

Associate of Applied Science Degree Science and Health Technologies

Multi-Skilled Health Technology (9325)

Lakeland's Multi-Skilled Health Technology degree program is designed to meet the ever changing needs of the healthcare delivery system by preparing students with cross-training in more than one healthcare skill. Students will learn to perform more than one function, often in more than one discipline within the allied health professions.

Students are required to select at least two specialization areas in addition to the general education and health technology core courses. Many of these specialization areas have national certification or state licensure. Students who complete these specialization requirements will be eligible to sit for the appropriate certification or licensure examinations.

Since there are many combinations of areas of specialization, students should contact the program director to discuss their career goal to plan for their curriculum.

Students must complete a minimum of 68 credits as follows:

1. 16 credits from general education core courses.
2. 17 credits from health technology core courses.
3. 35 credits from technical electives, including completion of at least two areas of specialization (up to 6 of these credits may be chosen from a list of related electives.)

Students who are not seeking the Associate of Applied Science Degree or students who already have a health technology degree but would like to obtain additional credentials in certain skills can enroll in individual certificate programs for each of the specialization areas.

Students must meet specific admission requirements for this program. Interested students should contact the director of admissions or the Counseling Office for details about applying for admission to the program.

Drug Testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a "C" grade or higher is required in all science and program-specific courses for graduation.

Certificates are also available.

Multi-Skilled Health Technology Core Courses

GENERAL EDUCATION COURSES:

ENGL 1110*	English Composition I (A)	3
OR		
ENGL 1111	English Composition I (B)	
ENGL 1120	English Composition II	3
ITIS 1000**	Introduction to Personal Computers	1
SPCH 1100	Effective Interpersonal Communications	3
	Choose course(s) from the Arts and Humanities Electives list.	3
	Choose course(s) from the Social and Behavioral Sciences Electives list.	3
Total:		16

HEALTH TECHNOLOGY COURSES:

BIOL 2210	Anatomy and Physiology I	4
BIOL 2220	Anatomy and Physiology II	4
HLTH 1100	Introduction to Healthcare	2
HLTH 1210	Medical Terminology	2
HLTH 1500	Ethics and Legal Issues for Health Professionals	2
HLTH 2100	Pathophysiology	3
Total:		17

*English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).

**Students may substitute ITIS 1005. This 3 credit hour course may be needed by students transferring to a four-year college. The additional credits can be applied towards the Related Electives list.

Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 1215, 1800, 2200, 2250; PHIL 1500, 2000

Social and Behavioral Sciences Electives: minimum 3 credits

(Students selecting the Medical Assisting area of specialization will use PSYC 1500 to meet this requirement.)

ANTH 1160; ECON 1150, 2500, 2600; GEOG 1500, 1600, 2500; HIST 1100, 1200, 2100, 2200, 2400; POLS 1300, 2500; PSYC 1500; SOCY 1150

Multi-Skilled Health Technology Areas of Specialization

Areas of specialization include:

- Coding
- Electrocardiography
- Emergency Medical Technology-Basic
- Emergency Medical Technology-Paramedic
- Health and Wellness
- Healthcare Access Associate
- Massage Therapy
- Medical Assisting
- Personal Trainer
- Phlebotomy

Certificates are also available for each of these areas of specialization. Refer to the Multi-Skilled Health Technology Certificates section for detailed requirements for each of the areas of specialization.

Multi-Skilled Health Technology Electives

TECHNICAL ELECTIVES:

NOTE: Some of the following courses require admission to a specific certificate/area of specialization.

