: 2,3

Discipleship and Religious Education - 8

- DSRE 503 - Marriage, Family, and Interpersonal Relationships Credits: 3
- 3 credits of DSRE 541 - Foundations of Biblical Spirituality Credits: 2,3
Must be taken first fall semester in program.
- 2 credits of DSRE 534 - Ministry to Youth and Young Adults Credits: 2,3
- Or 2 credits of DSRE 610 - Teaching for Discipleship Credits: 2,3

Church History - 6

- CHIS 674 - Development of Seventh-day Adventist Theology Credits: 3
- Choose a 3 credits (600 Level) course from Church History CHIS list

New Testament - 8

Before registering for New Testament courses, check the course description for Greek Language and/or other course prerequisites.

- Choose one (600 Level) exegesis course Credits: 3
- Choose one (600 Level) theology course Credits: 3
- Choose one (600 Level) backgrounds course Credits: 2

Old Testament - 8

Before registering for Old Testament courses, check the course description for Hebrew Language and/or other course prerequisites.

- Choose one (600 Level) Old Testament Archeology course Credits: 2
- Choose one (600 Level) Old Testament Exegesis course Credits: 3
- Choose one (600 Level) Old Testament Theology course Credits: 3

Theology - 8

- Choose one (600 Level) Systematic Theology course Credits: 2
- Choose one (600 Level) Historical Theology course Credits: 2
- Choose one (600 Level) Ethics course credits: 2
- 2 Credits of THST 540 - Doctrine of Salvation Credits: 2,3

World Mission - 3

- MSSN 546 - Mission in Cultural and Religious Context Credits: 3
- Or MSSN 561 - Christian Witness and World Religions Credits: 3

Certification

The curriculum for the MPH is designed to help prepare students to take the Certified Health Education Specialist Exam (CHES) administered by the National Commission for Health Education Credentialing (NCHEC).

Students will be expected to meet the Seven Areas of Responsibility of a Health Education Specialist.

- Assessing individual and community needs for health education.
- Planning effective health education programs.
- Implementing health education programs.
- Evaluating effectiveness of health education programs.
- Coordinating provision for health education services.
- Acting as a resource person in health education.
- Communicating health and education needs, concerns and resources.

Admission Requirements

Master of Divinity

Baccalaureate Degree: A four-year degree from an accredited United States institution, or its equivalent from an institution outside the U.S.

Undergraduate GPA: A minimum GPA of 2.50.

Recommendations from the Church board where the applicant is a member; College teacher/advisor, and Church administrator, pastor, or recent employer.

Personal Qualifications: Represent high moral integrity with a character, lifestyle, and spiritual commitment reflective of the beliefs and practices of the Seventh-day Adventist Church, and show promise of usefulness for ministry through personal maturity and adequate experience in the Church. (Persons of other faiths who are willing to live in harmony with these standards are welcome to apply).

English Language Requirements

Students whose language of education is not English must submit one of the following tests and minimum scores:

TOEFL Paper-based - 565

TOEFL Internet-based - 85 Minimum 20 in each section (reading, listening, speaking, writing)

MELAB - 81

IELTS - 6.5

PTE - 58

Master of Public Health

Baccalaureate Degree: A four-year degree from an accredited United States institution, or its equivalent from an institution outside the U.S.

Undergraduate GPA: A minimum GPA of 3.00.

GRE: No minimum score if undergraduate is from an accredited United States institution. Minimum score of 290 combined if undergraduate degree is not from an accredited US institution.

Recommendations: Three letters of recommendation from the Church board where the applicant is a member, college teacher/advisor, and church administrator, pastor, or recent employer.

Statement of Purpose

Resume or Curriculum Vitae

Prerequisites:

College level writing

College level algebra

Physiology course

Chemistry course

Two nutrition courses

Note: College level statistics is required for PBHL 511 - Biostatistics.

English Language Requirements

Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Program Objectives

- To prepare students for various forms of ministry in which clinical and administrative skills in public health and theology are needed.

- To enable students to integrate both theological and public health knowledge, values and skills into a multifaceted approach to Christian service, thereby enhancing their usefulness as instruments of the Holy Spirit.
- To sensitize students to nontraditional ministry opportunities by exposing them to theories and practice skills related to nutrition and wellness, environmental health, and health behaviors.

- 2 credits of GSEM 534 - Issues in Ellen G. White Studies Credits: 2,3
Prereq: CHIS 504 - Adventist Heritage
- 2 credits of GSEM 539 - Issues in Origins Credits: 2,3
- 2 credits of GSEM 626 - Contemporary Adventist Theological Issues Credits: 2,3

Master of Public Health/Master of Divinity Track 2 Dual Degree MPH/MDiv

Program Description

Andrews University has established a collaborative program between the Master of Divinity Degree of the Seventh-day Adventist Theological Seminary and the Department of Public Health, Nutrition, & Wellness in the School of Health Professions. Students are able to complete two degrees in 4 years; 2 years in the Theological Seminary and 2 years in the Department of Public Health, Nutrition & Wellness. The MDiv is available on Campus while the MPH is available both on campus and online.

Completion of the dual degree requires strict adherence to course sequence and curriculum design as students will travel as a cohort through each program.

Total Credits - 139

MPH Degree Requirements - 42

Core Requirements - 16

- 1 credit of PBHL 500 - Introduction to Public Health Credits: 2
- PBHL 511 - Biostatistics Credits: 3
- PBHL 521 - Principles of Epidemiology Credits: 3
- PBHL 525 - Principles of Environmental Health Credits: 3
- PBHL 531 - Principles of Health Behavior Credits: 3
- PBHL 535 - Principles of Health Administration Credits: 3

Health Promotion and Education Concentration - 23

- FDNT 520 - Vegetarian Nutrition and Disease Prevention Credits: 3
- FDNT 565 - Current Issues in Nutrition and Wellness Credits: 3
- FTES 510 - Fitness and Health Promotion Credits: 2,3
- PBHL 526 - Cultural Competence and Minority Health Credits: 2
- PBHL 540 - Grant Writing Credits: 2
- PBHL 545 - Program Planning and Evaluation Credits: 3
- PBHL 550 - Addictions Prevention and Treatment Credits: 3
- PBHL 555 - Health Promotion and Education Seminar Credits: 2
- PBHL 546 - Adventist Health and Healing Credits: 3
- Or 3 credits of PBHL 646 - Integration of Spirituality in Health Care Credits: 2-3

Culminating Experience - 3

- 1 credit of PBHL 580 - Field Practicum Credits: 1-4 (100 hrs required)
- 2 credits of PBHL 698 - Capstone Research Project Credits: 1-3

MDiv Degree Requirements - 97

Interdisciplinary Courses - 15

- GSEM 510 - Revelation, Inspiration and Hermeneutics Credits: 3
- GSEM 511 - Daniel and Revelation Credits: 3
Prereq: C+ completion/Exam pass of Beg. Greek and Beg. Hebrew
- GSEM 525 - The Bible and Biblical History Credits: 1
- 2 credits of GSEM 530 - Doctrine of the Sanctuary Credits: 2,3
Recommended: Completion of Hebrew I (OTST 551)

Christian Ministry - 19

- 2 credits of CHMN 505 - Biblical Preaching Credits: 2,3
- 2 credits of CHMN 536 - Personal Evangelistic Ministry Credits: 2,3
- CHMN 539 - Church Growth and the Equipping Pastor Credits: 3
- CHMN 543 - Christian Leadership in a Changing World Credits: 3
- 2 credits of CHMN 552 - Foundations of Pastoral Ministry Credits: 2
- 2 credits of CHMN 555 - Pastoral Counseling Credits: 2,3
- 3 credits of CHMN 631 - Field Evangelistic Preaching Credits: 2
Must be taken at the same time as CHMN662
- 1 credit of CHMN 662 - Field Evangelistic Preaching Practicum Credits: 1
- Or 3 credits of CHMN 621 - Evangelistic Preaching Credits: 2,3
- 2 credits of CHMN 553 - The Church and Social Issues Credits: 2,3
- Or 2 credits of CHMN 656 - Holistic Small Groups Credits: 2,3
- Or 2 credits of MSSN 505 - Christian Responses to Human Needs Credits: 2,3

Discipleship and Religious Education - 8

- DSRE 503 - Marriage, Family, and Interpersonal Relationships Credits: 3
- 3 credits of DSRE 541 - Foundations of Biblical Spirituality Credits: 2,3
Must be taken first fall semester in program.
- 2 credits of DSRE 534 - Ministry to Youth and Young Adults Credits: 2,3
- Or 2 credits of DSRE 610 - Teaching for Discipleship Credits: 2,3
- Or 2 credits of CHMN 523 - Worship: Word and Music Credits: 2,3

Church History - 12

- 3 credits of CHIS 504 - Adventist Heritage Credits: 3
- CHIS 506 - Church History to 1500 Credits: 3
- CHIS 507 - Church History 1500 to Present Credits: 3
- CHIS 674 - Development of Seventh-day Adventist Theology Credits: 3
Prereq: CHIS504-Adventist Heritage

New Testament - 15

- NTST 551 - Beginning Greek Credits: 2 (C- or higher)
- 3 credits of NTST 552 - Intermediate Greek Credits: 2,3 (C or higher)
- NTST 509 - Intro to Exegesis and Theology 3: Pauline Writings Credits: 3
Prereq: C in Inter Greek or pass exam
- NTST 510 - Intro to Exegesis and Theology 1: Gospels Credits: 3
Coreq: NTST 551 or pass Int. Greek
- 2 credits of NTST 515 - New Testament Backgrounds Credits: 2,3
- NTST 543 - Intro to Exegesis and Theology 2: Acts and General Epistles Credits: 2
Coreq: NTST552 or pass Inter Greek

Old Testament - 15

- OTST 551 - Biblical Hebrew I Credits: 3
- 2 credits of OTST 552 - Biblical Hebrew II Credits: 2,3
- OTST 555 - Prophets Credits: 3
Coreq: OTST552 or pass Hebrew placement exam
- OTST 558 - Writings Credits: 2
Coreq: OTST552 or pass Hebrew placement exam
- OTST 565 - Pentateuch Credits: 3
- 2 credits of ANEA 510 - Archaeology and the Bible Credits: 2,3
- Or 2 credits of ANEA 514 - Bible Lands and Their Explorations Credits: 2,3
- Or 2 credits of NTST 615 - New Testament Archaeology Credits: 2,3

Theology - 10

- 2 credits of THST 510 - Understanding the Christian World Credits: 2,3

- 2 credits of THST 521 - Christian Theology I Credits: 2,3
- 2 credits of THST 522 - Christian Theology II Credits: 2,3
- 2 credits of THST 550 - Principles of Christian Ethics Credits: 2,3

World Mission - 3

- MSSN 546 - Mission in Cultural and Religious Context Credits: 3
- Or MSSN 561 - Christian Witness and World Religions Credits: 3

Certification

The curriculum for the MPH is designed to help prepare students to take the Certified Health Education Specialist Exam (CHES) administered by the National Commission for Health Education Credentialing (NCHEC).

Students will be expected to meet the Seven Areas of Responsibility of a Health Education Specialist.

- Assessing individual and community needs for health education.
- Planning effective health education programs.
- Implementing health education programs.
- Evaluating effectiveness of health education programs.
- Coordinating provision for health education services.
- Acting as a resource person in health education.
- Communicating health and education needs, concerns and resources.

Admission Requirements

Master of Divinity

Baccalaureate Degree: A four-year degree from an accredited United States institution, or its equivalent from an institution outside the U.S.

Undergraduate GPA: A minimum GPA of 2.50.

Recommendations from the Church board where the applicant is a member; College teacher/advisor, and Church administrator, pastor, or recent employer.

Personal Qualifications: Represent high moral integrity with a character, lifestyle, and spiritual commitment reflective of the beliefs and practices of the Seventh-day Adventist Church, and show promise of usefulness for ministry through personal maturity and adequate experience in the Church. (Persons of other faiths who are willing to live in harmony with these standards are welcome to apply).

English Language Requirements

Students whose language of education is not English must submit one of the following tests and minimum scores:

TOEFL Paper-based - 565

TOEFL Internet-based - 85 Minimum 20 in each section (reading, listening, speaking, writing)

MELAB - 81

IELTS - 6.5

PTE - 58

Master of Public Health

Baccalaureate Degree: A four-year degree from an accredited United States institution, or its equivalent from an institution outside the U.S.

Undergraduate GPA: A minimum GPA of 3.00.

GRE: No minimum score if undergraduate is from an accredited United States institution. Minimum score of 290 combined if undergraduate degree is not from an accredited US institution.

Recommendations: Three letters of recommendation from the Church board where the applicant is a member, college teacher/advisor, and church administrator, pastor, or recent employer.

Statement of Purpose

Resume or Curriculum Vitae

Prerequisites:

College level writing

College level algebra

Physiology course

Chemistry course

Two nutrition courses

Note: College level statistics is required for PBHL 511 - Biostatistics.

English Language Requirements

Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Program Objectives

- To prepare students for various forms of ministry in which clinical and administrative skills in public health and theology are needed.
- To enable students to integrate both theological and public health knowledge, values and skills into a multifaceted approach to Christian service, thereby enhancing their usefulness as instruments of the Holy Spirit.
- To sensitize students to nontraditional ministry opportunities by exposing them to theories and practice skills related to nutrition and wellness, environmental health, and health behaviors.

Certificates

Graduate Certificate in Nutrition & Dietetics (Dietetic Internship)

Program Description

- The Andrews University Internship Program of Nutrition and Dietetics is a post-baccalaureate, supervised practice program that qualifies graduates to take the examination to become Registered Dietitians. Interns (from now on referred to as "interns") enroll in a full-time program requiring 40 hours of participation per week for 32 weeks. The program goals reflect the major points of our philosophy: quality instruction with broad-based training concurrent with ongoing supervision, feedback, and evaluation.
- Students who have successfully completed a B.S. degree in Nutrition and Dietetics can apply to a supervised practice, hands-on experience in the Internship program. The internship enables the student to become a Registered Dietitian. The internship is an 8-month supervised practice program that is conducted at an affiliated hospital. Students must apply and be accepted to the Internship Program.
- The Internship Program at Andrews University is currently accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-5400.
- The program is comprised of a three-day orientation, 5 months of clinical nutrition, 2 months of foodservice management, and 1 month of community nutrition. Each rotation contains a series of competencies, objectives, activities, and assignments that must be completed in order to receive credit for the hours completed. Formal evaluations will be received by each intern at the end of each rotation, and will indicate whether or not the intern has successfully completed the competencies and objectives for that particular rotation. All interns will complete at least 1200 supervised practice hours during the 32-week period. Weekly reports by interns are sent to program director to monitor intern progress and compliance with all policies. Intern progress will be evaluated by the preceptors following each rotation and there will be a formal evaluation between the intern and site coordinator at midterm and again at the end of the program. At the successful completion of all program requirements, interns are eligible for a verification statement and allowed to sit for the Registration examination for dietitians.

Graduate Certificate - 12

The certificate will facilitate the applicant to be eligible for student loans. When applicable, the applicant can petition to transfer up to 6 credits to the AU on-line MPH program.

FDNT 595 - Graduate Certificate Internship I Credits: 6

FDNT 596 - Graduate Certificate Internship II Credits: 6

Nutrition

FDNT 118 - The Profession of Dietetics

Credits: 1 | A discussion of the dietetics profession and the role of the dietitian within the health-care team. Ethical concerns in the practice of dietetics. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FDNT 124 - Food Science

Credits: 3 | Chemical and physical properties of foods that affect food handling, preparation, and preservation. Lab procedures apply the principles studied to the preparation of foods. | **Weekly:** 2 lectures and a 3-hour lab | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture/Lab | **Offering:** Fall | **College Code:** SHP

FDNT 230 - Nutrition

Credits: 3 | A study of the basic principles of nutrition science, the biochemical functions of various nutrients, the changes in physiological needs with age, and the relationship between nutrition and health. Students needing life science general education credit must also register for the lab, FDNT240. | **Weekly:** 3 lectures | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **Offering:** Fall, Spring | **College Code:** SHP

FDNT 230V - Nutrition

Credits: 3 | A study of the basic principles of nutrition science, the biochemical functions of various nutrients, the changes in physiological needs with age, and the relationship between nutrition and health. Students needing life science general education credit must also register for the lab, FDNT240. | **Grade Mode:** Self-Paced (A-F,I,W) | **Schedule Type:** Self-Paced | **College Code:** SHP

FDNT 240 - Nutrition Laboratory

Credits: 1 | Discovering principles of nutrition science in the laboratory. | **Weekly:** 3-hour lab. Lab required for those students needing life science general education credit. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lab | **Offering:** Fall, Spring | **College Code:** SHP

FDNT 310 - Nutrition in the Life Cycle

Credits: 3 | Study of the nutritional needs of the healthy person throughout the life cycle. The influence of socioeconomic, cultural, and psychological factors on food and nutritional behavior. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 230. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 310V - Nutrition in the Life Cycle

Credits: 3 | A study of the basic principles of nutrition science, the biochemical functions of various nutrients, the changes in physiological needs with age, and the relationship between nutrition and health. Students needing life science general education credit must also register for the lab, FDNT240. | **Grade Mode:** Self-Paced (A-F,I,W) | **Prerequisite(s):** FDNT 230 | **Schedule Type:** Self-Paced | **College Code:** SHP

FDNT 351 - Food Service Management I

Credits: 3 | Introduction to the systems approach and application of the functions of management to foodservice systems. Principles of menu development, food production, service, delivery, procurement, sanitation, safety, and equipment selection in food service organizations. | **Weekly:** 2-hour lecture and 3 to 4 hour practicum | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** FDNT 124, BIOL 260 | **Prerequisite(s):** MATH 145 or equivalent, and a passing grade of 85% on a departmental math skills test. | **Schedule Type:** Lecture/Lab | **Offering:** Fall, alternate years | **College Code:** SHP

FDNT 352 - Food Service Management II

Credits: 3 | Application of management functions and principles to foodservice organizations. Specific attention to marketing processes, CQI, and integration of foodservice subsystems. Includes the management of human, material, spatial, and financial resources in environmentally responsible ways. | **Weekly:** 2-hour lecture and up to 4-hour lab | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 351; BSAD 355. | **Schedule Type:** Lecture/Lab | **Offering:** Spring, alternate years | **College Code:** SHP

FDNT 415 - Professional Experience

Credits: 1-4 | A supervised lab experience introducing the student to the role of a professional in the workplace. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable up to 8 credits | **Schedule Type:** Independent | **Offering:** Fall, Spring | **College Code:** SHP

FDNT 421 - Community Nutrition I

Credits: 2 | Principles for presenting nutrition information to individuals and groups. Community assessment and planning a community nutrition program. | **Weekly:** 1-hour lecture and a 3-hour lab | \$ - Course or lab fee | **Swing course** | **Course Attribute:** Service course | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 310. Fall/Offered alternate years | **Schedule Type:** Lecture/Lab | **Offering:** Fall, alternate years | **College Code:** SHP

FDNT 422 - Community Nutrition II

Credits: 2 | Analysis of local and national nutrition programs and services. Impact of nutrition policies on community health. Implementing and evaluating a community nutrition program. | **Weekly:** 1-hour lecture and a 3-hour lab | \$ - Course or lab fee | **Swing course** | **Course Attribute:** Service course | **Grade Mode:** Normal (A-F,I,W) |

Prerequisite(s): FDNT 421. | **Schedule Type:** Lecture, Lab | **Offering:** Spring, alternate years | **College Code:** SHP

FDNT 440 - Topics in

Credits: 1 | Selected topics in nutrition. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **College Code:** SHP

FDNT 441 - Medical Nutrition Therapy I

Credits: 3 | Introduction to medical nutrition therapy. Medical terminology for healthcare professionals. Assessment of nutritional status by various methods. Development of nutritional care plans. Theory and techniques of counseling in various settings. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 310, FDNT 485 | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 442 - Medical Nutrition Therapy II

Credits: 3 | Implement medical nutrition therapy through the assessment of nutritional status and development of care plans for a variety of clinical conditions, such as chronic diseases, oncology, nutrition support, and renal disease. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 441. | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FDNT 448 - Nutrition and Wellness

Credits: 3 | The dietary factors associated with the major chronic diseases of Western society. The use of plant-based diets in health promotion and disease prevention. Discussion of herbal therapies. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 230. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 451 - Medical Nutrition Therapy I Lab

Credits: 1 | Review of care plans and case studies | \$ - Course or lab fee | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** FDNT 441 | **Schedule Type:** Lab | **Offering:** Fall | **College Code:** SHP

FDNT 452 - Medical Nutrition Therapy II Lab

Credits: 1 | Analysis of care plans and care studies | \$ - Course or lab fee | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** FDNT 442 | **Schedule Type:** Lab | **Offering:** Spring | **College Code:** SHP

FDNT 460 - Seminar

Credits: 1,2 | Review of contemporary issues and/or current literature in nutrition. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable up to 3 credits | **Schedule Type:** Seminar | **Offering:** Spring | **College Code:** SHP

FDNT 469 - International Nutrition

Credits: 2,3 | A study of world food production, supply, storage, and marketing. Causes and symptoms of nutritional deficiencies in the developing world. Diseases of the affluent. Effects of nutritional deprivation on health and productivity. Effects of social and cultural factors in nutrition. | **Swing course**—Approved 400–499 courses qualify for graduate-level credit for graduate students | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 476 - Nutrition and Aging

Credits: 2 | Physiological changes in aging. Food-selection patterns, nutritional needs, nutritional disorders, and chronic diseases. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 230. | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 478 - Study Tour:

Credits: 0 | Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. | \$ - Course or lab fee | **Swing course**—Approved 400–499 courses qualify for graduate-level credit for graduate students | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Blended Learning | **College Code:** SHP

FDNT 485 - Nutrition and Metabolism

Credits: 3 | Study of the nutrients and their functions within the living cell and the complex organism. Discussion of the major metabolic pathways. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** BCHM 120, FDNT 230. | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FDNT 490 - Dietetic Program Review

Credits: 1 | A comprehensive review of the major elements of the undergraduate dietetics program (DPD). The senior comprehensive exam will be given at the end of the semester. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Lecture | **College Code:** SHP

FDNT 495 - Independent Study/Readings

Credits: 1 | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable up to 4 credits in independent study and 4 credits in readings on nutrition and dietetics | **Schedule Type:** Independent | **Special Approval:** Instructor permission required. | **College Code:** SHP

FDNT 497 - Internship

Credits: 2 | Supervised field experience in an approved health institution or health promotion program for a total of 200 hours. Application of knowledge and competencies learned in the health program. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

FDNT 498 - Research Methods

Credits: 2 | A study of research methodology, survey methods, and applied statistics as they relate to dietetics. | Swing course—Approved 400–499 courses qualify for graduate-level credit for graduate students | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture/Lab | **Offering:** Fall | **College Code:** SHP

FDNT 499 - Research Project in Nutrition Science & Dietetics

Credits: 1 | A research project in Nutrition Science & Dietetics supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take research project courses up to 6 credits with no more than 3 credits per semester. Recommendation: Consult with faculty before registering. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **Special Approval:** Instructor permission required. | **College Code:** SHP

FDNT 520 - Vegetarian Nutrition and Disease Prevention

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. The role of plant-based diets and exercise in health promotion and prevention of major chronic diseases of affluent societies. The impact of complementary nutrition on personal health. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

FDNT 540 - Maternal and Child Nutrition

Credits: 2 | Role of nutrition in human growth and development, with emphasis on prenatal period, infancy, childhood, and adolescence. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FDNT 545 - Nutrition and Wellness Programs

Credits: 2 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. Development of nutrition and wellness programs for community groups emphasizing health promotion. Includes participation in community assessment, program planning, implementation, and evaluation of a program. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 448. | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

FDNT 555 - Advanced Human Nutrition I

Credits: 3 | Functions and nutritional metabolism of simple and complex carbohydrates, lipids, amino acids, and proteins. Public health applications. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** A course in biochemistry. | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FDNT 556 - Advanced Human Nutrition II

Credits: 3 | Functions and nutritional metabolism and interactions of fat-soluble and water-soluble vitamins, minerals, and trace minerals. Public health applications. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** A course in biochemistry. | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FDNT 560 - Health Research Methods

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. The study of research methodology, statistical analysis, and the evaluation of research papers. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

FDNT 565 - Current Issues in Nutrition and Wellness

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. Discussion of current issues in nutrition, food safety, public health, and wellness. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 230. | **Schedule Type:** Lecture, Interactive Online | **Offering:** Spring | **College Code:** SHP

FDNT 570 - Maternal and Child Health

Credits: 3 | Preventive health care and conditions necessary for mother and child well-being in developing countries. Community-based interventions for child survival. Management of maternal and child health programs. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FDNT 585 - Topics in _____

Credits: 1 | Selected topics in the areas of nutrition and wellness. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable up to 6 credits | **Schedule Type:** Lecture, Blended Learning | **College Code:** SHP

FDNT 586 - Professional Experience

Credits: 1–4 | Opportunities for unique supervised practical experiences in various organizations to introduce the student to the role of a professional. A maximum of 4 credits per semester can be taken. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable up to 8 credits | **Schedule Type:** Independent | **College Code:** SHP

FDNT 595 - Graduate Certificate Internship I

Credits: 6 | The Internship Program, during the fall semester, will cover the community and food service rotations. The community rotations will take place in WIC clinics, wellness programs and school lunch programs. Interns will be teaching nutrition classes to members of the community and will learn how to develop wellness activities. During the food service rotations the interns will learn a variety of food service management skills; this rotation will occur in a hospital or university setting. Interns are required to pass 2 online tests in community and food service areas for the completion of the fall semester. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **College Code:** SHP

FDNT 596 - Graduate Certificate Internship II

Credits: 6 | The Internship Program, during the spring semester, will be completely dedicated to the Medical Nutrition Therapy rotations. Interns will learn how to assess and counsel patients with a variety of health conditions. Interns are required to pass a clinical online test and a comprehensive test that will cover the 3 major areas: food service, community and MNT for the completion of the spring semester. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Practicum | **College Code:** SHP

FDNT 600 - Research Design

Credits: 1 | Criteria for the organization, analysis, and reporting of research in nutrition. Preparation of a proposal for a master's thesis or project. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 498 or equivalent. | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FDNT 648 - Workshop

Credits: 1–4 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Workshop | **College Code:** SHP

FDNT 650 - Project Continuation

Credits: 0 | Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full-time status. | \$ - Course or lab fee | **Course Attribute:** Full-time status | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 655 - Program Continuation

Credits: 0 | Students may register for this non-credit continuation course to maintain active status. Please refer to Active Status for additional information. Registration does not indicate full-time status. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 660 - Thesis Continuation

Credits: 0 | Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full-time status. | \$ - Course or lab fee | **Course Attribute:** Full-time status | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 665 - Preparation for Comprehensive Exams

Credits: 0 | Advisor approval required. Registration for this title indicates full-time status. | \$ - Course or lab fee | **Course Attribute:** Full-time status | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 670 - Comprehensive Exam

Credits: 0 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 680 - Research Seminar

Credits: 1 | Individual reports and discussion of recent research data. (Repeatable) | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Prerequisite(s):** Consent of instructor required. | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Seminar, Interactive Online | **College Code:** SHP

FDNT 690 - Independent Study

Credits: 1 | Individual study and/or research. Consent of instructor required. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable up to 6 credits | **Schedule Type:** Blended Learning, Independent | **College Code:** SHP

FDNT 698 - Research Project

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. Provides students with guidelines and supervision for data collection, analysis, project preparation and oral presentation. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

FDNT 699 - Master's Thesis

Credits: 3-6 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable up to 6 credits | **Schedule Type:** Independent | **College Code:** SHP

Fitness & Exercise Studies

FTES 106 - Beginning Basketball

Credits: 1 | Instruction in the fundamental skills of shooting, passing, ball-handling, man-to-man defensive play, basic rules, offensive strategy, basic rules and team play. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 107 - Beginning Volleyball

Credits: 1 | Instruction in the basic skills of serving, setting, passing and spiking, and the basic instruction on rules, and 2-, 3-, 4-, and 6-person team play. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 109 - Beginning Softball

Credits: 1 | Instruction in the fundamental skills of throwing, catching, base running, batting and fielding of ground and fly balls. Position play, game situation drills, scrimmages and rules are covered. Student must supply own glove. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 114 - Soccer

Credits: 1 | Learning the fundamental skills of ball control, passing, blocking and shooting goals. Indoor or outdoor games depending upon the season and weather. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 115 - Disc Sports

Credits: 1 | Development of basic skills for "Disc Sports" like disc golf and ultimate frisbee. Students will learn the basic strokes, rules and techniques to allow them to be proficient in these lifetime activities. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 116 - Weight Control

Credits: 1 | Study of the factors involved in weight loss and health improvement using a combination of concepts and applications in physical fitness, healthy nutrition and self-control. Cardiovascular, strength and flexibility exercises will be introduced and practiced throughout this course. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 118 - Badminton

Credits: 1 | Analysis and practice of basic strokes, singles and doubles play, strategy and rule interpretations. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 119 - Tennis

Credits: 1 | Instruction in the fundamental skills of ground strokes, serving, volleying, team play, basic strategy and rules. Students must supply their own racquet and balls. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FTES 120 - Scuba

Credits: 1 | An entry-level course in scuba diving. Includes instruction in the buddy system, dive planning, donning and removing equipment in the water, alternate air sources, buddy breathing, entries, communication and navigation. Swimming pretest required. Students will earn scuba license upon completion. Additional fees apply. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FTES 124 - Backpacking

Credits: 1 | Students will gain knowledge of outdoor elements like one match and friction fires, orienteering, lightweight backpacking, and many other necessary skills. The class also uses and applies the current leave no trace principles and how they affect everyday life. The class culminates with a four-day backpacking trip that occurs over a long weekend where the skills and adventure of living outdoors are put into practice. The student will be responsible for providing their own backpack. The department will supply all necessary additional gear. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 125 - Canoeing

Credits: 1 | Emphasis on precise canoe handling through paddle control. Based on traditional strokes. Practice conducted on local lakes and rivers. One all-day canoe trip or two half-day canoe trips are required. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FTES 126 - Cycling

Credits: 1 | A study of the various types of cycling, cycling techniques and the proper maintenance of a bicycle. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 127 - Rock Climbing

Credits: 1 | A safe introductory course that includes learning climbing skills, essential climbing knots, proper equipment and safety, and self-rescue. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 128 - Golf

Credits: 1 | Study of the basic techniques of the golf swing. An introduction to the game, rules and etiquette of golf. Students must supply their own equipment. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FTES 129 - Beginning Racquetball

Credits: 1 | Introduction to basic strokes, singles and doubles play, strategy and rule interpretations. Students must supply their own racquet, balls and eye-guards. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 130 - Special Activities

Credits: 1 | Special areas beyond normally offered courses: Cardinal Athletics, personalized fitness activities, horseback riding. Consult the current class schedule for activities offered each year. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **College Code:** SHP

FTES 131 - Pilates

Credits: 1 | The student will learn the Pilates fundamentals and essential mat work exercises, then work towards mastery of these basic skills. Pilates exercises help to strengthen core muscles and increase flexibility, endurance, posture and body awareness. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 132 - Cardio Kick

Credits: 1 | The student will participate in a high-intensity, cardio workout utilizing kickboxing techniques and aerobic movements. In addition, the student will learn abdominal exercises and whole body strengthening exercises. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 135 - Self-Defense

Credits: 1 | The purpose of this class is to provide the student with the appropriate level of knowledge and skills in self-defense. As a result of the class the student will improve his/her general physical fitness and skill performance. Principles, techniques and safe practices of self-defense will be taught. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 138 - Cardio Development

Credits: 1 | A study of basic-fitness concepts and principles focused on cardiovascular endurance and flexibility. Students will be required to develop a personalized exercise program for physical fitness based on their current fitness level. Weekly independent workouts are required. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Interactive Online | **College Code:** SHP

FTES 138V - Cardio Development

Credits: 1 | A study of basic-fitness concepts and principles focused on cardiovascular endurance and flexibility. Students will be required to develop a personalized exercise program for physical fitness based on their current fitness level. Weekly independent

workouts are required. | **Grade Mode:** Self-Paced (A-F,I,W) | **Schedule Type:** Self-Paced | **College Code:** SHP

FTES 140 – Aqua Aerobics

Credits: 1 | This course is designed to use water resistance and rhythmic movements for both low and non-weight bearing improvements in cardiovascular fitness, muscle strength and endurance as well as flexibility. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 144 – Floor Hockey

Credits: 1 | Introduction to the game, including team composition, rules and fundamental skills. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 150 – Swimming

Credits: 1 | Designed for multilevel instruction. Three basic levels are incorporated into the class based on a swimming pretest: beginners, intermediate and advanced. No swimming ability necessary. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 174 – Cross-Country Skiing

Credits: 1 | Instruction in cross-country skiing technique, conditioning, equipment and winter safety. | \$ - Course or lab fee | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 205 – Fitness Conditioning

Credits: 1 | This class is designed to inspire a lifelong fitness program using dynamic movements and natural body resistance. Will explore ways to gain maximum results using the minimal equipment, such as the new suspension system 'TRX.' All workouts will target the anaerobic zone while strength training. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 206 – Intermediate Basketball

Credits: 1 | Analysis of and drills in fundamental skills, offensive and defensive strategies. Emphasis is given to team play. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 207 – Intermediate Volleyball

Credits: 1 | Instruction in advanced team play, offensive and defensive strategies. Game scrimmages will help to perfect fundamental skills. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 210 – Personal Fitness Plan

Credits: 1 | A study of basic-fitness concepts and principles in conjunction with a personalized exercise program for physical fitness. Weekly independent workouts are required. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 214 – Weight Training and Conditioning (Men/Women)

Credits: 1 | A study of the basic principles in strength training and conditioning for men and women as well as the application of different methods of muscular strength and endurance training. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 214-002 – Women's Strength Training and Toning

Credits: 1 | A study of the basic principles in strength training and conditioning for men and women as well as the application of different methods of muscular strength and endurance training. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 240 – Gymnics

Credits: 0 or 1 | The student will be a part of a demonstration acrobatic team that will perform for various audiences both spiritual and secular in nature. Students will learn to perform various acrobatics, increase their physical fitness level and learn teamwork. Students will develop tolerance both for others and for themselves as they become a part of the team and will have an opportunity to share what God has done and what He is ready to do again in their lives. Class meets four nights a week for 2 hours throughout the fall and spring semesters of the school year. Registration for this class is contingent upon being selected for the team following tryouts. All students on the team must register each semester. Course can be taken for credit one semester per academic year. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **College Code:** SHP

FTES 266 – Officiating

Credits: 1 | Practical field experience in officiating. Rules, officiating mechanics and signals, learned and practiced. MHSAA certification available. Certified officials have opportunities to earn up to \$50.00 a game for officiating elementary school, middle school and high school athletic contests. | **Grade Mode:** Normal (A-F,I,W) |

Prerequisite(s): Previous knowledge of the game and/or experience playing the game. | **Schedule Type:** Lecture | **College Code:** SHP

FTES 275 – Outdoor Trips-N-Treks:

Credits: 1 | One- to two-week trips beyond the normally offered activity courses: Biking, Backpacking, Skiing. Consult the current class schedule for activities offered each year. Normally involves out-of-state destinations when school is not in regular session. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **Special Approval:** Instructor permission required. | **College Code:** SHP

FTES 278 – Study Tour:

Credits: 0 | Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Blended Learning | **College Code:** SHP