EMTS 1010	Emergency Medical Technician-Basic	6
EMTS 2011	Paramedic Beginner	12
EMTS 2021	Paramedic Intermediate A	4
EMTS 2031	Paramedic Intermediate B	4
EMTS 2041	Paramedic Advanced	4
HIMT 1220	Coding and Classification Systems: HCPCS/CPT	3
HIMT 1230	Coding and Coding Classification Systems: ICD-9-CM	3
HIMT 2530	Reimbursement Methodologies	2
HIMT 2540	Advanced Coding	3
HLTH 1150	Introduction to Electronic Health Records	1
HLTH 1220	Advanced Medical Terminology	2
HLTH 1238	Structure, Function, Disease, and Therapeutics of the Human Body	4
HLTH 1240	Phlebotomy	3
HLTH 1260	Phlebotomy Clinical Practicum	2
HLTH 1265	Phlebotomy Seminar	1
HLTH 1300	Nutrition and Family Health	2
HLTH 1310	Nutrition and Diet Therapy	2
HLTH 1400	Customer Service in Healthcare	2
HLTH 1410	Healthcare Access Fundamentals	2
HLTH 1600	Basic Pharmacology	2
HLTH 1700	Basic Electrocardiography	2
HLTH 1800	Healthcare Access Associate Seminar	1
HLTH 1810	Healthcare Access Associate Internship	5
MDAS 1110	Introduction to Medical Assisting	3
MDAS 1150	Medical Office Insurance and Reimbursement	3
MDAS 1225	Clinical Medical Assisting	3
MDAS 1250	Medical Office Surgical Procedures	2
MDAS 1300	Physician Office Laboratory	3
MDAS 1700	Medical Assisting Practicum	3
MDAS 1800	Medical Assisting Seminar	1
MDLT 2151	Blood Collection Techniques	1
MSTH 1100	Massage Therapy I: Introduction to Massage Therapy	6
MSTH 1200	Massage Therapy II: Theory and Practice	6
MSTH 1300	Massage Therapy III: General Massage Clinical Lab	2
MSTH 1500	Business Practice in Massage Therapy	2
MSTH 1600	Specialized Clinical Experience	1
MSTH 1700	Massage Therapy Seminar	3
PEHR 1250	First Aid	2
PEHR 1500	Health and Wellness	1
PEHR 1600	Exercise Physiology I	2
PEHR 1650	Health Fitness	2
PEHR 1660	Diet and Weight Management Strategies for Sport and Fitness	2
PEHR 1670	Instructional Techniques: Strength and Cardio Fitness Training	2
PEHR 1750	Personal Health	3
PEHR 2500	Athletic Training	2
PEHR 2750	Personal Trainer Internship/Seminar	2

RELATED ELECTIVES: Students may choose up to 6 credits from this list.

BIOL 2700	Microbiology	4
CHEM 1050	Chemistry in the Everyday World	3
HMSV 1115	Introduction to Human Services	3
HMSV 2116	Social Welfare	3
ITIS 1005*	Computers and Information Processing	3
MATH 1650	College Algebra	4

*Students who substitute ITIS 1005 for the required course ITIS 1000 can apply the additional 2 credits towards the Related Electives.

Multi-Skilled Health Technology Certificates/ Areas of Specialization

- Coding
- Electrocardiography
- Emergency Medical Technology-Basic
- Emergency Medical Technology-Paramedic
- Health and Wellness
- Healthcare Access Associate
- Massage Therapy
- Medical Assisting
- Personal Trainer
- Phlebotomy

Each of these certificates can also be used as an area of specialization for the Multi-Skilled Health Technology degree program.

- Students must earn a "C" or higher in all prerequisite and technical courses required for the certificate to be eligible for that certificate.
- Students must complete a minimum of one half of the required certificate courses at Lakeland to be eligible for the certificate.

Coding Certificate/Area of Specialization (3261)

This certificate/area of specialization prepares students for classifying medical data from patient records in hospital and physician-based settings. Students in the coding certificate/area of specialization gain knowledge in medical terminology, disease processes, pharmacology, reimbursement methodologies, ICD-9-CM, and CPT coding systems.

Hospitals, physicians' offices and insurance companies employ individuals with knowledge and skill in the language and science of medicine and its coding system. These coding practitioners review patients' records and assign numeric codes for each diagnosis and procedure. Coded information is used to determine and secure appropriate reimbursement for healthcare services rendered.

After completion of the certificate, students may choose to continue their education and earn the A.A.S. in Health Information Management Technology. Coding certificate courses are applicable toward the A.A.S. degree.

First Semester:

ENGL 2201*	Introduction to Technical Writing	2
OR		
ENGL 1110	English Composition I (A)	3
OR		
ENGL 1111	English Composition I (B)	
HLTH 1210	Medical Terminology	2
ITIS 1000**	Introduction to Personal Computers	1
OR		
ITIS 1005	Computers and Information Processing	3

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Second Semester:

HLTH 1150	Introduction to Electronic Health Records	1
HLTH 1220	Advanced Medical Terminology	2
HLTH 1238***	Structure, Function, Disease, and Therapeutics of the Human Body	4
OR		
BIOL 2210	Anatomy and Physiology I	

Third Semester:

HIMT 1220	Coding and Classification Systems: HCPCS/CPT . . .	3
HIMT 1230	Coding and Coding Classification Systems: ICD-9-CM	3
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		6

Fourth Semester:

HIMT 2530	Reimbursement Methodologies	2
HIMT 2540	Advanced Coding	3
		<hr/>
		5

Certificate Total: 23-26

*Students planning on completing an associate degree should choose ENGL 1110 or ENGL 1111. This course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the certificate).