FTES 300 – Lifeguarding

Credits: 1 | Instruction in accident prevention, aquatic facility supervision, and water-rescue techniques. Successful completion results in American Red Cross Lifeguard Training certification. Current first aid and CPR certification included. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Ability to swim 500 yards in 10 minutes or less. | **Schedule Type:** Lecture, Lab | **College Code:** SHP

FTES 305 – Current Concepts and Applications in Physical Fitness

Credits: 3 | A foundational course surveying the current trends and practices in the area of physical fitness. Understanding and critically analyzing the concepts, principles, and guidelines for fitness exercise and related activities. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall | **College Code:** SHP

FTES 325 – Sports Nutrition

Credits: 3 | A study of the association between nutrition and exercise performance. Metabolism of carbohydrates, fats, proteins, vitamins, minerals and water and their effect on training. Nutrition assessment of athletes and how to measure body composition. Sport specific nutrition recommendations and the use of ergogenic aids. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FDNT 230 | **Schedule Type:** Lecture | **College Code:** SHP

FTES 330 – Outdoor Adventure

Credits: 1 | Instruction in camping and outdoor techniques, open fire cooking, orienteering, backpacking, wilderness first aid and edible wild plants. Department supplies all necessary equipment except backpack. One weekend trip required where students will day hike and live outdoors. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

FTES 350 – Water Safety Instructor

Credits: 0 or 1 | Instruction in techniques for teaching American Red Cross swimming courses. Current CPR certification required. Swimming pretest required. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Lab | **College Code:** SHP

FTES 355 – Methods of Fitness Instruction

Credits: 3 | A course providing knowledge and practical application for instructing safe and effective exercise programming for apparently healthy individuals. Teaching and evaluating of a variety of individual and group exercise sessions including several different types of physical activities. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** FTES 305. | **Schedule Type:** Lecture | **Offering:** Spring | **College Code:** SHP

FTES 389 – WSI Internship

Credits: 1 | Students who have a current American Red Cross Water Safety Instructor's Certification or equivalent can take advantage of this opportunity. Participants will teach and organize a class of students for the Learn-To-Swim program. Teachers will be expected to provide lesson plans and teach all the required lessons. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

FTES 410 – Issues in Exercise Studies

Credits: 2 | Addresses a variety of current issues within exercise science in the 21st century related to special populations, weight management, nutrition, appropriate methods and safety. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **College Code:** SHP

FTES 465 – Exercise Physiology

Credits: 4 | Study of the body's physiological response to exercise. | Weekly: 3 lectures and a 3-hour lab | \$ - Course or lab fee | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** BIOL 221, BIOL 222 or equivalent. Must be a junior

or senior to register for this course. | **Schedule Type:** Lecture, Lab | **Offering:** Spring | **College Code:** SHP

FTES 475 – Kinesiology

Credits: 3 | An understanding of how the structure of the humans body determines its function, how movement is produced, and how exercise can maintain, rehabilitate, and improve body structure. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** BIOL 221, BIOL 222 | **Schedule Type:** Lecture | **College Code:** SHP

FTES 495 – Independent Study/Reading/Research/Project

Credits: 1 | Independent Study: Directed study in an area of interest resulting in a formal term paper. Independent Readings: Weekly meetings with the instructor for individual assignments and reports. Independent Research: Design and execution of an experiment or causal-comparative research. Independent Project: Practical or creative experience or project in consultation with instructor. Permission required from the instructor and department chair. Thirty hours of involvement required for each credit. Contract of proposed activity required. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Independent | **Offering:** Fall, Spring | **College Code:** SHP

FTES 497 – Internship

Credits: 2 | Supervised field experience in an approved health, fitness or wellness facility engaged in a health promotion program for a total of 90 hours. Application of knowledge and competencies learned in the fitness and wellness program. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Practicum | **Offering:** Fall, Spring, Summer | **College Code:** SHP

FTES 510 – Fitness and Health Promotion

Credits: 2,3 | The role that fitness plays in promoting personal and community health. The challenges involved in achieving personal fitness and weight management. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

Health Education

HLED 120 – Fit for Life

Credits: 1 | A balanced up-to-date coverage of all critical areas of wellness including physical fitness, nutrition, weight management and stress, as well as the principles of health according to the Bible and Ellen G. White will be studied. Practical tools will be given to help adopt and model healthier lifestyles. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

HLED 120V – Fit for Life

Credits: 1 | A balanced up-to-date coverage of all critical areas of wellness including physical fitness, nutrition, weight management and stress, as well as the principles of health according to the Bible and Ellen G. White will be studied. Practical tools will be given to help adopt and model healthier lifestyles. | **Grade Mode:** Self-Paced (A-F,I,W) | **Schedule Type:** Self-Paced | **College Code:** SHP

HLED 210 – Philosophy of Health

Credits: 3 | The Biblical basis of health. A study of the historical development and basis of the health message in the Seventh-day Adventist Church. The role of health promotion in current society. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

HLED 380 – Natural Therapies

Credits: 3 | The study of simple natural therapeutic remedies, including massage, hydrotherapy and herbal therapies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

HLED 411 – Community Health & Fitness I

Credits: 2 | In this course the Precede/Proceed Planning Model and other relevant health planning models are introduced and discussed. Students will design and evaluate professional health education programs in a variety of settings: school, worksite, medical care, and community. Students will learn to set behavioral and learning objectives as well as determine the appropriate intervention type based on various learning theories and strategies geared for specific populations. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

HLED 412 – Community Health & Fitness II

Credits: 2 | This course reviews the methods and planning of community programs related to obesity prevention and lifestyle interventions conducted in multiple settings (e.g., individual, family, and community settings, as well as policy-level interventions). Topics include physical activity, nutrition, and weight-loss interventions in various populations. This course is intended to further enhance the student's skills in

implementing and evaluating lifestyle interventions. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

HLED 425 – Health & Fitness Evangelism

Credits: 3 | Explores the principles and concepts of biblical evangelism and applies those teachings within the context of health and fitness in modern society. A deeper exploration of the practical applications of physical activity from the outset of the Seventh-day Adventist Church and how it applies to the current times. A strategic approach in developing modern methods for health and fitness evangelism to strengthen the "right arm" of the church's effort in ministry. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

HLED 445 – Consumer Health

Credits: 2 | An analysis of the various fads in society today, and the methods and techniques used by promoters of healthcare products and services. A study of ways in which consumers are vulnerable to certain health claims and scams, and the protection provided to the consumer by governmental agencies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

Public Health

FTES 499 – Research Project in Fitness & Exercise Science

Credits: 1 | A research project in *Fitness & Exercise Science* supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take research project courses up to 6 credits with no more than 3 credits per semester. Recommendation: Consult with faculty before registering. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **Special Approval:** Instructor permission required. | **College Code:** SHP

PBHL 440 – Fundamentals of Spirituality & Ethics in Healthcare

Credits: 3 | Addresses religious and spiritual issues of significance for healthcare. Includes a discussion of views of the relationship between health and spirituality from different religious perspectives. Provides an overview of the philosophical and historical background for ethical systems and their significance for current ethical challenges in healthcare. Required course for all majors in the School of Health Professions with the exception of students transferring to AU in their senior year. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **Offering:** Fall, Spring | **College Code:** SHP

PBHL 500 – Introduction to Public Health

Credits: 2 | Provides student with an overview of the field of public health. Major topics include: public health competencies, careers in public health, health disparities, cultural competence, and public health ethics. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 511 – Biostatistics

Credits: 3 | Introduces statistical concepts and analytical methods as applied to data encountered in biomedical sciences. It emphasizes the basic concepts of experimental design, quantitative analysis of data, and statistical inferences. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** MATH 165, STAT 285 | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 521 – Principles of Epidemiology

Credits: 3 | Introduces the basic principles and applications of epidemiology. Epidemiology is one of the pillars of public health. Describes the distribution and determinants of disease in human populations. Introduces students to the theory, methods, and body of knowledge of epidemiology. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 525 – Principles of Environmental Health

Credits: 3 | Presents concepts, principles, and applications that form the basis of environmental health. Describes the sources, pathways of exposure, and methods of control of the principal physical, chemical, biologic, and sociologic factors that impact human health in ambient, indoor and occupational environments. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 526 – Cultural Competence and Minority Health

Credits: 2 | Overview of culture and diversity. Explore the determinants and elimination of health disparities and other topics related to minority health. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PBHL 531 – Principles of Health Behavior

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. Examines the psycho-social, behavioral, and educational principles that determine health behavior.

Describes the philosophical, ethical and theoretical foundations of health education in schools, community, work site and hospital settings. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 535 - Principles of Health Administration

Credits: 3 | Describes the application of administrative theory to health delivery, policy, and planning. Examines structures and functions of management and their application in public health. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 540 - Grant Writing

Credits: 2 | Overview of the basic principles and practice of effective health education and health promotion grant writing. Provides guidance for identifying potential funding sources and writing a grant proposal that is ready for submission. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 545 - Program Planning and Evaluation

Credits: 3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. Introduces principles of program development and evaluation. Develop a health promotion and education program with an evaluation component for community groups. Major topics includes: community needs and assets assessment; program planning, implementation and evaluation of a program. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 546 - Adventist Health and Healing

Credits: 3 | Overview of the history the Adventist health message. Discussion of key features of the Adventist health message and application to health evangelism. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PBHL 550 - Addictions Prevention and Treatment

Credits: 3 | Discuss addictions theory, treatment and prevention programs. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 555 - Health Promotion and Education Seminar

Credits: 2 | Develop capstone research project | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PBHL 575 - Integrated Public Health Capstone

Credits: 3 | The Integrated Public Health Capstone project is a requirement for graduation for students in the MPH program. It is an opportunity for students to work on public health practice projects that is of interest to them. The goal is for students to synthesize, integrate and apply the skills and competencies they have acquired to a public health problem that approximates a professional practice experience. Completion of the capstone project requires both written and oral components. The capstone is typically completed in the last two terms of the program. The project is done under the direction of a capstone advisor. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 580 - Field Practicum

Credits: 1-4 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. A minimum of 100 hours required per credit | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Practicum | **College Code:** SHP

PBHL 646 - Integration of Spirituality in Health Care

Credits: 2-3 | A discussion of spiritual values from a Christian perspective, how faith and spirituality facilitates the healing process, and how they can be incorporated into patient care. Attention will be given to discerning and addressing the spiritual needs of patients/clients, family members, and ancillary medical staff in a professional environment. (DPT and DScPT students register for PTH 646) | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PBHL 698 - Capstone Research Project

Credits: 1-3 | *May assist students in achieving competencies needed for preparation to complete the Certified Health Education Specialist (CHES) exam. The Capstone project is a requirement for graduation for students in the MPH program. It is an opportunity for students to work on public health practice projects that are of interest to them. Completion of the capstone project requires both written and oral components. The capstone is completed in the last semester of the program. The project is done under the direction of a capstone project advisor. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Repeatable:** Repeatable | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

Physical Therapy

8515 E Campus Circle Dr
Berrien Springs MI 49104-0420
269-471-AUPT or 800-827-AUPT
FAX: 269-471-2866
www.andrews.edu/phth/
Admissions Fax: 269-471-2867
Admissions E-mail: pt-info@andrews.edu

Faculty

Kim Ferreira, *Chair, DPT Program Director*
Bill Scott, *Clinical Education Director*

Greg Almeter, *Orthopedic Musculoskeletal Coordinator*
Kathy A. Berglund, *Postprofessional Program Director*
Caryn Pierce, *Behavioral Science Coordinator*
Lori Walton, *Research Coordinator*
Elizabeth Oakley, *Clinical Science Coordinator*
Lee E. Olson, *Neuromuscular Coordinator*
Ryan Orrison, *Foundation Science Coordinator*
David P. Village, *General Medicine Coordinator*

Emeritus

John Carlos, Jr., PT, PhD - Professor of Physical Therapy, Emeritus
William C. Habenicht, MPH - Professor of Physical Therapy, Emeritus
Wayne L. Perry, PT, MBA, PhD - Professor of Physical Therapy, Emeritus

Mission

In accordance with the Seventh-day Adventist Church and Andrews University, the mission of the Department of Physical Therapy is to provide a quality physical therapist education within a cooperative learning environment that promotes Christian values. The physical therapy department provides resources and encourages faculty to continue their educational, professional, and spiritual growth. The physical therapy faculty delivers, within a Christ-centered environment, the knowledge base and clinical skills that will prepare students for contemporary physical therapy practice. Physical therapy graduates will serve Christ as evidenced by their ministering to the needs of others through the delivery of effective professional healthcare. The physical therapy department faculty and graduates comprise a Christian network that is balanced in the development of the spiritual, mental, physical, and social life of its members.

Physical therapy is a health profession dedicated to evaluating, treating, and preventing physical injury and disease. Physical therapists design and implement the necessary therapeutic interventions to promote fitness, health and improve the quality of life in patients. They also become active in consultation, education and research.

Physical therapists work closely with their client's family, physician, and other members of the medical team to help their client return to their home environment and resume activities and relationships of normal daily living.

Academic Calendar. Contact the Department of Physical Therapy for academic dates.

Bachelors

Health Science, (Interim Degree)

BHS

Students successfully completing the appropriate prerequisites and the first two semesters (36 credits) of the professional program qualify for the Bachelor of Health Science Degree. Successful completion of the BHS is defined as:

- An earned minimum grade of "C+" (2.33) or "S" (in a "S/U" course) in each DPT program course. The BHS program courses include PTH 400, PTH 410, PTH 415, PTH 416, PTH 418, PTH 420, PTH 425, PTH 426, PTH 428, PTH 430, PTH 440, PTH 445, PTH 450, PTH 455, PTH 457, and PTH 460.
- No more than a cumulative total of five points earned on the grade-point scale throughout the physical therapy program (see DPT Student Handbook).
- Students must be able to perform skills listed in the Technical Standards of Performance and demonstrate professional behaviors as outlined in the DPT Student Handbook.
- Maintain a cumulative GPA of 2.50 or greater in all credits used to meet the BHS degree requirements.

Post-Masters

Physical Therapy DPT

This three-year program begins after a student completes 92 semester credits of specific college prerequisites. Students taking the appropriate prerequisites will earn a Bachelor of Health Science (BHS) after the first year in the professional program and the DPT degree upon successful completion of the program. A previous bachelor's degree is not required however applicants holding a bachelor's degree are eligible to apply as well.

Program Accreditation

The DPT program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE)*. After receiving the DPT degree graduates may apply to take the physical therapy licensure exam in the state of their choice. * 1111 North Fairfax, Alexandria, VA 22314

Information/Application Process

Please call 1-800-827-2878, e-mail pt-info@andrews.edu or visit www.andrews.edu/cas/pt for application instructions and admission requirements. Information is available by June of each year.

All applicants applying for admission to the DPT professional entry program must apply via the Physical Therapy Centralized Application Service. Please submit your application by October 15. Successful completion of prerequisite courses does not guarantee acceptance into the DPT program.

Admission Requirements

There are three tracks for admission into the DPT program. The minimum requirements to be considered for admission are:

- **Freshman Acceptance** (Requires PTCAS application, but no interview or confirmation deposit). Freshman enrolling as a BHS: Physical Therapy major are guaranteed acceptance into the DPT program if they complete at least 90% of prerequisite course requirements at Andrews, maintain at least a 3.4 science and overall prerequisite GPA, meet all program admission requirements, uphold University standards and display professional behavior.
- **Preferred Acceptance** (Requires a PTCAS application, interview and confirmation deposit). Acceptance into the program is preferred when a student transfers into Andrews University for at least their last semester of prerequisite requirements, has at least a 3.3 science and overall prerequisite GPA, meets all program admission requirements, and upholds University standards and display professional behavior.
- **General Acceptance** (Requires a PTCAS application, interview and confirmation deposit). The Andrews University physical therapy program enrolls students from a nationwide pool of applicants. General Acceptance includes any student who has completed all prerequisite requirements from any U.S. accredited college or university (or U.S. equivalent), maintains at least a 3.2 science and overall prerequisite GPA, meets all program admission requirements, and upholds University standards and displays professional behavior.

Additional requirements for students with and without an earned bachelor's degree:

GPA: A minimum GPA of 3.20 is required in all core PT prerequisite courses. A grade of "C" or better is required for all other courses.

Graduate Record Exam (GRE): A minimum composite score of 270 (Verbal + Quantitative), and a minimum Written score of 3.0.

Clinical Observation: Students must complete a minimum of 80 observation hours supervised by a licensed physical therapist in at least 3 different settings; at least 20 hours must be in an inpatient acute care or hospital setting. Please note that sub-acute, rehab, skilled nursing home or extended care facilities do not qualify as a hospital or acute care setting. See PTCAS for a copy of an Observation Hours Verification form.

Personal Interview: Applicants who meet eligibility requirements are invited for a personal interview. Phone interviews may be acceptable, though not preferred.

English Proficiency: Applicants who have been given any part of their education outside the U.S. or Canada or whose first language is not English must demonstrate English proficiency by providing evidence through one of the following methods. Exceptions may be granted by the Department of Physical Therapy on an individual basis. Test must be taken within one year prior to application. **TOEFL internet-based test (iBT) is preferred.** Official TOEFL scores must be sent directly to PTCAS from Educational Testing Service (ETS). The PTCAS ETS code is 531.

Minimum Requirements

TOEFL Internet-based test (iBT)(preferred)	111 (minimum of 15 in Reading, 15 in Listening, 18 in Speaking and 17 in Writing)
TOEFL Paper-based test	640 (minimum of 56 in each section)
IELTS Academic Version	8.0
MELAB	92 (minimum of 80 in each section)
PTE Academic Version	72

For students applying to the DPT program beginning Fall 2016 (students applying prior to Fall 2016 should consult PT Admissions):

Prerequisite courses including general education requirements for students WITHOUT an earned bachelor's degree

Requires a minimum of 92 semester credits, with at least 15 credits being upper-division. Applicants are considered when a minimum of 4 or more prerequisite science courses and a minimum of 60 semester credits have been completed.

General Education Requirements

See professional program requirements and note the following **specific** requirements:

Religion:

- one religion course per academic year of attendance at Andrews University. Required course:
- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3

Language/Communication:

- professional degree requirements

History:

- professional degree requirements

Fine Arts/Humanities:

- professional degree requirements

Life/Physical Sciences:

Life Science:

- A full sequence of Anatomy and Physiology with labs, **and**
- One course of the General Biology sequence required for pre-med students (not botany) with lab, **and**
- One 3-semester credit *upper division* human biology or exercise physiology course.

Physical Science:

- A full sequence of General Physics with labs, as required for pre-med students
- A full sequence of General Chemistry with labs, as required for pre-med students

Mathematics:

- A basic statistics or research methods course

Service:

- fulfilled through professional components of the program

Social Sciences:

Psychology

- An introductory psychology course.

Fitness Education:

recommend Andrews freshmen take HLED 120 and one additional course from personal fitness, outdoor skills or team activity. Non-Andrews students take two from the three categories above.

Human Development:

- A course which covers human development throughout the lifespan.

Medical Terminology:

- A course in basic medical terminology. May be taken by distance learning.

Electives:

- To fulfill the 92 total semester credits with at least 15 in upper division courses required, some course suggestions include business courses, ethics, cultural and diversity courses, arts and humanities, nutrition and physical activities.

Prerequisite courses for students WITH an earned bachelor's degree:

Life/Physical Sciences

Life Science:

- A full sequence of Anatomy and Physiology with labs, **and**
- One course of the General Biology sequence required for pre-med students (not botany) with lab, **and**
- One 3-semester credit *upper division* human biology or exercise physiology course

Physical Science:

- A full sequence of General Physics with labs, as required for pre-med students
- A full sequence of General Chemistry with labs, as required for pre-med students

Mathematics:

- A basic statistics or research methods course.

Social Sciences

Psychology

- An introductory psychology course.

Human Development

- A course which covers human development throughout the lifespan.

Medical Terminology:

- A course in basic medical terminology. May be taken by distance learning.

BHS: Bachelor of Health Science (Interim Degree)

Students successfully completing the appropriate prerequisites and the first two semesters (36 credits) of the professional program qualify for the Bachelor of Health Science Degree. Successful completion of the BHS is defined as:

- An earned minimum grade of "C+" (2.33) or "S" (in a "S/U" course) in each DPT program course. The BHS program courses include PTH 400, PTH 410, PTH 415, PTH 416, PTH 418, PTH 420, PTH 425, PTH 426, PTH 428, PTH 430, PTH 440, PTH 445, PTH 450, PTH 455, PTH 457, and PTH 460.
- No more than a cumulative total of five points earned on the grade-point scale throughout the physical therapy program (see DPT Student Handbook).
- Students must be able to perform skills listed in the Technical Standards of Performance and demonstrate professional behaviors as outlined in the DPT Student Handbook.
- Maintain a cumulative GPA of 2.50 or greater in all credits used to meet the BHS degree requirements.

DPT: Doctor of Physical Therapy

Upon successful completion of the professional phase of the program (116 credits) students earn the Doctor of Physical Therapy degree. All coursework scheduled for each semester must be successfully completed prior to advancing to the next semester. Successful completion of the DPT program is defined as:

- Completion of a bachelor's degree (BHS or other).
- An earned minimum grade of "C+" (2.33) or "S" in each DPT program course. DPT program courses include: PTH 400, PTH 410, PTH 415, PTH 416, PTH 418, PTH 420, PTH 425, PTH 426, PTH 428, PTH 430, PTH 440, PTH 445, PTH 450, PTH 455, PTH 457, PTH 460, PTH 540, PTH 601, PTH 602, PTH 610, PTH 611, PTH 612, PTH 620, PTH 621, PTH 622, PTH 625, PTH 627, PTH 632, PTH 635, PTH 637, PTH 640, PTH 645, PTH 646, PTH 647, PTH 650, PTH 651, PTH 652, PTH 661, PTH 662, PTH 680, PTH 711, PTH 712, PTH 721, PTH 722, PTH 726, PTH 728, PTH 736, PTH 748, PTH 765, PTH 768, PTH 770, PTH 799, PTH 870, PTH 880, PTH 881, PTH 882, PTH 883, PTH 884.
- Maintain a cumulative DPT program GPA of 3.00.
- No more than a cumulative total of five points earned on the grade-point scale throughout the physical therapy program (see DPT Student Handbook).
- Students must be able to perform skills listed in the Technical Standards of Performance and demonstrate professional behaviors as outlined in the DPT Student Handbook.
- Satisfactory completion of the practical and written comprehensive exams: PTH 770, PTH 870.
- Satisfactory completion of a capstone project and presentation.
- Satisfactory completion of five clinical internships and the associated "Clinical Performance Instrument."
- Satisfactory completion of the exit interview.

Continued Enrollment Requirements

- Progressive enrollment in the physical therapist education program requires successful completion of all Physical Therapy program course work including clinical education listed for the previous academic term.
- A student whose cumulative GPA falls below 3.00 in any given academic term is placed on academic probation. Students who do not increase their cumulative GPA to 3.00 during the academic term of probation are normally asked to withdraw.
- Students who receive less than a "C+" (2.33) or a "U" on a "S/U" course or clinical will be given "grade points" equal to the semester credit for the course. A student who accumulates six or more points will academically disqualify him/herself from continuing in the program.

- PTH 400 - Anatomy Credits: 4
- PTH 410 - Anatomy Laboratory Credits: 3
- PTH 415 - PT Assessment Skills Credits: 3
- PTH 416 - Pathokinesiology Credits: 3
- PTH 418 - General Medicine Credits: 2
- PTH 420 - Therapeutic Interventions Credits: 3
- PTH 425 - PT Assessment Skills Laboratory Credits: 3
- PTH 426 - Pathokinesiology Laboratory Credits: 2
- PTH 428 - General Medicine Laboratory Credits: 1
- PTH 430 - Therapeutic Interventions Laboratory Credits: 2
- PTH 440 - Pathophysiology I Credits: 3
- PTH 445 - Neuroscience Credits: 2
- PTH 450 - Neurology of Motor Control Credits: 1
- PTH 455 - Neuroscience Laboratory Credits: 1
- PTH 457 - Orthopedic Medicine Credits: 1
- PTH 460 - Topics in Comparative Religion Credits: 1
- PTH 540 - Pathophysiology II Credits: 2
- PTH 601 - Orthopedics I Credits: 2
- PTH 602 - Orthopedics II Credits: 2
- PTH 610 - Principles of Therapeutic Exercise Credits: 2
- PTH 611 - Orthopedics I Laboratory Credits: 2
- PTH 612 - Orthopedics II Laboratory Credits: 2
- PTH 620 - Principles of Therapeutic Exercise Laboratory Credits: 2
- PTH 622 - Research Statistics Credits: 1
- PTH 625 - Cardiopulmonary Credits: 2
- PTH 627 - Orthotics and Prosthetics Credits: 1
- PTH 632 - Research Statistics Laboratory Credits: 1
- PTH 635 - Cardiopulmonary Laboratory Credits: 1

- PTH 637 - Orthotics and Prosthetics Laboratory Credits: 1
- PTH 640 - Pediatrics Credits: 2
- PTH 645 - Physical Therapy Administration and Leadership Credits: 4
- PTH 646 - Integration of Spirituality in Health Care Credits: 2,3
- PTH 647 - Differential Diagnosis Credits: 2,3
- PTH 650 - Pediatrics Laboratory Credits: 2
- PTH 651 - Neurology I Credits: 2
- PTH 652 - Neurology II Credits: 2
- PTH 661 - Neurology I Laboratory Credits: 2
- PTH 662 - Neurology II Laboratory Credits: 2
- PTH 680 - Clinical Practicum Credits: 2
- PTH 711 - Clinical Reasoning I Credits: 1
- PTH 712 - Clinical Reasoning II Credits: 1
- PTH 721 - Clinical Reasoning I Laboratory Credits: 1
- PTH 722 - Clinical Reasoning II Laboratory Credits: 1
- PTH 726 - Geriatrics Credits: 2
- PTH 728 - Christian Finance Seminar Credits: 1
- PTH 736 - Psychosocial Issues in Healthcare Credits: 3
- PTH 748 - Educational Techniques for Health Care Professionals Credits: 1,2
- PTH 765 - Ethical & Legal Issues in Healthcare Credits: 1
- PTH 768 - Professional Compendium Credits: 1
- PTH 770 - Practical Comprehensive Examination Credits: 0
- PTH 799 - Research Project (topic) Credits: 1,2
- PTH 870 - Written Comprehensive Examination Credits: 0
- PTH 880 - PT Seminar Credits: 1
- PTH 881 - Clinical Internship I Credits: 4
- PTH 882 - Clinical Internship II Credits: 4
- PTH 883 - Clinical Internship III Credits: 5
- PTH 884 - Clinical Internship IV Credits: 5

Physical Therapy, Concentration in Orthopedic Manual Therapy DScPT

Program Description

This degree is designed to prepare the clinical specialist in orthopedic manual therapy and incorporates courses from the North American Institute of Orthopedic Manual Therapy.

Total Credits – 63

Degree Core Requirements – 33

This full-time on campus option is available for students with a BS or Masters Degree.

- PTH 500 - Doctoral Colloquium Credits: 2
- PTH 541 - Physiological Basis for Exercise Prescription: Level I Credits: 3
- PTH 549 - Principles of Contemporary Leadership Credits: 3
- 3 Credits of PTH 590 - Topics in _____ Credits: 1
- PTH 608 - Post Operative Management of Common Orthopedic Surgeries Credits: 2
- PTH 609 - Evidenced Based Orthopedic Clinical Practice: A Research Review Credits: 2
- PTH 615 - Clinical Pharmacology Credits: 2
- PTH 630 - Clinical Research Credits: 2
- 3 Credits of PTH 646 - Integration of Spirituality in Health Care Credits: 2,3
- 3 Credits of PTH 647 - Differential Diagnosis Credits: 2,3
- PTH 718 - Clinical Screening & Differential Diagnosis Credits: 3
- PTH 730 - Medical Diagnostics Credits: 2
- PTH 740 - Advanced Topics in Clinical Research Credits: 3
- 1 Credits of PTH 748 - Educational Techniques for Health Care Professionals Credits: 1,2
- PTH 760 - Applications in Clinical Research Credits: 2

Concentration - 24

- PTH 536 - NAIOMT Level I: Introduction to Fundamentals of Orthopedic Credits: 3
- PTH 537 - NAIOMT Level II: Intermediate Upper Quadrant Credits: 3
- PTH 538 - NAIOMT Level II: Intermediate Lower Quadrant Credits: 3
- PTH 546 - NAIOMT Level III: Advanced Upper Quadrant Credits: 3
- PTH 547 - NAIOMT Level III: Advanced Lower Quadrant Credits: 3
- PTH 548 - NAIOMT Level IV: High Velocity Manipulation Credits: 3
- PTH 550 - NAIOMT Supervised Clinical Practice Credits: 1-4
- PTH 557 - NAIOMT: Thoracic Spine Credits: 2

Professional Contribution Curriculum - 6

- PTH 798 - Capstone Experience Credits: 1

Admission Requirements

- Students must have graduated from an approved school of physical therapy and be licensed to practice physical therapy in their country of origin or county in which they live.
- Students must have the equivalent of a four-year U.S. bachelor's degree. Students with a bachelor's degree must have two years of experience working as a physical therapist prior to applying.
- Students must submit graduate application.
- Students must submit an original copy of all academic transcripts from any institution where classes were taken. In addition, if the transcripts are not written in English, a copy in the original language as well as the English translation are required.
- Students must submit a copy of physical therapy license. If license is not in English a translated copy must be submitted as well.
- Students must submit a minimum of three satisfactory recommendations: one from a currently practicing physical therapist, one from a medical doctor or supervisor, and one from another person familiar with the candidate.
- For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.
- For candidates holding a master's degree or DPT degree, receipt of professional portfolio.
- English Proficiency - Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Graduation Requirements

- A minimum of 32 credits must be taken at regular tuition for degree conferral.
- Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program. Completed by registering for PTH 770 - Practical Comprehensive Examination
- No grade lower than "C" (2.00) in any course.
- A minimum cumulative GPA of 3.00.
- Successful completion of the capstone project. Completed by registering for 6 credits of PTH 798 - Capstone Experience
- Satisfactory completion of the program exit interview.

Physical Therapy, Concentration in Orthopedic Manual Therapy DScPT (Distance Ed)

Interactive Online Delivery

This program is delivered mostly in an interactive online format, but has nine sessions of required on-campus attendance (see School of Distance Education Definitions). All of the the courses follow fixed enrollment with specific start and end dates. Participants interact with each other and with instructor throughout all courses. Students are encouraged to come to campus for graduation.

Program Description

This degree is designed to prepare the clinical specialist in orthopedic manual therapy and incorporates courses from the North American Institute of Orthopedic Manual Therapy.

Option 1: Total Credits - 64

This Distance Learning option is for students with a BS or Masters degree.

Core Requirements - 27

- PTH 500 - Doctoral Colloquium Credits: 2
- PTH 541 - Physiological Basis for Exercise Prescription: Level I Credits: 3
- PTH 549 - Principles of Contemporary Leadership Credits: 3
- PTH 615 - Clinical Pharmacology Credits: 2
- PTH 630 - Clinical Research Credits: 2
- PTH 646 - Integration of Spirituality in Health Care Credits: 2,3
- PTH 718 - Clinical Screening & Differential Diagnosis Credits: 3
- PTH 730 - Medical Diagnostics Credits: 2
- PTH 740 - Advanced Topics in Clinical Research Credits: 3
- PTH 748 - Educational Techniques for Health Care Professionals Credits: 1,2
- PTH 760 - Applications in Clinical Research Credits: 2

Manual Therapy Concentration - 24

- PTH 536 - NAIOMT Level I: Introduction to Fundamentals of Orthopedic Credits: 3
- PTH 537 - NAIOMT Level II: Intermediate Upper Quadrant Credits: 3
- PTH 538 - NAIOMT Level II: Intermediate Lower Quadrant Credits: 3
- PTH 546 - NAIOMT Level III: Advanced Upper Quadrant Credits: 3
- PTH 547 - NAIOMT Level III: Advanced Lower Quadrant Credits: 3
- PTH 548 - NAIOMT Level IV: High Velocity Manipulation Credits: 3
- PTH 550 - NAIOMT Supervised Clinical Practice Credits: 1-4
- PTH 557 - NAIOMT: Thoracic Spine Credits: 2

Professional Contribution Curriculum - 6

- PTH 798 - Capstone Experience Credits: 1

Program Electives - 7

- Plus 7 approved elective credits.

Option 2: Total Credits - 38

This Distance Learning option is for students with a DPT degree.

Core Requirements - 5

- PTH 549 - Principles of Contemporary Leadership Credits: 3
- PTH 760 - Applications in Clinical Research Credits: 2

Manual Therapy Concentration - 24

- PTH 536 - NAIOMT Level I: Introduction to Fundamentals of Orthopedic Credits: 3
- PTH 537 - NAIOMT Level II: Intermediate Upper Quadrant Credits: 3
- PTH 538 - NAIOMT Level II: Intermediate Lower Quadrant Credits: 3
- PTH 546 - NAIOMT Level III: Advanced Upper Quadrant Credits: 3
- PTH 547 - NAIOMT Level III: Advanced Lower Quadrant Credits: 3
- PTH 548 - NAIOMT Level IV: High Velocity Manipulation Credits: 3
- PTH 550 - NAIOMT Supervised Clinical Practice Credits: 1-4
- PTH 557 - NAIOMT: Thoracic Spine Credits: 2

Professional Contribution Curriculum - 6

- PTH 798 - Capstone Experience Credits: 1

Program Electives - 3

- Plus 3 approved elective credits.

Option 3: Total Credits - 39

This Distance Learning option is for students with a DPT degree who have already completed the Orthopedic Clinical Residency Program at Andrews University. 17

credits from the Andrews University Orthopedic Residency Program will apply towards the 39 credits required to complete this degree.

Core Requirements - 5

- PTH 549 - Principles of Contemporary Leadership Credits: 3
- PTH 760 - Applications in Clinical Research Credits: 2

Manual Therapy Concentration - 11

- PTH 546 - NAIOMT Level III: Advanced Upper Quadrant Credits: 3
- PTH 547 - NAIOMT Level III: Advanced Lower Quadrant Credits: 3
- PTH 548 - NAIOMT Level IV: High Velocity Manipulation Credits: 3
- PTH 550 - NAIOMT Supervised Clinical Practice Credits: 1–4

Professional Contribution Curriculum - 6

- PTH 798 - Capstone Experience Credits: 1

Option 4: Total Credits – 38

This is a specialized Distance Learning option for students with a DPT degree who already have FAAOMPT or manual therapy certification from another approved institution.

Core Requirements - 5

- PTH 549 - Principles of Contemporary Leadership Credits: 3
- PTH 760 - Applications in Clinical Research Credits: 2

Manual Therapy Concentration - 3

- PTH 548 - NAIOMT Level IV: High Velocity Manipulation Credits: 3

Professional Contribution Curriculum - 6

- PTH 798 - Capstone Experience Credits: 1

Program Electives - 24

- Remaining curriculum is to be individually arranged by the director with input from the student.

Admission Requirements

- Students must have graduated from an approved school of physical therapy and be licensed to practice physical therapy in their country of origin or county in which they live.
- Students must have the equivalent of a four-year U.S. bachelor's degree. Students with a bachelor's degree must have two years of experience working as a physical therapist prior to applying.
- Students must submit graduate application.
- Students must submit an original copy of all academic transcripts from any institution where classes were taken. In addition, if the transcripts are not written in English, a copy in the original language as well as the English translation are required.
- Students must submit a copy of physical therapy license. If license is not in English a translated copy must be submitted as well.
- Students must submit a minimum of three satisfactory recommendations: one from a currently practicing physical therapist, one from a medical doctor or supervisor, and one from another person familiar with the candidate.
- For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.
- For candidates holding a master's degree or DPT degree, receipt of professional portfolio.
- English Proficiency - Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Graduation Requirements

- A minimum of 32 credits must be taken at regular tuition for degree conferral.
- Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program. Completed by registering for PTH 770 - Practical Comprehensive Examination
- No grade lower than "C" (2.00) in any course.
- A minimum cumulative GPA of 3.00.
- Successful completion of the capstone project. Completed by registering for 6 credits of PTH 798 - Capstone Experience

Satisfactory completion of the program exit interview.