**Students planning on completing the Health Information Management Technology degree program should take ITIS 1005.

***Students planning on completing a health-related associate degree program should choose BIOL 2210.

Electrocardiography Certificate/ Area of Specialization (3251)

This certificate/area of specialization provides students with the basic knowledge and skills to perform an electrocardiogram (ECG). It also introduces basic cardiac arrhythmias and medications used to treat them. After completion of the program, students are eligible to take a national certification exam.

NOTE: Students completing the Medical Assisting Certificate/Area of Specialization will have also fulfilled the requirements for this certificate/area of specialization.

HLTH 1210	Medical Terminology	2
HLTH 1700	Basic Electrocardiography	2

Certificate Total: 4

Emergency Medical Technology-Basic Certificate/ Area of Specialization (3501)

After completing this certificate/area of specialization, students are eligible to take the National Registry Exam to become certified in the State of Ohio* as a basic emergency medical technician. This certificate/area of specialization also serves as a prerequisite for paramedic training.

NOTE: EMTS 1010 has a prerequisite of CPR-American Heart Association: Health Care Provider. Students must also be 18 years of age or older to enroll in the course.

EMTS 1010	Emergency Medical Technician-Basic	6
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Certificate Total: 6

(NOTE: EMTS 1050 Emergency Medical Technician-Refresher can be used to meet the requirements for renewal of certification as a Basic EMT.)

*Accredited by the Ohio Department of Public Safety, Accreditation No. 063347.

Emergency Medical Technology-Paramedic Certificate/Area of Specialization (3254)

Paramedic emergency medical technicians work under the direction of a physician to recognize, assess, and manage medical emergencies of acutely ill or injured patients in prehospital care settings. Their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics possess basic skills in opening up airways, restoring breathing, controlling bleeding, treating for shock, and administering oxygen. In addition, paramedics may administer drugs, interpret electrocardiograms, perform endotracheal intubation, and use other complex equipment.

Upon completion of this certificate/area of specialization, students are eligible to take the National Registry Certification exam to become certified in the State of Ohio as a paramedic.

Students must apply for admission to this certificate/area of specialization. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the program.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

Drug Testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a "C" grade or higher is required in all science and program-specific courses for graduation.

ADMISSION PROCEDURES

Students must meet specific admission requirements for this certificate program.

- Complete college application(s).
- EMTS 2011 has prerequisites that include current Ohio certification as an EMT.
- Current American Heart Association; Health Care Provider or American Red Cross; Professional Rescuer CPR card.
- Successful passing score on the required program pre-admission test.
- Meet with a counselor or director of admissions to review program prerequisites and requirements.

EMTS 2011	Paramedic Beginner	12
EMTS 2021	Paramedic Intermediate A	4
EMTS 2031	Paramedic Intermediate B	4
EMTS 2041	Paramedic Advanced	4

Certificate Total: 24

Health and Wellness Certificate/ Area of Specialization (3252)

This certificate/area of specialization provides students with a broad knowledge in exercise and fitness, nutrition and its effects on health, basic care and prevention of injuries, first aid, and emergency procedures.

HLTH 1300	Nutrition and Family Health	2
PEHR 1250	First Aid	2
PEHR 1750	Personal Health	3
PEHR 2500	Athletic Training	2

Certificate Total: 9

Healthcare Access Associate Certificate/ Area of Specialization (3255)

The Healthcare Access Associate program is designed to provide students with the knowledge and skills to perform patient access services in a healthcare environment. Patient access services is described as the department that takes care of the patient's needs from the time the patient and their family enter the hospital/clinic until the patient is placed into a bed. The functions include, but are not limited to, greeting and directing the patient and their family, admitting and registering the patient, verifying and certifying insurance, and finding and placing the patient in an open appropriate bed.