Transitional Doctor of Physical Therapy DPT

Degree Core Requirements – 35

- 2 Credits of PTH 460 - Topics in Comparative Religion Credits: 1
- PTH 500 - Doctoral Colloquium Credits: 2
- PTH 536 - NAIOMT Level I: Introduction to Fundamentals of Orthopedic Credits: 3
- PTH 541 - Physiological Basis for Exercise Prescription: Level I Credits: 3
- PTH 615 - Clinical Pharmacology Credits: 2
- PTH 630 - Clinical Research Credits: 2
- 3 Credits of PTH 646 - Integration of Spirituality in Health Care Credits: 2,3
- 2 Credits of PTH 647 - Differential Diagnosis Credits: 2,3
- PTH 730 - Medical Diagnostics Credits: 2
- PTH 740 - Advanced Topics in Clinical Research Credits: 3
- 1 Credit of PTH 748 - Educational Techniques for Health Care Professionals Credits: 1,2
- PTH 760 - Applications in Clinical Research Credits: 2
- PTH 798 - Capstone Experience Credits: 1
- PTH 549 - Principles of Contemporary Leadership Credits: 3

Admission Requirements

- Students must have graduated from an approved school of physical therapy and be licensed to practice physical therapy in their country of origin or county in which they live.
- Students must have the equivalent of a four-year U.S. bachelor's degree. Students with a bachelor's degree must have two years of experience working as a physical therapist prior to applying.
- Students must submit graduate application.
- Students must submit an original copy of all academic transcripts from any institution where classes were taken. In addition, if the transcripts are not written in English, a copy in the original language as well as the English translation are required.
- Students must submit a copy of physical therapy license. If license is not in English a translated copy must be submitted as well.
- Students must submit a minimum of three satisfactory recommendations: one from a currently practicing physical therapist, one from a medical doctor or supervisor, and one from another person familiar with the candidate.
- For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.
- For candidates holding a master's degree or DPT degree, receipt of professional portfolio.
- English Proficiency - Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Graduation Requirements

- A minimum of 32 credits must be taken at regular tuition for degree conferral.
- Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program. Completed by registering for PTH 770 - Practical Comprehensive Examination
- No grade lower than "C" (2.00) in any course.
- A minimum cumulative GPA of 3.00.
- Successful completion of the capstone project. Completed by registering for 6 credits of PTH 798 - Capstone Experience
- Satisfactory completion of the program exit interview.

Transitional Doctor of Physical Therapy DPT (Distance Ed)

Interactive Online Delivery

This program is delivered mostly online, but has 11 days of required on-campus attendance (see School of Distance Education Definitions). There are two on campus sessions within the first year of the program, one in August for 5 days and the second in December for 6 days. All of the the courses follow fixed enrollment with specific start and end dates. Participants interact with each other and with instructor throughout all courses. Students are encouraged to come to campus for graduation.

Degree Core Requirements - 35

- PTH 500 - Doctoral Colloquium Credits: 2
- PTH 541 - Physiological Basis for Exercise Prescription: Level I Credits: 3
- PTH 549 - Principles of Contemporary Leadership Credits: 3
- PTH 590 - Topics in _____ Credits: 1
- PTH 615 - Clinical Pharmacology Credits: 2
- PTH 630 - Clinical Research Credits: 2
- 3 Credits of PTH 646 - Integration of Spirituality in Health Care Credits: 2,3
- PTH 718 - Clinical Screening & Differential Diagnosis Credits: 3
- PTH 730 - Medical Diagnostics Credits: 2
- PTH 740 - Advanced Topics in Clinical Research Credits: 3
- 2 Credits of PTH 748 - Educational Techniques for Health Care Professionals Credits: 1,2
- PTH 750 - Professional Communication & Consulting Credits: 2
- PTH 760 - Applications in Clinical Research Credits: 2
- PTH 798 - Capstone Experience Credits: 1

Admission Requirements

- Students must have graduated from an approved school of physical therapy and be licensed to practice physical therapy in their country of origin or county in which they live.
- Students must have the equivalent of a four-year U.S. bachelor's degree. Students with a bachelor's degree must have two years of experience working as a physical therapist prior to applying.
- Students must submit graduate application.
- Students must submit an original copy of all academic transcripts from any institution where classes were taken. In addition, if the transcripts are not written in English, a copy in the original language as well as the English translation are required.
- Students must submit a copy of physical therapy license. If license is not in English a translated copy must be submitted as well.
- Students must submit a minimum of three satisfactory recommendations: one from a currently practicing physical therapist, one from a medical doctor or supervisor, and one from another person familiar with the candidate.
- For candidates holding a bachelor's degree, with no advanced master's, receipt of PTET scores.
- For candidates holding a master's degree or DPT degree, receipt of professional portfolio.
- English Proficiency - Students whose language of education is not English must submit a minimum TOEFL or MELAB score of 80.

Graduation Requirements

- A minimum of 32 credits must be taken at regular tuition for degree conferral.
- Level III Manual Therapy Certification through NAIOMT or equivalent certification from another approved program. Completed by registering for PTH 770 - Practical Comprehensive Examination
- No grade lower than "C" (2.00) in any course.
- A minimum cumulative GPA of 3.00.
- Successful completion of the capstone project. Completed by registering for 6 credits of PTH 798 - Capstone Experience
- Satisfactory completion of the program exit interview.

Certificates

Orthopedic Clinical Residency Program

This program is designed for the licensed physical therapist seeking to become a board certified orthopedic clinical specialist and is a jointly sponsored program between Andrews University and the North American Institute of Orthopedic Manual Therapy. Following successful completion of this program, students will receive a certificate of completion.

Certificate Requirements

The following certificate requirements apply to students successfully completing the orthopedic clinical residency program.

- Satisfactory completion of the following courses - 17 credits:
 - PTH 537 - NAIOMT Level II: Intermediate Upper Quadrant
 - PTH 538 - NAIOMT Level II: Intermediate Lower Quadrant
 - PTH 557 - NAIOMT: Thoracic Spine
 - PTH 608 - Post Operative Management of Common Orthopedic Surgeries
 - PTH 609 - Evidenced Based Orthopedic Clinical Practice: A Research Review
 - PTH 730 - Medical Diagnostics
- Successful completion of the oral/practical live patient examinations given through NAIOMT.
- Successful completion of the NAIOMT supervised clinical hour requirement at an approved clinical mentorship site.
- An earned minimum grade of "C" (2.00) or "S" (in a "S/U" course) in each program course.
- A minimum cumulative GPA of 3.00.

Admission Requirements

The following admissions requirements apply.

- Graduate of an accredited physical therapy program.
- Hold or be in the process of obtaining licensure as a physical therapist in the U.S. or Canada.
- Submit residency program application.
- Submit a portfolio following program guidelines.
- Submit a minimum of three satisfactory recommendations: one from the ACCE of the physical therapy program applicant attended; one from a faculty member of the physical therapy program applicant attended; one from a clinical supervisor the applicant interned with during physical therapy school. In the case of applicants who have been out of school longer than 3-5 years, the letters of recommendation may follow the same standards as the DScPT applicants.
- Submission of a mission statement and reasons for applying to this program.

Physical Therapy-Professional & Post-Professional

PTH 400 - Anatomy

Credits: 4 | A comprehensive study of human anatomy with emphasis on the nervous, skeletal, muscle, and circulatory systems. Introduction to basic embryology and its relation to anatomy and the clinical sciences concludes the course. Provides a solid morphological basis for a synthesis of anatomy, physiology, and the physical therapy clinical sciences. | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 410. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 410 - Anatomy Laboratory

Credits: 3 | Dissection and identification of structures in the cadaver supplemented with the study of charts, models, prosected materials and radiographs are used to identify anatomical landmarks and configurations. | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 400. | **Schedule Type:** Lab | **College Code:** SHP

PTH 415 - PT Assessment Skills

Credits: 3 | Introduction to assessment principles and examination skills utilized in all areas of physical therapy. The Guide to Physical Therapy Practice is referenced for the basic skills required in the assessment, intervention and documentation guidelines. | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 425. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 416 - Pathokinesiology

Credits: 3 | The study of human movement including an introduction to the basic concepts of biomechanics with an emphasis on human joint/muscle structures and function, advancing to analysis of body mechanics, normal gait analysis, and pathological movement analysis. Joint abnormalities will be identified using radiographs, related to the resultant movement dysfunction. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 400, PTH 410 and PTH 426. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 418 - General Medicine

Credits: 2 | Clinical techniques applied to the examination, evaluation, treatment, and discharge planning of patients in general medical and acute-care. Emphasis on physical therapy intervention with relevant factors, management of pain and physical complications during medical treatment, and examination and treatment of special populations including wound and burn care. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 428. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 420 - Therapeutic Interventions

Credits: 3 | Basic principles, physiologic effects, indications and contraindications, application and usage of equipment, and intervention rationale for hydrotherapy, thermal agents, wound care, massage, electrotherapy and mechanotherapy (traction) and other therapeutic interventions. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 430. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 425 - PT Assessment Skills Laboratory

Credits: 3 | Basic examination skills including surface palpation of specific underlying muscle and bone structures, joint motion (goniometry), manual procedures for testing muscle strength, sensation, vital signs, limb girth and volumetric measurement will be practiced. Clinical application in basic physical therapy care procedures will be introduced. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 415. | **Schedule Type:** Lab | **College Code:** SHP

PTH 426 - Pathokinesiology Laboratory

Credits: 2 | Biomechanical, and observational analysis, of normal and abnormal human movement. Integration of basic examination skills with gait and movement analysis. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 400, PTH 410 and PTH 416. | **Schedule Type:** Lab | **College Code:** SHP

PTH 428 - General Medicine Laboratory

Credits: 1 | Practice in assessment modified for the acute-care environment. Applications include home-and work-place evaluation for architectural barriers, functional evaluation tools, casting, and modification of treatment for acute care including goal setting and professional note writing. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 418. | **Schedule Type:** Lab | **College Code:** SHP

PTH 430 - Therapeutic Interventions Laboratory

Credits: 2 | Supervised practicum includes patient positioning and application of the therapy to obtain desired physiological response. Techniques of hydrotherapy, thermal agents, wound care, and massage, as well as specific electrotherapy and mechanotherapy treatments and assessment of physiological responses to those treatments. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 420. | **Schedule Type:** Lab | **College Code:** SHP

PTH 440 - Pathophysiology I

Credits: 3 | Sequence studying disease processes affecting major body systems and the resulting anatomical and pathophysiological changes. Clinical presentations and pharmacological treatment of patients with those disease processes are presented, as well as diagnostic tests and laboratory values used to identify pathological conditions. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** PTH 400 and PTH 410. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 445 - Neuroscience

Credits: 2 | Basic anatomy and functions of the central and peripheral nervous systems and their related structures. Pathways of the central and peripheral nervous system are examined along with a detailed study of each of the 12 pairs of cranial nerves. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 455. | **Prerequisite(s):** PTH 400 and PTH 410. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 450 - Neurology of Motor Control

Credits: 1 | An introduction to the function and interaction of the primary areas of the nervous system involved in controlling human movement, including the cortex, spinal cord, peripheral receptor system, basal ganglia, cerebellum, and the vestibular systems. Students are introduced to terminology and concepts associated with both normal function and pathology in these areas. | **Swing course**—Approved 400–499 courses qualify for graduate-level credit for graduate students | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 455 - Neuroscience Laboratory

Credits: 1 | Study of the prosected central and peripheral nervous tissues, models and charts. Imaging will be used to compare normal to abnormal CNS presentation. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 445. | **Prerequisite(s):** PTH 400 and PTH 410. | **Schedule Type:** Lab | **College Code:** SHP

PTH 457 - Orthopedic Medicine

Credits: 1 | Medical lectures covering selected topics in orthopedics, including common orthopedic diseases and the use of diagnostic testing and imaging in the orthopedic field. | **Swing course**—Approved 400–499 courses qualify for graduate-level credit for graduate students | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 460 - Topics in Comparative Religion

Credits: 1 | This course surveys the major religious traditions of the world. Study includes an overview of origins; major philosophical and theological underpinnings; typical aspects of worship and ethics; and major social, cultural, and political influences. Study is done from a consciously Christian framework. | **Swing course** | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable | **Schedule Type:** Lecture | **College Code:** SHP

PTH 495 - Independent Study/Readings/Research/Projects

Credits: 1 | Permission of department chair required prior to registration for all independent work. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable up to 8 credits | **Schedule Type:** Independent | **College Code:** SHP

PTH 500 - Doctoral Colloquium

Credits: 2 | A degree orientation which will include portfolio development and assessment, development of the degree contract, usage of James White Library system, and introduction to the Guide to Physical Therapy Practice. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 507 - Applied Clinical Anatomy & Kinesiology

Credits: 3 | Lecture/lab course studying regional anatomy and biomechanics as they relate to normal movement and the potential development of movement dysfunctions. Correlations between pathomechanics, clinical presentation of pathology and decision making for therapeutic interventions will be drawn. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 536 - NAIOMT Level I: Introduction to Fundamentals of Orthopedic

Credits: 3 | Manual Therapy & Differential Diagnosis Appropriate skills in basic and objective selective tissue examination necessary for generating a provisional differential diagnosis of spinal dysfunction. Signs, symptoms, pathology, and management of common spinal pathologies are reviewed. Selective tissue tensioning techniques for the peripheral joints are introduced. Cyriax's principles are presented. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 537 - NAIOMT Level II: Intermediate Upper Quadrant

Credits: 3 | A comprehensive biomechanical and anatomical review of the upper thoracic, upper and lower cervical spine, shoulder, elbow, wrist, and hand. Specific biomechanical assessment of each area is taught along with appropriate and effective treatment techniques for common injuries and mechanical dysfunctions. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 538 - NAIOMT Level II: Intermediate Lower Quadrant

Credits: 3 | A comprehensive biomechanical and anatomical review of the lower thoracic and lumbar spines, the hip, knee, ankle, and foot. Specific biomechanical assessment of each area is taught along with appropriate and effective treatment techniques for common injuries and dysfunctions. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 540 - Pathophysiology II

Credits: 2 | Sequence studying disease processes affecting major body systems and the resulting anatomical and pathophysiological changes. Clinical presentations and pharmacological treatment of patients with those disease processes considered, as well as diagnostic tests and laboratory values used to identify pathological conditions. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** PTH 440. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 541 - Physiological Basis for Exercise Prescription: Level I

Credits: 3 | Using the system of Medical Exercise Therapy founded by Odvar Holten, this course covers the physiological basis for exercise prescription specifically related to the healing process. Testing strategies, formulas for exercise dosing and equipment conducive to this approach will be presented along with computer software developed

to assist dosage and patient tracking. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 542 – Physiological Basis for Exercise Prescription: Level II

Credits: 2 | Expanding on the knowledge presented in Level I, this course will go into more complex scenarios of patient impairments and more in depth spinal rehabilitation including advanced computer software training. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 545 – Advanced Clinical Physiology

Credits: 3 | The review of human physiological function of the major body systems with clinical application to musculoskeletal, cardiovascular and pulmonary conditions. Detailed information on exercise physiology will be discussed along with clinical applications among patients with compromised health. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 546 – NAIOMT Level III: Advanced Upper Quadrant

Credits: 3 | Builds on the techniques learned in Level II and helps the student understand the kinetic chain interrelationships of the upper quadrant. Integrates information generated in the assessment to understand how remote dysfunctions can be causal or contributory. Advanced techniques are demonstrated along with new material on temporo-mandibular-joint material and peripheral manipulation skills. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** PTH 537. | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 547 – NAIOMT Level III: Advanced Lower Quadrant

Credits: 3 | Builds on the techniques learned in Level II and helps the student understand the kinetic chain interrelationships in the lower quadrant. Presents advanced biomechanical tests and treatment and includes the sacroiliac and pubic joints. Discusses the integration of examination and treatment techniques. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** PTH 538. | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 548 – NAIOMT Level IV: High Velocity Manipulation

Credits: 3 | Instructs the student on the indications and contraindications, as well as the safe and effective application of spinal, pelvic, and costal manipulation techniques. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** PTH 546 and PTH 547. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 549 – Principles of Contemporary Leadership

Credits: 3 | Theory and application of complexity sciences to organizational management; exploration of key leadership roles and changing paradigms; presentation of methods to maximize personal and professional life. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PTH 550 – NAIOMT Supervised Clinical Practice

Credits: 1–4 | Using a 3-to1 model, students will be required to do a minimum of 60 supervised clinical hours applying hands-on techniques with patients under the supervision of a certified NAIOMT clinical instructor, FAAOMPT, or other approved instructors. These hours can be split up into two 30-hour blocks, or other increments as agreed upon by the student and CI. No less than 15 hours can be registered for at any given time. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Repeatable:** Repeatable up to 4 credits | **Schedule Type:** Practicum | **College Code:** SHP

PTH 557 – NAIOMT: Thoracic Spine

Credits: 2 | Lecture/lab course studying the thoracic spine as a source of spinal dysfunction. Emphasis is placed on a biomechanical model for detailed examination and treatment of the thoracic spine and costovertebral dysfunction. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 589 – Professional Seminar

Credits: 1,2 | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Seminar | **College Code:** SHP

PTH 590 – Topics in _____

Credits: 1 | Selected topics in physical therapy. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** Specific prerequisites may be required for some subject areas. | **Repeatable:** Repeatable | **Schedule Type:** Lecture, Independent, Interactive Online | **College Code:** SHP

PTH 601 – Orthopedics I

Credits: 2 | Presentation of fundamental physical therapy knowledge in the assessment and intervention of a patient with both acute and chronic conditions of the extremities. Screening of the cervical and lumbar spine prior to tests is covered, progressing to complete assessment and treatment of extremity joint pathologies. Diagnostic tests and results pertinent to the orthopedic patient are related to a

physical therapy differential diagnosis. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 611. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 602 – Orthopedics II

Credits: 2 | A continuation of the presentation of information regarding orthopedic pathology of the spine with emphasis on treatment techniques for the different pathologies from a physician and physical therapist's perspective. A decision making model focusing on a differential diagnosis is incorporated throughout the course. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 612. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 608 – Post Operative Management of Common Orthopedic Surgeries

Credits: 2 | This course covers the surgical techniques, guidelines for acute postoperative management and principles needed to safely design a rehabilitation program which will enable the patient to return to their previous level of function. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 609 – Evidenced Based Orthopedic Clinical Practice: A Research Review

Credits: 2 | This course covers an up-to-date understanding of evidence supporting the evaluation and treatment of orthopedic pathologies. Keys to a working knowledge of contemporary research methodology and design along with the ability to analyze results of published studies from the perspective of statistical analysis will be presented. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 610 – Principles of Therapeutic Exercise

Credits: 2 | Examines the systemic responses to exercise as related to both an acute nature and in response to training. Specific pathological conditions are discussed in relation to exercise testing and prescription, and a clinical decision making process is presented for working with additional pathological conditions. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 620. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 611 – Orthopedics I Laboratory

Credits: 2 | Clinical application and practice in the special techniques to assess and treat acute and chronic orthopedic pathologies of the extremities and spine. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH601. | **Schedule Type:** Lab | **College Code:** SHP

PTH 612 – Orthopedics II Laboratory

Credits: 2 | Designed for practice of the special techniques required in the assessment of intervention of acute and chronic orthopedic pathologies of the cervical, thoracic, and lumbar spine. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 602. | **Schedule Type:** Lab | **College Code:** SHP

PTH 615 – Clinical Pharmacology

Credits: 2 | Develops a non-prescriptive knowledge of specific medications including indications, contraindications, precautions, adverse reactions, and dosage, especially as related to physiological effects of physical therapy interventions. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 616 – Scholarly Inquiry and Dissemination I

Credits: 1 | Introduction to the principles and practice of research including: research and null hypothesis, research questions, research design, research ethics and IRB protocol, sampling, validity and reliability, methodology, hypothesis testing and critical evaluation of physical therapy literature. Knowledge of the concepts needed for writing a graduate research proposal is interwoven throughout this course to prepare students for the Capstone Project. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 617 – Scholarly Inquiry and Dissemination II

Credits: 1 | Application of the principles and practice of research, including designs, IRB, ethics, hypothesis testing and critical evaluation of clinical literature as they relate to preparation of the Capstone Research Project. Preparation and development of a graduate research proposal is interwoven throughout this course. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 620 – Principles of Therapeutic Exercise Laboratory

Credits: 2 | Practical demonstration and experience with responses to exercise, testing procedures, and exercise prescription, focusing on activities appropriate for clinical situations. Tests and interventions noted in the Physical Therapy Guide to Practice are highlighted. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 610. | **Schedule Type:** Lab | **College Code:** SHP

PTH 622 – Research Statistics

Credits: 1 | Fundamental procedures in collecting, summarizing, presenting, analyzing, and interpreting statistical data. Statistical tests applied to medical specialties. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 632. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 625 - Cardiopulmonary

Credits: 2 | Lectures covering selected topics in cardiopulmonary medicine, focusing on clinical presentation, diagnostic tests, and medical and physical therapy interventions. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 635. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 627 - Orthotics and Prosthetics

Credits: 1 | Prosthetic management of amputees, management of patients with disabilities requiring orthotic intervention, and application/management of traction and orthotic devices. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 637. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 630 - Clinical Research

Credits: 2 | Introduces the student to basic concepts of biostatistics and research design and the formulation of evidence based practice theories. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning, Interactive Online | **College Code:** SHP

PTH 632 - Research Statistics Laboratory

Credits: 1 | Practice in the computation of statistical data using appropriate formulas. Practical applications of techniques in research and statistical computations including probability, normal distribution, Chi Square, correlations, and linear regressions. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 622. | **Schedule Type:** Lab | **College Code:** SHP

PTH 635 - Cardiopulmonary Laboratory

Credits: 1 | Emphasis on physical therapy assessment and intervention with cardiac and pulmonary patients. Practice of relevant techniques, such as stress testing, percussion, pulmonary function tests and breathing techniques, as well as other techniques identified in the Physical Therapy Guide to Practice. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 625. | **Schedule Type:** Lab | **College Code:** SHP

PTH 637 - Orthotics and Prosthetics Laboratory

Credits: 1 | Practice of the physical therapy techniques required in the application of orthotic and prosthetic devices. Special attention given to gait and function. Selected topics such as wheelchair modifications, miscellaneous ortho-rehab apparatus, and other assistive/adaptive devices included. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 627. | **Schedule Type:** Lab | **College Code:** SHP

PTH 640 - Pediatrics

Credits: 2 | An overview of embryologic development, followed by normal infant/child development to 5 years of age with an emphasis on motor development. Identification of assessment techniques for infants and children with normal and abnormal development. Description of various pediatric pathologies encountered in physical therapy with appropriate corresponding assessment and treatment approaches. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 650. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 645 - Physical Therapy Administration and Leadership

Credits: 4 | A study of the organizational structures, operations, and financing of healthcare delivery institutions and an examination of the organization and interrelationship of their professional and support elements. Application of current health care management strategies and theory are related to the acute-care facility and independent practice. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 646 - Integration of Spirituality in Health Care

Credits: 2,3 | A discussion of spiritual values from a Christian perspective, how faith and spirituality facilitate the healing process, and how these can be incorporated into patient care. Attention will be given to discerning and addressing the spiritual needs of patients/clients, family members, and ancillary medical staff in a professional environment. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Lecture, Interactive Online | **College Code:** SHP

PTH 647 - Differential Diagnosis

Credits: 2,3 | Analysis of the decision-making process, with special focus on clinical guidelines, Physical Therapy Guide to Practice, and differential diagnosis. Differential diagnosis is addressed through comparison of systemic signs and symptoms, as well as appropriate diagnostic tests which may indicate involvement of a problem outside of the scope of PT practice. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 650 - Pediatrics Laboratory

Credits: 2 | Practice of physical therapy assessment of the infant/child that addresses different developmental domains. Practice in the special techniques required in assessment and treatment of pediatric patients diagnosed with selected pathologies. Introduces current treatment approaches, such as Neurodevelopmental Treatment (NDT), with their effects on treatment goals. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 640. | **Schedule Type:** Lab | **College Code:** SHP

PTH 651 - Neurology I

Credits: 2 | Review of basic neurophysiological mechanisms specific to nervous system dysfunction, related to clinical concepts in treatment of conditions affecting the nervous system, such as spinal cord injury, head injury, stroke, and selected peripheral pathologies. Emphasis on comparing and contrasting facilitation techniques. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 661. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 652 - Neurology II

Credits: 2 | Continuation of PTH 651 - Neurology I, focusing on assessment and intervention with selected neurologic conditions. Common treatment techniques are compared with rationale for use of each. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 662. | **Prerequisite(s):** PTH 651. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 655 - Program Continuation

Credits: 0 | Students may register for this non-credit continuation course while clearing deferred grade (DG) and/or incomplete (I) courses. Registration for this course indicates active status. Requires program approval. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 661 - Neurology I Laboratory

Credits: 2 | Clinical application, rehabilitation practice, and techniques applied to nervous system dysfunction. Intervention techniques for conditions affecting the nervous system, such as spinal cord injury, head injury, stroke, and selected peripheral pathologies. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 651. | **Schedule Type:** Lab | **College Code:** SHP

PTH 662 - Neurology II Laboratory

Credits: 2 | Clinical application, rehabilitation practice, and techniques applied to basic physiological and neurophysiological mechanisms specific to nervous system dysfunction. Focus on techniques appropriate for use with neurologic patients and evaluation of patient response to treatment. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 652. | **Prerequisite(s):** PTH 661. | **Schedule Type:** Lab | **College Code:** SHP

PTH 680 - Clinical Practicum

Credits: 2 | Practice of the knowledge and skills developed in the classroom and laboratory in a patient-care setting. This practicum consists of 4 weeks full-time physical therapy experience in clinical facilities affiliated with the university. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

PTH 690 - Independent Study

Credits: 1 | Individualized study and/or research in a specialized area under the guidance of an instructor. Permission from the department chair required prior to registration. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable up to 8 credits | **Schedule Type:** Independent | **College Code:** SHP

PTH 697 - Independent Learning Contract

Credits: 2 | The student, working with their advisor and following degree/course guidelines, will develop an independent 40-hour learning contract with a qualified clinical specialist to facilitate intensive focused clinical training in a field of study of their choosing. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 711 - Clinical Reasoning I

Credits: 1 | A course intended to enhance the skills associated with clinical reasoning within the Physical Therapy setting. It will address the thought process that enters into every aspect of patient care in the practice of physical therapy, from the history to the physical exam; the differential diagnosis to the development of the prognosis; the plan of intervention to the eventual discharge. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** Corerequisite: PTH 721. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 712 - Clinical Reasoning II

Credits: 1 | A continuation of PTH 711 Clinical Reasoning I. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 722. | **Prerequisite(s):** PTH 711. | **Schedule Type:** Lecture | **College Code:** SHP

PTH 718 - Clinical Screening & Differential Diagnosis

Credits: 3 | Knowledge and clinical skills designed for screening patients for medical conditions. Differential diagnosis is addressed through comparison of systematic signs and symptoms. Appropriate diagnostic tests which may indicate involvement of a problem outside the scope of PT practice are addressed. Enhances professional communication with other healthcare practitioners included in the referral process. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 721 - Clinical Reasoning I Laboratory

Credits: 1 | A continuation of PTH 711. Labs are designed to reinforce specific skills (evaluative or therapeutic) applicable to each lecture topic. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 711. | **Schedule Type:** Lab | **College Code:** SHP

PTH 722 - Clinical Reasoning II Laboratory

Credits: 1 | A continuation of PTH 721 Clinical Reasoning I Laboratory. | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PTH 712. | **Prerequisite(s):** PTH 721. | **Schedule Type:** Lab | **College Code:** SHP

PTH 726 - Geriatrics

Credits: 2 | Study of the unique characteristics of the geriatric patient, especially the physiological, psychological and social aspects, related to special needs in the physical therapy assessment, plan of care, and intervention. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 728 - Christian Finance Seminar

Credits: 1 | This course emphasizes the principles of Christian stewardship in everyday life. It addresses stewardship not only as it relates to finances but also to other human resources such as time, and talent. It will also include the elements of personal and family budgeting and investing. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Seminar | **College Code:** SHP

PTH 730 - Medical Diagnostics

Credits: 2 | Addresses imaging, body chemistry values and data derived from musculoskeletal, neurologic, vascular, cardiac and pulmonary testing with the purpose of understanding the disease process. Application of knowledge will determine differential diagnoses. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 736 - Psychosocial Issues in Healthcare

Credits: 3 | An introduction to psychosocial responses to illness and disability, especially the interpersonal relationships between the therapist, the family and the patient. Common psychiatric disorders are discussed along with their clinical diagnosis, treatment regimes, projected outcomes and methods for handling these responses in clinical situations. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 740 - Advanced Topics in Clinical Research

Credits: 3 | This course continues to cover the topic introduced in PTH 630 in a more in depth fashion. The student will learn how to set up a research study as well as review the literature and analyze the validity of the information presented. An introduction to setting up outcome studies will also be covered. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Blended Learning | **College Code:** SHP

PTH 748 - Educational Techniques for Health Care Professionals

Credits: 1,2 | Examines and applies educational theory to skills utilized by the physical therapist in the classroom, community, and clinical facility. Topics include the educational role of the physical therapist, the taxonomies of learning, learning styles, multiple intelligence, and educational technology. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 750 - Professional Communication & Consulting

Credits: 2 | An introduction to the integration of the physical therapist as consultant. Discussion will include applying physical therapy consultation services to individuals, business, schools, government agencies and/or other organizations. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 760 - Applications in Clinical Research

Credits: 2 | Information presented on how to develop and present a publishable quality case study. It also includes the actual practice of doing an outcomes study in the clinical environment. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Schedule Type:** Interactive Online | **College Code:** SHP

PTH 765 - Ethical & Legal Issues in Healthcare

Credits: 1 | Contemporary ethical issues are explored, including the relationships among peers, superiors, subordinates, institutions, clients, and patients. Illustrations

include actual cases related to Christian biblical principles. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 768 - Professional Compendium

Credits: 1 | Summarization of previous or added learning experiences relative to contemporary issues in physical therapy. An overview of the new graduate's role and responsibility to his/her patients and their families, employer, and community in the expanding physical therapy profession. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PTH 770 - Practical Comprehensive Examination

Credits: 0 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 788 - Research Project Continuation

Credits: 0 | Students register for this continuation course while completing their capstone project and not enrolled in other program courses. Registration for this course indicates full-time status which includes library privileges and access to an advisor. Requires advisor approval. | \$ - Course or lab fee | **Course Attribute:** Full-time status | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 798 - Capstone Experience

Credits: 1 | Serves as an essential outcome component to augment the professional development and new learning that occurs in didactic course work of the post-professional doctoral degree and demonstrates the ability of the DPT/DScPT to make significant contributions to the profession and/or serve as a change agent in the field of physical therapy. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 799 - Research Project (topic)

Credits: 1,2 | Provides students with guidelines and supervision for data collection, analysis, capstone project preparation and oral presentation. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable up to 3 credits | **Schedule Type:** Independent | **College Code:** SHP

PTH 870 - Written Comprehensive Examination

Credits: 0 | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

PTH 880 - PT Seminar

Credits: 1 | Preparation of a personal portfolio, assessment of the clinical experiences and preparation for professional licensure. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Seminar | **College Code:** SHP

PTH 881 - Clinical Internship I

Credits: 4 | Advanced full-time clinical experience (8–10 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

PTH 882 - Clinical Internship II

Credits: 4 | Advanced full-time clinical experience (8–10 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

PTH 883 - Clinical Internship III

Credits: 5 | Advanced full-time clinical experience (8–10 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

PTH 884 - Clinical Internship IV

Credits: 5 | Advanced full-time clinical experience (810 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. | **Course Attribute:** Full-time status | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Practicum | **College Code:** SHP

Physical Therapy

PHTH 120 - Introduction to Physical Therapy

Credits: 2 | An introduction to the profession of physical therapy with an overview of duties and responsibilities physical therapists perform. Partially fulfills the clinical observation prerequisites for admission to the professional program. Students must have their own transportation for the clinical observation. | \$ - Course or lab fee |
Grade Mode: Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

PHTH 417 - Human Anatomy

Credits: 3 | Comprehensive study of human anatomy covering all systems of head, neck, trunk, and extremities. A solid morphological basis for a synthesis of anatomy, physiology, and clinical sciences provided. Dissection and identification of structures in the cadaver, and the study of charts, models, and prosected materials. | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PHTH 427. | **Prerequisite(s):** BIOL 221, BIOL 222 or BIOL 165, BIOL 166 or equivalent. See instructor for additional requirements. | **Schedule Type:** Lecture | **College Code:** SHP

PHTH 427 - Human Anatomy Laboratory

Credits: 1 | Study of the prosected extremity, head and neck anatomy, and dissection of the abdominal and thoracic organ systems. | \$ - Course or lab fee | Swing course | **Grade Mode:** Normal (A-F,I,W) | **Corequisite(s):** PHTH 417. | **Prerequisite(s):** same as for PHTH 417. | **Schedule Type:** Lab | **College Code:** SHP

PHTH 480 - Physical Therapy Clinical Experience

Credits: 0 | A course which provides hands-on, patient contact experiences in a variety of settings. The clinical experiences are coordinated to correspond to the requirements of the physical therapy program. As a facilitator, the clinical instructor will assist in developing the student's clinical thinking skills. The student is expected to become independent with the evaluation and treatment of noncomplex patients within that practice setting. | Swing course | **Grade Mode:** Satisfactory (S,U,I,W) | **Repeatable:** Repeatable up to 5 credits | **Schedule Type:** Practicum | **College Code:** SHP

Speech-Language Pathology & Audiology

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Brynja K. Davis MS, CCC-SLP
Joyce Richardson, PhD CCC-SLP
Lara Scheidler-Smith, MA CCC-SLP

Mission

The Andrews University Department of Speech-Language Pathology and Audiology (SPLAD) provides faith-affirming Christian education. The sequence of experiences focuses on the knowledge and practices for a career in the discipline. Students will:

- Become knowledgeable about human communication and potential disorders
- Uphold the ethical and Christian principles regardless of age, gender or ethnicity
- Be prepared to provide high quality, effective clinical service.