This curriculum focuses on building a strong knowledge of medical terminology, medical reimbursement, and medical insurance. It also stresses effective communication and awareness of human behavioral characteristics in the healthcare environment. The Healthcare Access Associate curriculum includes a clinical/apprenticeship component. Qualified students will be placed in a hospital/clinical setting where they will experience first-hand the healthcare access profession. The curriculum also helps students prepare for the National Association of Healthcare Access Management (NAHAM) exam for certification as a Certified Healthcare Access Associate.

Students must apply for admission to this certificate/area of specialization. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the program.

Summer Semester:

HLTH 1210Medical Terminology	2
	2

Fall Semester:

HLTH 1400Customer Service in Healthcare.	2
HLTH 1410Healthcare Access Fundamentals	2
ITIS 1000.Introduction to Personal Computers	1
MDAS 1150.Medical Office Insurance and Reimbursement	3
	8

Spring Semester:

HLTH 1800Healthcare Access Associate Seminar.	1
HLTH 1810Healthcare Access Associate Internship	5
	6

Certificate Total: 16

Massage Therapy Certificate/ Area of Specialization (3451)

Massage therapy is a healing art as well as a science. It involves the hands-on treatment of muscles and soft tissues, and may apply adjunctive therapies to positively affect the health and well-being of the client. Massage therapists require the balance of academic and technical knowledge, clinical skills, manual dexterity, sensitivity, and awareness.

Massage therapists practice in a variety of settings, such as private offices or clinics, chiropractor's or doctor's offices, holistic health clinics, health clubs and fitness centers, spas, nursing homes and hospitals, with sport teams, sports medicine facilities, and client home visits.

This certificate/area of specialization provides the study of anatomy, physiology, theory and practice of massage therapy, ethics, infection control, and business practice as well as hands-on practice.

After successful completion of the program in the middle of spring semester, students are eligible to sit for the state licensure examination administered by the State Medical Board of Ohio in June.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

A minimum GPA of 2.0 and a "C" grade or higher is required in all science and program-specific courses for graduation.

ADMISSION PROCEDURES

Students must meet specific admission requirements for this certificate/area of specialization. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the program. Among the requirements for admission are the completion of BIOL 2210 Anatomy and Physiology I and HLTH 1210 Medical Terminology. Listed below are requirements for admission:

OPTION 1: High School Option

This option is for current high school seniors or high school graduates who apply to the program within two years of high school graduation.

Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.

- Complete college application(s).
- Composite score of 21 or higher on the American College Test (ACT) or combined score of 1400 on the Scholastic Aptitude Test (SAT).
- Complete high school algebra, chemistry, and biology with a "C" grade or higher.
- An overall high school GPA of 2.5 on a 4.0 scale or equivalent.
- Meet with a counselor or admissions to review program prerequisites and requirements.

Upon successful completion of the above criteria, the applicant will be admitted into the program. Students must complete HLTH 1210 (Medical Terminology) with a "C" grade or higher prior to enrolling in their first health technology course.

OPTION 2: College Option

This option is for students who do not qualify for admission under Option 1. **Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.**

- Complete college application(s).
- Submit high school transcript as well as any college transcript.
- Successful passing score on the required program pre-admission test.
- Meet with a counselor or admissions to review program prerequisites and requirements.
- The following courses, or equivalent courses at other regionally accredited colleges, must be completed with a "C" or higher and have a minimum cumulative GPA in program applicable courses of 2.5 or higher.
 - * HLTH 1210 Medical Terminology
 - * BIOL 2210 Anatomy & Physiology I

NOTE: Students must meet one of these requirements to take BIOL 2210 with a "C" or higher:

1. High school biology within last five years and high school chemistry.
2. High school biology within last five years and CHEM 1100 Elementary Chemistry.
3. Biology 1200 Fundamentals of Biology for the Health Technologies.

OPTION 3: Advanced Education Option

Students pursuing this option must have an Associate of Applied Science Degree in Nursing or Allied Health, Bachelor of Science Degree in a natural science, or an Associate of Science Degree to be waived from the preadmission testing. All other Option 2 requirements apply.

Students must earn a grade of “C” or above in each course in the program sequence in order to continue in the Massage Therapy program.