Download SPLAD application

Bachelors

Speech-Language Pathology and Audiology BS

This degree can be completed in four years of undergraduate study. The first two years are spent earning Andrews Core Experience credits and completing prerequisite courses in the major area. The major consists of 46 credits in core and elective courses, and may be completed in the third and fourth years of study. 124 credits are needed for graduation from Andrews University. Remaining credits may be earned in a minor area of study or elective courses. **The GPA requirement is 3.0 overall and 3.0 in the major courses with an SPPA acronym. A grade lower than a C in major courses or cognates will not count toward either requirement.**

Core Requirements - 46 Credits

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 332 - Audiological Procedures Credits: 3
- SPPA 340 - Neuroscience of Communication Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3
- SPPA 425 - Clinical Principles and Practices Credits: 3
- SPPA 448 - Disorders of Voice, Fluency and Swallowing Credits: 3
- SPPA 458 - Aural Rehabilitation Credits: 3
- SPPA 482 - Clinical Application in Audiology Credits: 2,3
- SPPA 481 - Clinical Application in Speech-Language Pathology Credits: 2,3

Cognates - 14 Credits

- PHYS 225 - Sound and Waves Credits: 4 (Meets the Andrews Core: Life/Physical Science requirement)
- STAT 285 - Elementary Statistics Credits: 3
- PSYC 301 - Human Development Credits: 3
- BIOL 100 - Human Biology Credits: 4 (or any BIOL course with a lab)

Recommended Courses (Electives) - 9 Credits

- SPPA 498 - Research Project in Speech-Language Pathology and Audiology Credits: 1
- ENGL 460 - Linguistics Credits: 3
- BHSC 230 - Research Methods I: Statistics for the Behavioral Sciences Credits: 3
- BIOL 208 - Environmental Science Credits: 4
- BIOL 221 - Anatomy and Physiology I Credits: 4
- PSYC 101 - Introduction to Psychology Credits: 3 (Required for Human Development)

Andrews Core Experience - 55 Credits

See the Professional Program Requirements, and note the following **specific** requirements:

Religion:

- Equivalent of one course per year of full-time enrollment at AU. Required course:
- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3

Mathematics:

- STAT 285 - Elementary Statistics Credits: 3

Total Credits: 124

Speech-Language Pathology BS/MS - 5 Year Track

Program Description

This track allows eligible students to obtain a Bachelor of Science in Speech-Language Pathology and Audiology and a Master of Science degree in Speech-Language Pathology in 5 years. Students must begin this track fall semester of the undergraduate freshmen year at Andrews University.

Admission Requirements

Students eligible to begin as the 5 year track student must meet the following criteria:

- High School GPA of 3.5 or higher upon admission to the undergraduate program.
- Math placement score of P3 (ACT of 22-23 / SAT of 510 - 530).
- Students in this program must maintain a 3.3 GPA overall and 3.5 in core courses, those with SPPA Acronym, during the first three undergraduate years.
- Students will begin the program as a BHS student and must apply to the BS program during their sophomore year.
- At the end of the 4th year (senior year) students will graduate with a BS in Speech-Language Pathology and Audiology.
- Students must complete an application process to the MS program during their senior undergraduate year.
- During the Senior year students will complete the initial courses toward the MS degree.

SPLAD Major: Core Requirements - 46

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 332 - Audiological Procedures Credits: 3
- SPPA 340 - Neuroscience of Communication Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3
- SPPA 425 - Clinical Principles and Practices Credits: 3

- SPPA 448 - Disorders of Voice, Fluency and Swallowing Credits: 3
- SPPA 458 - Aural Rehabilitation Credits: 3
- SPPA 482 - Clinical Application in Audiology Credits: 2,3
- SPPA 481 - Clinical Application in Speech-Language Pathology Credits: 2,3

Cognates - 14 Credits

- PHYS 225 - Sound and Waves Credits: 4
- STAT 285 - Elementary Statistics Credits: 3 (Fullfills General Education math requirement)
- PSYC 301 - Human Development Credits: 3
- BIOL 100 - Human Biology Credits: 4
- or any BIOL with a lab

MS Courses

- SPPA 500 - Orientation for MS in Speech-Language Pathology Credits: 0
- SPPA 502 - Child Language Disorders: Preschool Credits: 3
- SPPA 503 - Child Language Disorders: School Age Credits: 3
- SPPA 510 - Counseling for Speech-Language Pathology (Standard Option) Credits: 2
- SPPA 515 - Aphasia Credits: 3
- SPPA 520 - Diagnostics in Speech-Language Pathology Credits: 2
- SPPA 521 - Practicum I: Onsite Credits: 1
- SPPA 522 - Practicum II: Onsite Credits: 3
- SPPA 536 - Thesis Option I Credits: 2
- SPPA 544 - Articulation and Phonological Disorders Credits: 3
- SPPA 550 - Praxis Preparatory Class Credits: 1
- SPPA 551 - Educational Audiology Credits: 2
- SPPA 574 - Research Methods in Speech-Language Pathology Credits: 3
- SPPA 583 - Voice and Velopharyngeal Disorders Credits: 3
- SPPA 596 - Neurocognitive Disorders Credits: 3
- SPPA 608 - Practicum III: Onsite Credits: 3
- SPPA 613 - Dysphagia Credits: 3
- SPPA 624 - Practicum IV: Onsite Credits: 3
- SPPA 631 - Motor Speech Disorders Credits: 3
- SPPA 636 - Thesis Option II Credits: 1
- SPPA 637 - Thesis Option III Credits: 1
- SPPA 647 - Fluency Credits: 3
- SPPA 663 - Augmentative and Alternative Communication Credits: 2
- SPPA 670 - Comprehensive Examination Credits: 0
- SPPA 682 - Practicum V: School Credits: 4
- SPPA 683 - Practicum VI: Hospital Credits: 4

Admission Requirements

- Placement sites for Practicum may require vaccine records, drug screening, and fingerprinting separate from the program requirements, the cost of this is the student's responsibility.
- The applicant for certification in speech-language pathology must complete a minimum of 400 clock hours of supervised clinical experience in the practice of speech-language pathology. Twenty-five hours must be spent in clinical observation, and 375 hours must be spent in direct client/patient contact. The clinical observation must be completed prior to beginning any practicum experiences. At least 325 of the 400 clock hours must be completed while the applicant is engaged in graduate study in a program in a program accredited in speech-language pathology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. Clinical clock hours will be tracked by the student, advisor and administrative assistant to insure that the student has had a diverse clinical experience and for accuracy.
- Please note the following specific requirement:
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2 - 3 (3 credits required for MS-SLP degree)

Wellness, Speech-Language Pathology and Audiology Emphasis BHS

Bachelors of Health & Wellness: with an emphasis in Speech-Language Pathology encompasses communication disorders and nutrition. Students with this degree may be able to apply to graduate programs in Speech-Language Pathology or Audiology. At the end of the Sophomore year students who wish may apply to the B.S. in Speech-Language Pathology and Audiology program.

A grade lower than a C in major courses or cognates will not count toward either requirement.

Major Requirements

Core Requirements

- HLED 210 - Philosophy of Health Credits: 3
- HLED 445 - Consumer Health Credits: 2
- FDNT 230 - Nutrition Credits: 3
- FDNT 448 - Nutrition and Wellness Credits: 3
- FDNT 460 - Seminar Credits: 1,2
- FTES 205 - Fitness Conditioning Credits: 1

Speech-Language Pathology and Audiology Emphasis

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3

Choose one of the following courses:

- SPPA 332 - Audiological Procedures Credits: 3
- SPPA 425 - Clinical Principles and Practices Credits: 3

Cognates

Choose two of the following courses:

- BIOL 260 - General Microbiology Credits: 4
- MLSC 230 - Fundamentals of Clinical Microbiology Credits: 3
- PHYS 141 - General Physics I Credits: 4
- PHYS 225 - Sound and Waves Credits: 4
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4

Choose one of the following courses:

- BIOL 100 - Human Biology Credits: 4
- BIOL 221 - Anatomy and Physiology I Credits: 4

Andrews Core Experience

Students must fulfill the Andrews Core Experience: Professional Degrees, and note the following specific requirements.

- COMM 104 - Communication Skills Credits: 3
- ENGL 115 - College Writing I Credits: 3
- ENGL 215 - College Writing II Credits: 3
- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3 (Fulfills one religion course requirement)
- HLED 120 - Fit for Life Credits: 1

Choose one:

- HIST 117 - Civilizations and Ideas I Credits: 3
- HIST 118 - Civilizations and Ideas II Credits: 3

Choose one:

- MATH 145 - Reasoning with Functions Credits: 3
- STAT 285 - Elementary Statistics Credits: 3
(Required for BS degree in Speech-Language Pathology and Audiology)

Choose one or similar PYSC course

- PSYC 101 - Introduction to Psychology Credits: 3
Prerequisite of Human Development, which is required for BS in SPLAD
- PSYC 301 - Human Development Credits: 3
- One religion course per academic year of attendance in a Seventh-day Adventist college or university.

Total Credits: 60

Bachelors Dual Degrees

Speech-Language Pathology and Audiology/Spanish Studies BS/BA

No grade lower than a C will count toward the major or cognates.

Program Description

This program integrates the study of the Spanish language and culture with preparation in the field of Speech-Language Pathology and Audiology. The main goal of this degree is to prepare students to serve in both a medical as well as in an educational setting. Students will participate in clinical practicum/internships in which they will have the opportunity to apply the knowledge acquired in classes. Students are required to attend one of the ACA programs for a full year and should work closely with their AU Spanish advisor prior to studying abroad.

Students who pursue the BA/BS Joint Degree need to complete General Education requirements for BA/BS Degrees and Professional Degrees, and upon completion receive 2 diplomas; BS in Speech-Language Pathology and Audiology, and BA in Spanish Studies.

Total Credits - 140

SPLAD Major: Core Requirements - 46

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 332 - Audiological Procedures Credits: 3
- SPPA 340 - Neuroscience of Communication Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3
- SPPA 425 - Clinical Principles and Practices Credits: 3
- SPPA 448 - Disorders of Voice, Fluency and Swallowing Credits: 3
- SPPA 458 - Aural Rehabilitation Credits: 3
- SPPA 482 - Clinical Application in Audiology Credits: 2,3
- SPPA 481 - Clinical Application in Speech-Language Pathology Credits: 2,3

Cognates - 14 Credits

- PHYS 225 - Sound and Waves Credits: 4
- STAT 285 - Elementary Statistics Credits: 3 (Fullfills General Education math requirement)
- PSYC 301 - Human Development Credits: 3
- BIOL 100 - Human Biology Credits: 4
- or any BIOL with a lab

Spanish Major: Core Requirements - 42

ACA Requirements - 18

Choose one course from each of the following sets:

- SPAN 351, 352, 353
- SPAN 361, 362, 363
- SPAN 371, 372, 373
- Plus 9 Spanish credits at the 300-400 level

AU Cognates - 6

Choose one of the following sets:

- SPAN 171 - Elementary Spanish I Credits: 3
- SPAN 172 - Elementary Spanish II Credits: 3
- SPAN 275 - Intermediate Spanish Credits: 4

AU Requirements - 18

- SPAN 325 - Spanish for the Medical Professions Credits: 3
- SPAN 420 - Advanced Spanish Written and Oral Communication Credits: 3
- SPAN 426 - Contemporary Spain Credits: 3
- SPAN 436 - Spanish-American Culture Credits: 3
- SPAN 447 - Spanish for Translation Credits: 3
- SPAN 449 - Spanish for Interpreters Credits: 3
- SPAN 456 - Spanish for Speech Pathologists and Audiologists Credits: 3

Andrews Core Experience

For the BS/BA dual degree follow the Andrews Core Experience: BA & BS Degrees and the Professional Degree Requirements

and note the following specific requirements for the Professional Degree:

Religion - 12

Equivalent of one course per year of full-time enrollment at AU. Required course:

- PBHL 440 - Fundamentals of Spirituality & Ethics in Healthcare Credits: 3

Undergraduate Minors

Speech-Language Pathology and Audiology Minor

Students in education, communication, and behavioral science find a speech-language pathology and audiology minor helpful for increasing their awareness and understanding of people with speech, language, and hearing impairments. The minor also gives students with another major the necessary background to pursue graduate studies in speech-language pathology or audiology.

Degree Requirements

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3

Total Credits: 23

Masters

Speech-Language Pathology

BS/MS - 5 Year Track

This track allows eligible students to obtain a Bachelor of Science in Speech-Language Pathology and Audiology and a Master of Science degree in Speech-Language Pathology in 5 years. Follow the link to learn more.

Speech-Language Pathology BS/MS - 5 Year Track

Speech-Language Pathology, MS

Andrews University's Master of Speech-Language Pathology is designed to provide the student with in-depth academic study, the potential for research and extensive clinical experiences in preparation for careers in the diagnosis, evaluation and management of individuals with speech and language disorders. The Master's degree program has achieved candidacy status from the American Speech-Language-Hearing Association's (ASHA) Council on Academic Accreditation in Audiology and Speech-Language Pathology.

No grade lower than a C will count toward the major or cognates.

Continued Enrollment Requirements

- All students admitted to the Master's program must maintain a 3.0 grade point average.
- Student will be permitted to earn one "C" while in the program. If a second "C" is earned or the student's grade point average fall below a 3.0, the student will be placed on a remediation plan. If a second "C" is earned, the student will be required to retake the course.
- Students must meet all essential functions of the Department of Speech-Language Pathology.
- Students are required to meet with their advisor at least once per semester to discuss course plan and program progress.
- Students will meet all academic and clinical requirements for certification with the American Speech and Hearing Association.
- Students who elect to write a thesis must be in good academic and clinical standing prior to securing approval for the thesis topic and before the oral examination.

Core Requirements

- SPPA 500 - Orientation for MS in Speech-Language Pathology Credits: 0
- SPPA 502 - Child Language Disorders: Preschool Credits: 3
- SPPA 503 - Child Language Disorders: School Age Credits: 3
- SPPA 515 - Aphasia Credits: 3
- SPPA 520 - Diagnostics in Speech-Language Pathology Credits: 2
- SPPA 521 - Practicum I: Onsite Credits: 1
- SPPA 522 - Practicum II: Onsite Credits: 3
- SPPA 544 - Articulation and Phonological Disorders Credits: 3
- SPPA 574 - Research Methods in Speech-Language Pathology Credits: 3
- SPPA 583 - Voice and Velopharyngeal Disorders Credits: 3
- SPPA 596 - Neurocognitive Disorders Credits: 3
- SPPA 608 - Practicum III: Onsite Credits: 3
- SPPA 613 - Dysphagia Credits: 3
- SPPA 624 - Practicum IV: Onsite Credits: 3
- SPPA 631 - Motor Speech Disorders Credits: 3
- SPPA 647 - Fluency Credits: 3
- SPPA 663 - Augmentative and Alternative Communication Credits: 2
- SPPA 670 - Comprehensive Examination Credits: 0
- SPPA 682 - Practicum V: School Credits: 4

Program Options

Each graduate student may choose the Standard Option or Thesis Option to complete their degree.

Thesis Option

Students who elect to write a thesis must be in good academic and clinical standing prior to securing approval for the thesis topic and before the oral examination.

- SPPA 536 - Thesis Option I Credits: 2
- SPPA 636 - Thesis Option II Credits: 1
- SPPA 637 - Thesis Option III Credits: 1

Standard Option

- SPPA 510 - Counseling for Speech-Language Pathology (Standard Option) Credits: 2
- SPPA 551 - Educational Audiology Credits: 2

Additional Requirements

- Placement sites for Practicum may require vaccine records, drug screening, and fingerprinting separate from the program requirements, the cost of this is the students responsibility.
- The applicant for certification in speech-language pathology must complete a minimum of 400 clock hours of supervised clinical experience in the practice of speech-language pathology. Twenty-five hours must be spent in clinical observation, and 375 hours must be spent in direct client/patient contact. The clinical observation must be completed prior to beginning any practicum experiences. At least 325 of the 400 clock hours must be completed while the applicant is engaged in graduate study in a program accredited in speech-language pathology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. Clinical clock hours will be tracked by the student, advisor and administrative assistant to insure that the student has had a diverse clinical experience and for accuracy.
- Please note the following **specific** requirement:
- PBHL 646 - Integration of Spirituality in Health Care Credits: 2-3
(3 credits required for MS-SLP degree)

Certification

The applicant for certification in speech-language pathology must complete a minimum of 400 clock hours of supervised clinical experience in the practice of speech-language pathology. Twenty-five (25) hours must be spent in clinical observation, and 375 hours must be spent in direct client/patient contact. The clinical observation must be completed prior to beginning any practicum experiences.

At least 325 of the 400 clock hours must be completed while the applicant is engaged in graduate study in a program accredited in speech-language pathology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. Clinical clock hours will be tracked by the student, advisor, and administrative assistant to insure that the student has had a diverse clinical experience and for accuracy. This program prepares the student for certification.

Graduation Requirements

CHECKLIST FOR ATTAINING THE MASTER'S DEGREE

This checklist will help students as they work toward completion of their degree. This checklist does not replace the necessary consultation with academic advisors:

- Complete prerequisite undergraduate course deficiencies. In the first conference with the academic advisor during the professional phase of the program, the student should identify such deficiencies and create a plan to remediate them.
- Secure regular admission to the BA-MA program.
- Successfully complete all Standard for Certification associated with the clinical and academic training program.
- Complete 400 clock hours of clinical practice with at least 325 hours at the graduate level and 50 clock hours in each of the three types of clinical settings.
- Meet all requirements for Certificate of Clinical Competence.
- Submit Application of graduation at the beginning of the second to last semester of study.
- Complete and pass comprehensive examination.
- With departmental permission student may be able to take the Praxis II exam.
- If thesis option is chosen student must defend and submit thesis for final approval and binding at least 15 days prior to graduation.

Resources

Student Handbook

Please visit the Department of Speech-Language Pathology and Audiology website for the most up-to-date version of the department's Graduate Student Handbook.

CONCERNS REGARDING ACCREDITATION BY THE COUNCIL ON ACADEMIC ACCREDITATION (CAA)

Students concerns regarding the Master's program may relate to accreditation standards of the Council on Academic Accreditation (CAA). This accreditation is an assurance that the program is abiding by all required standards for academic content and following approved procedures in the delivery of this content. In the event of a serious concern, students may contact the CAA directly for information. According to the CAA, complaints about programs must:

- Be against an accredited education program or program in candidacy status in speech-language pathology and/or audiology;
- Relate to the standards for accreditation of education programs in audiology and speech-language pathology;
- Include verification, if the complaint is from a student or faculty/instructional staff member, that the complaint exhausted all institutional grievance and review mechanisms before submitting a complaint to the CAA.

2200 Research Boulevard
Rockville, MD 20850
Phone: 800-498-2071 or 301-296-5700
E-mail: accreditation@asha.org

Total Credits: 60

Transitional 3 Years MS Program

Program Description

This program is designed for students who wish to obtain a master's degree in speech-language pathology, but hold a bachelor's degree in another major area.

Program Requirements

Students will complete one year of undergraduate pre-requisite coursework in speech-language pathology. Students must maintain a 3.5 GPA during the prerequisite course completion (with no grade below a B). Prerequisites must be complete within one academic year. After successful completion, students will enter the Master's degree program. The minimum GPA requirement for the MS program is 3.0. Students may be required to complete additional courses in order to meet the standards for certification by the American Speech and Hearing Association.

Pre-requisite Courses for Transitional Track

The following courses must be completed during the prerequisite year.

- SPPA 234 - Introduction to Speech-Language Pathology and Audiology Credits: 3
- SPPA 270 - Preclinical Observation Credits: 1
- SPPA 280 - Anatomy and Physiology of Speech and Hearing Credits: 4
- SPPA 285 - Applied Phonetics Credits: 3
- SPPA 310 - Speech Science Credits: 3
- SPPA 321 - Normal Language Development Credits: 3
- SPPA 322 - Child Language Disorders Credits: 3
- SPPA 331 - Basic Audiology Credits: 3
- SPPA 340 - Neuroscience of Communication Credits: 3
- SPPA 374 - Articulation and Phonology: Development and Disorders Credits: 3
- SPPA 448 - Disorders of Voice, Fluency and Swallowing Credits: 3
- OR if needed, one of the following: STAT285 Elementary Statistics, a Physics or Chemistry course, a Behavioral Science course.

MS Courses

Graduate Courses to be completed:

- SPPA 502 - Child Language Disorders: Preschool Credits: 3
- SPPA 503 - Child Language Disorders: School Age Credits: 3
- SPPA 510 - Counseling for Speech-Language Pathology (Standard Option) Credits: 2
- SPPA 515 - Aphasia Credits: 3
- SPPA 520 - Diagnostics in Speech-Language Pathology Credits: 2
- SPPA 521 - Practicum I: Onsite Credits: 1

- SPPA 522 - Practicum II: Onsite Credits: 3
- SPPA 536 - Thesis Option I Credits: 2
- SPPA 544 - Articulation and Phonological Disorders Credits: 3
- SPPA 550 - Praxis Preparatory Class Credits: 1
- SPPA 551 - Educational Audiology Credits: 2
(Standard Option)
- SPPA 636 - Thesis Option II Credits: 1
- SPPA 637 - Thesis Option III Credits: 1
- SPPA 647 - Fluency Credits: 3
- SPPA 663 - Augmentative and Alternative Communication Credits: 2
- SPPA 682 - Practicum V: School Credits: 4
- SPPA 683 - Practicum VI: Hospital Credits: 4

Speech-Language Pathology & Audiology

SPPA 091 - Speech Support

Credits: 1 | Andrews University students may register for speech and language evaluation and services. The evaluation and services will be provided by clinical supervisors and student clinicians to address diagnosed speech and language disabilities.

Credits are not applicable to degree completion. | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 92 - Auditory Support

Credits: 1 | Andrews University students may register for audiological evaluation and/or intervention. The evaluation and intervention will be provided by clinical supervisors and student clinicians to completion of audiological assessments.

Credits are not applicable to degree completion. | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 234 - Introduction to Speech-Language Pathology and Audiology

Credits: 3 | An introduction to the professions of speech-language pathology and audiology, this course surveys the possible etiologies and characteristics of various communication problems encountered by clinicians. Language and communication differences in a multicultural society are also examined. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 250 - Fieldwork

Credits: 2 | Students participate in experiences in the community related to the professions of speech-language pathology and audiology. Open to majors who have applied one semester in advance. Meets the general education fieldwork requirement. Does not apply to major or minor. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 270 - Preclinical Observation

Credits: 1 | Students observe and write reports on a total of 25 hours of therapy and/or diagnostic sessions in the areas of speech-language pathology and audiology. They also participate in discussions of procedures used by the professionals during therapeutic interventions. | **Grade Mode:** Satisfactory w/DG (S,U,I,W,DG) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 280 - Anatomy and Physiology of Speech and Hearing

Credits: 4 | The study of the anatomy and physiology of respiration, hearing, phonation, articulation, and the central nervous system. Students participate in a gross-anatomy human cadaver lab. | Weekly: 3 lectures and a 2-hour lab | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture/Lab | **College Code:** SHP

SPPA 285 - Applied Phonetics

Credits: 3 | A study of the International Phonetic Alphabet and its application to speech and hearing sciences. Includes an introduction to acoustic theory and spectrographic analysis of speech. Skill is developed in transcription of both normal

and disordered speech in children and adults. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 310 - Speech Science

Credits: 3 | An exploration of the theoretical information regarding speech perception and hearing, using concepts of physics, anatomy, and physiology. Clinical applications and management strategies for specific speech and hearing disorders will also be addressed. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA280, SPPA285 or departmental permission | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 321 - Normal Language Development

Credits: 3 | A comprehensive look at the normal development of speech and language in the child; includes the areas of language prerequisite skills, phonology, morphology, semantics, syntax and pragmatics. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite/Corequisite:** SPPA234 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 322 - Child Language Disorders

Credits: 3 | A study of the factors contributing to the development of disordered speech and language. Includes traditional and more recent classification systems and a survey of characteristic disorders. Introduction to methods of evaluation and therapy. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA321 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 331 - Basic Audiology

Credits: 3 | Survey of the normal auditory system and the pathologies that affect its functioning. Includes the physics of sound, standard reference levels, and auditory perception. Methods of administering and interpreting pure tone, speech threshold, and speech recognition tests are presented in classroom and lab settings. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite/Corequisite:** SPPA234 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 332 - Audiological Procedures

Credits: 3 | Continued study of auditory testing with an overview of differential diagnostic tests in the identification of auditory pathologies. Includes clinical masking and acoustic immittance measures. Techniques are presented for evaluating special populations including infants and young children, industrial, and the pseudo-hypacusic. | \$ - Course or lab fee | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA331 | **Prerequisite/Corequisite:** SPPA280 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 340 - Neuroscience of Communication

Credits: 3 | An overview of the anatomy and physiology of the central nervous system, particularly the components that control communicative functions. Discussion of the brain's role in human communication will prepare students for advanced study of neurogenic speech and language disorders in children and adults. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA234, SPPA280 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 374 - Articulation and Phonology: Development and Disorders

Credits: 3 | A survey of phonological development, and characteristics of articulation and phonology disorders. Discussion of etiologies, assessment, and management of these disorders is included. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA285 | **Prerequisite/Corequisite:** SPPA234 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 415 - Seminar in Communication Disorders:_____

Credits: 3 | Advanced study into professional and/or clinical aspects of speech-language pathology and/or audiology. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable with different topics | **Schedule Type:** Seminar | **College Code:** SHP

SPPA 425 - Clinical Principles and Practices

Credits: 3 | Discussion of principles underlying clinician/client relationships and interventions for communication disorders. Instruction in clinical management for speech-language pathology, including developing instructional programs, obtaining target behaviors, record keeping, and report writing. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA322 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 435 - Communication Development and Disorders for Classroom Teachers

Credits: 3 | An overview of normal language acquisition and development, including a survey of typical communication disorders and their impact on students' academic success. Issues such as public laws and policies affecting the communicatively handicapped, language and communication differences in multicultural populations, and collaborative management models are also addressed. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 447 - Disorders of Voice and Fluency

Credits: 3 | A study of the anatomy and physiology of the vocal mechanism; with emphasis on normal and abnormal processes of voice and fluency. Assessment and treatment principles of functional, organic and neurological voice pathologies will be addressed, as well as basic principles of stuttering diagnosis and therapy. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA 234, SPPA 280, SPPA 310. | **Schedule Type:** Lecture/Lab | **College Code:** SHP

SPPA 448 - Disorders of Voice, Fluency and Swallowing

Credits: 3 | A Study of the anatomy and physiology associated with the vocal mechanism and swallowing function, with emphasis on normal and abnormal processes of voice, fluency and swallowing. An overview of assessment and treatment principles of functional, organic and neurological voice pathologies, and dysphagia will be addressed, as well as basic principles of stuttering diagnosis and therapy. **Prerequisites:** SPPA234, 280, **Corequisite:** SPPA310 | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite/Corequisite:** SPPA310 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 455 - Adult Neurogenic Disorders

Credits: 3 | A study of neuroanatomy, as well as the interaction of language and cognition, and hemispheric specialization. This course also covers the classification, etiology, and assessment of individuals with speech, cognitive-linguistic, and swallowing disorders associated with central nervous system damage. Therapeutic principles are introduced. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA 234, SPPA 280, SPPA 321. | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 458 - Aural Rehabilitation

Credits: 3 | A conceptual approach to the rehabilitation of the hearing-impaired. Methods of management which optimize the use of residual hearing with amplification or other assistive devices are considered for patients from birth to geriatric. | **Grade Mode:** Normal (A-F,I,W) | **Prerequisite(s):** SPPA332 | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 471 - Clinical Practicum in Speech-Language Pathology

Credits: 2 | Supervised practice in clinical management of persons with communication disorders, including administration of tests and implementation of therapy programs. A content course in practicum area; 25 hours of observation in speech-language pathology and audiology. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** SPPA332, SPPA374 | **Prerequisite/Corequisite:** SPPA425 | **Repeatable:** Repeatable | **Schedule Type:** Practicum | **Special Approval:** Instructor permission required. | **College Code:** SHP

SPPA 472 - Clinical Practicum in Audiology

Credits: 2 | Supervised practice in test administration, report writing, and clinical management of persons with communication disorders related to audiology. | \$ - Course or lab fee | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Prerequisite(s):** SPPA332 | **Prerequisite/Corequisite:** SPPA 458. | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 478 - Study Tour:

Credits: 0 | Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required. | \$ - Course or lab fee | **Grade Mode:** Noncredit (NC,W) | **Repeatable:** Repeatable | **Schedule Type:** Blended Learning | **College Code:** SHP

SPPA 480 - Topics in _____

Credits: 1,2 | Selected topics in audiology and speech-language pathology. Consult current class schedule for topics offered each year. | **Grade Mode:** Normal (A-F,I,W) | **Repeatable:** Repeatable with different topics | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 481 - Clinical Application in Speech-Language Pathology

Credits: 2,3 | Students will apply practical clinical skills of previously studied theories in the assessment, intervention, and documentation of speech-language pathology. Students will conduct direct and simulated patient evaluation and intervention. Direct patient contact hours will be obtained in this course and can be applied toward ASHA certification. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Corequisite(s):** SPPA425 | **Prerequisite(s):** SPPA332, SPPA374 | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 482 - Clinical Application in Audiology

Credits: 2,3 | Students will apply practical clinical skills of previously studied theories in the assessment, intervention, and documentation of audiology. Students will conduct direct and simulated patient evaluation and intervention. Direct patient contact hours will be obtained in this course and can be applied toward ASHA certification. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Corequisite(s):** SPPA458 | **Prerequisite(s):** SPPA332 | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 495 - Independent Research/Project

Credits: 1 | Arranged on a contract basis with a faculty member. | **Grade Mode:** Normal w S/DG (A-F,I,S,U,DG,W) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

SPPA 498 – Research Project in Speech–Language Pathology and Audiology

Credits: 1 | An independent research project in speech–language pathology and audiology, typically supervised by a faculty member and resulting in a technical report summarizing findings or a submission to a professional conference. Students may repeat or take any combination of departmental independent study or research project courses up to 6 credits with no more than 3 credits per semester. Consult staff before registering. | **Grade Mode:** Normal with DG (A-F,I,W,DG,DN) | **Repeatable:** Repeatable | **Schedule Type:** Independent | **College Code:** SHP

SPPA 500 – Orientation for MS in Speech–Language Pathology

Credits: 0 | Survey of essential principle and practices underlying the Curriculum and Instruction of MS Program in Speech–Language Pathology. Mandatory for all incoming MS students. | \$ - Course or lab fee (\$100) | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 502 – Child Language Disorders: Preschool

Credits: 3 | Anatomical, physiological, psychological, neurological, and environmental factors related to delayed or disordered language. An exploration of language skills and methods of promoting their development or compensation for inadequacies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 503 – Child Language Disorders: School Age

Credits: 3 | Anatomical, physiological, psychological, neurological, and environmental factors related to delayed or disordered language of the school aged child. An exploration of language skills and methods of promoting their development or compensation for inadequacies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 510 – Counseling for Speech–Language Pathology (Standard Option)

Credits: 2 | A course addressing the speech–language pathologist's role in counseling patients, students, family members and caregivers. Competencies in effective clinical diagnostics, treatment, information sharing and social/multicultural adjustments, as well as issues specific to swallowing, communication and cognitive disorders are specifically addressed. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 515 – Aphasia

Credits: 3 | Study of the neurologic basis for speech and language behavior, etiology, symptomatology, assessment, and management of aphasia. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 520 – Diagnostics in Speech–Language Pathology

Credits: 2 | Principles and practice involved in performing in-depth diagnostic evaluations with individuals exhibiting speech and/or language dysfunction. Students will gain experience in taking case histories, formulating an assessment battery, evaluating patients, writing the diagnostic reports and interpreting the data to parents and/or involved disciplines. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 521 – Practicum I: Onsite

Credits: 1 | Supervised practicum experience in evaluation and treatment of individuals exhibiting speech and/or language dysfunction. Students will gain experience in taking case histories, talking with patients, and writing reports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 522 – Practicum II: Onsite

Credits: 3 | Supervised practicum experience in evaluation and treatment of individuals exhibiting speech and/or language dysfunction. Students will gain experience in taking case histories, talking with patients, and writing reports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 536 – Thesis Option I

Credits: 2 | Research techniques and experimental design schemes, critical reviewing of current literature, oral technical reporting and writing technical supports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 544 – Articulation and Phonological Disorders

Credits: 3 | An advanced study of speech and sound production in children. Discussion will include normal aspects of articulation, phonology and development, identification of articulation disorders, phonological delays and disorders and childhood apraxia of

speech, as well as treatment approaches, theory and facilitative strategies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 550 – Praxis Preparatory Class

Credits: 1 | Preparatory course designed to establish readiness for the Praxis exam in the areas of audiology, basic human communication processes, clinical management, neurogenic disorders, phonological and language disorders, professional issues, and childhood apraxia of speech, as well as treatment approaches, theory and facilitative strategies. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 551 – Educational Audiology

Credits: 2 | Methods of intervention in communication disorders related to loss of hearing and auditory deprivation for school-aged children. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 574 – Research Methods in Speech–Language Pathology

Credits: 3 | Research techniques and experimental design schemes, critical reviewing of current literature, oral technical reporting and writing technical supports. The process used in integrating research principles into evidence-based practice. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 583 – Voice and Velopharyngeal Disorders

Credits: 3 | Theory, diagnosis and treatment underlying the articulation, resonance, and phonatory problems associated with voice, velopharyngeal disorders and craniofacial anomalies. Includes discussion of etiologies, technology, and multicultural issues affecting appropriate assessment, diagnosis, and treatment. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 596 – Neurocognitive Disorders

Credits: 3 | An exploration of neurocognitive deficits of speech and language, with emphasis in dementia, traumatic brain injury, and right hemisphere damage. Principles of neuroanatomy and physiology, language implications, executive functioning concerns, and multicultural impacts will be investigated. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 608 – Practicum III: Onsite

Credits: 3 | Supervised practicum experience in evaluation and treatment of individuals exhibiting speech and/or language dysfunction. Students will gain experience in taking case histories, talking with patients, and writing reports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 613 – Dysphagia

Credits: 3 | An exploration of the Speech–Language Pathologist's role in assessment, diagnosis and rehabilitation of various swallowing disorders in children and adults. Includes discussion of ethical and cultural issues, analysis of current literature, and clinical application. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 624 – Practicum IV: Onsite

Credits: 3 | Supervised practicum experience in evaluation and treatment of individuals exhibiting speech and/or language dysfunction. Students will gain experience in taking case histories, talking with patients, and writing reports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 631 – Motor Speech Disorders

Credits: 3 | A study of the nature, etiology, and clinical management of motor speech disorders, with primary emphasis on apraxia and the dysarthrias. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 636 – Thesis Option II

Credits: 1 | Research techniques and experimental design schemes, critical reviewing of current literature, oral technical reporting and writing technical supports. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 637 – Thesis Option III

Credits: 1 | The thesis option is intended to provide depth of study in a focused area of the field of Speech–Language pathology. Student will be required to compose a thesis dealing with a particular, relevant area of interest. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 647 – Fluency

Credits: 3 | An exploration of etiologies, methods of examination, diagnosis, treatment, and research of fluency disorders. The ethical, cultural and professional issues associated with fluency disorders are also addressed. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 663 – Augmentative and Alternative Communication

Credits: 2 | Principles of assessment and intervention for individuals requiring augmentative or alternative methods of communication. Discussion will include low and high technology aids and adaptations, symbol systems, vocabulary selection, and procuring funding. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Lecture | **College Code:** SHP

SPPA 670 – Comprehensive Examination

Credits: 0 | During the second to last or last semester of the program students will be required to take a comprehensive examination. Students may be given permission to take the Praxis II/ASHA exam in lieu of the comprehensive exam. | **Grade Mode:** Satisfactory (S,U,I,W) | **Schedule Type:** Independent | **College Code:** SHP

SPPA 682 – Practicum V: School

Credits: 4 | Supervised practicum experience in a school based setting, performance evaluation and treatment of children exhibiting speech and dysfunctions. Students will gain further experience in collecting case histories, conferring with patients, and report writing. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP

SPPA 683 – Practicum VI: Hospital

Credits: 4 | Supervised practicum experience in a hospital setting, performance evaluation and treatment of clients exhibiting speech, language, and swallowing dysfunctions. Students will gain further experience in collecting case histories, conferring with patients, and report writing. | **Grade Mode:** Normal (A-F,I,W) | **Schedule Type:** Practicum | **College Code:** SHP