Fall Semester:

BIOL 2210	Anatomy and Physiology I	4
MSTH 1100	Massage Therapy I: Introduction to Massage Therapy	6
		<hr/> 10

Spring Semester:

BIOL 2220	Anatomy and Physiology II	4
HLTH 1500	Ethics and Legal Issues for Health Professionals	2
MSTH 1200	Massage Therapy II: Theory and Practice	6
		<hr/> 12

Summer Semester:

MSTH 1300	Massage Therapy III: General Massage Clinical Lab	2
MSTH 1500	Business Practice in Massage Therapy	2
SPCH 1100	Effective Interpersonal Communications	3
		<hr/> 7

Fall Semester:

HLTH 2100	Pathophysiology	3
MSTH 1350	Functional Assessment and Kinesiology	3
MSTH 1600	Specialized Clinical Experience	3
		<hr/> 9

Spring Semester:

(1st 8 weeks)		
MSTH 1700	Massage Therapy Seminar	3
		<hr/> 3

Certificate Total: 41

Medical Assisting Certificate/ Area of Specialization (3550)

Medical assistants perform clinical and administrative functions necessary to keep healthcare delivery settings running smoothly. They are employed primarily in physician offices, but also in hospitals, nursing homes, and other healthcare facilities. The duties of medical assistants vary depending on the size and location of the practice. They may be “generalists,” handling both clerical and clinical duties or may specialize in a particular area.

Administrative responsibilities may include telephone triage, updating and filing patient medical records, scheduling appointments, billing, and bookkeeping. Clinical duties may include taking vital signs and medical histories, preparing patients for examination, instructing patients, and performing basic diagnostic testing.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

Drug Testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a “C” grade or higher is required in all science and program-specific courses for graduation.

The Lakeland Community College Medical Assisting Certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board of the American Association of Medical Assistants Endowment (CRB-AAMAE). CAAHEP, 1361 Park Street, Clearwater, FL 33756, phone: 727.210.2350.

ADMISSION PROCEDURES

Students must meet specific admission requirements for this program and are advised to meet with a counselor or the program director. All courses except MDAS courses may be taken prior to acceptance in the Medical Assisting program. Acceptance into the program takes place when a student has completed the Medical Assisting application and is enrolled in MDAS 1110. Students may take any non-MDAS classes prior to application and acceptance into the program.

OPTION 1: High School Option

This option is for current high school seniors or high school graduates who apply to the program within two years of high school graduation.

Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.

- Complete college application(s).
- Composite score of 21 or higher on the American College Test (ACT) or combined score of 1400 on the Scholastic Aptitude Test (SAT).
- Complete high school algebra, chemistry, and biology with a “C” grade or higher.
- An overall high school GPA of 2.5 on a 4.0 scale or equivalent.
- Meet with a counselor to review program prerequisites and requirements.

Upon successful completion of the above criteria, the applicant will be admitted into the program. Students must complete HLTH 1210 (Medical Terminology) with a “C” grade or higher prior to enrolling in their first health technology course.

OPTION 2: College Option

This option is for students who do not qualify for admission under Option 1. **Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.**

- Complete college application(s).
- Submit high school transcript as well as any college transcript.
- Successful passing score on the required program pre-admission test.
- Meet with a counselor to review program prerequisites and requirements.
- The following course, or equivalent course at other regionally accredited colleges, must be completed with a “C” grade or higher
 - HLTH 1210 Medical Terminology

NOTE 1: Students are required to take the Math Placement Test and be placed into MATH 0850, or take MATH 0750 or NURS 0900.

NOTE 2: Students completing this certificate/area of specialization will have also met the requirements for the Electrocardiography Certificate/ Area of Specialization.

NOTE 3: MDAS 1700 has prerequisites that include CPR-American Heart Association: Health Care Provider.

OPTION 3: Advanced Education Option

Students pursuing this option must have an Associate of Applied Science Degree in Nursing or Allied Health, Bachelor of Science Degree in a natural science, or an Associate of Science Degree to be waived from the preadmission testing. All other Option 2 requirements apply.

Summer:

ENGL 1110*English Composition I (A)3
OR

ENGL 1111.....English Composition I (B)2
HLTH 1210Medical Terminology2
ITIS 1000.....Introduction to Personal Computers1

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Fall Semester:

HLTH 1100Introduction to Healthcare2
HLTH 1238Structure, Function, Disease, and
Therapeutics of the Human Body4
HLTH 1500Ethics and Legal Issues for Health Professionals2
HLTH 1600Basic Pharmacology2
MDAS 1110.....Introduction to Medical Assisting3
MDAS 1150.....Medical Office Insurance and Reimbursement3

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Spring Semester:

HLTH 1220Advanced Medical Terminology2
HLTH 1700Basic Electrocardiography2
MDAS 1225.....Clinical Medical Assisting3
MDAS 1250.....Medical Office Surgical Procedures2
MDAS 1300.....Physician Office Laboratory2
PSYC 1500**.....Introduction to Psychology3

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Summer:

(1st 5 weeks)

MDLT 2151Blood Collection Techniques1

(Full Summer Session)

MDAS 1700.....Medical Assisting Practicum3
MDAS 1800.....Medical Assisting Seminar1

5

Certificate Total: 41

*English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the certificate).

**Students completing this area of specialization for the Multi-Skilled Health Technology degree will use PSYC 1500 to meet the Social and Behavioral Sciences Electives requirement.

Personal Trainer Certificate (0201)

This certificate is designed for students interested in becoming a personal trainer. **Courses within this program will help students prepare for a certification exam. It is recommended that students pursue certification, but it is not required, nor is it part of the certificate program.** Many of these courses may be applied towards an Associate of Arts or an Associate of Science Degree, and may also be applicable for transferring to a four-year college. Students should consult a Lakeland counselor prior to beginning this program in order to ensure maximum transferability.

For more information, contact Jane E. Williams, Physical Education and Health Department Chair, jwilliams@lakelandcc.edu or phone 440.525.7802.

NOTE: Some courses in this certificate include prerequisites that are not included in the certificate. Students with equivalent knowledge and experience may request to have these prerequisites waived. Students who have not already taken the prerequisites and do not have equivalent knowledge and experience will need to take additional courses.

BIOL 2210 has a prerequisite of high school chemistry or CHEM 1100, high school biology in the last five years; or BIOL 1200.

BIOL 2210.....Anatomy and Physiology I4
BIOL 2220.....Anatomy and Physiology II4
BUSM 1300Introduction to Business3
PEHR 1250.....First Aid2
PEHR 1600.....Exercise Physiology2
PEHR 1650.....Health Fitness2
PEHR 1660.....Diet and Weight Management Strategies
for Sport and Fitness2
PEHR 1670.....Instructional Techniques: Strength and
Cardio Fitness2
PEHR 2500.....Athletic Training2
PEHR 2750*Personal Trainer Internship/Seminar2
SPCH 1100.....Effective Interpersonal Communications3
Choose courses from Program Options.5-14
Choose course(s) from the Electives list.3

Certificate Total: 36-45

*It is recommended that PEHR 2750 be completed as one of the last classes in the certificate. Please contact the Physical Education and Health Department Chair for an appointment one semester prior to enrolling in this course.

Program Options Requirement: minimum 5-14 credits

Students must choose all courses within at least one of the following options:

Option 1 - Recommended for students interested in owning their own business

BUSM 1620Entrepreneurship I: Principles of Marketing3
BUSM 1640Entrepreneurship II: Entrepreneurial
Startup and Planning2

Option 2 - Recommended for students interested in working in the fitness industry

BUSM 2500Principles of Marketing3
BUSM 2520Marketing of Services3
ECON 1150**Basic Economics**3

OR

ECON 2600**Principles of Microeconomics**

Electives: minimum 3 credits

BUSM 1400Professional Personal Selling3
PEHR 1750.....Personal Health3

Phlebotomy Certificate/Area of Specialization (3601)

This certificate/area of specialization provides students with the skill and knowledge to collect blood samples by venipuncture and skin puncture. As vital members of the healthcare team, phlebotomists must be able to collect quality samples from patients, assuring quality laboratory results and conforming to current CDC and OSHA guidelines. Phlebotomists must like challenge and responsibility and be able to communicate effectively with patients, laboratory personnel, and other healthcare professionals. After completion of this program, students are eligible to take a national certification exam.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

Drug Testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a "C" grade or higher is required in all science and program-specific courses for graduation.

Students must apply for admission to this certificate/area of specialization. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the program.

NOTE: *HLTH 1210 must be completed before applying for admission to the program.*

First Semester:

HLTH 1150	Introduction to Electronic Health Records	1
HLTH 1210	Medical Terminology	2
HLTH 1400	Customer Service in Healthcare.	2
SPCH 1100	Effective Interpersonal Communications	3

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Second Semester:

(1st 8 weeks)

HLTH 1240	Phlebotomy	3
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(2nd 8 weeks)

HLTH 1260	Phlebotomy Clinical Practicum.	2
HLTH 1265	Phlebotomy Seminar	1

6

Certificate Total: 14