PROGRAM OVERVIEW

Traditional path to degree

High school
(four years)

College/ University
(four years)

- Bachelor degree

IT&CS College Ready Now
Your fast track to an IT credential!

High school (four years)

- First year of college complete
- Lakeland IT Specialist certificate

Lakeland Community College (one year)

- Associate degree earned

Enter four-year Ohio college/university as a sophomore or junior
(two years)

- Bachelor's degree earned

An associate degree from Lakeland Community College can transfer seamlessly into information technology degrees offered at:

- University of Cincinnati (master's degree also available)
- Kent State University
- Hiram College
- Lake Erie College

For more information, contact
Sue Baker, IT&CS professor
Lakeland Community College
sbaker@lakelandcc.edu • 440.525.7265

2-19 bc (11010)

Information Technology & Computer Science College Ready Now

Learn how your high school students can gain:

- college credit
- internship opportunities
- professional industry certifications

All while in high school and at no extra cost!

Lakeland
COMMUNITY COLLEGE

Lakeland Community College is partnering with area high schools to cultivate, diversify and grow talent in information technology and computer science (IT&CS). Students will have the opportunity to begin taking college-level IT&CS courses as early as their freshman year of high school, and by continuing the program through senior year, will have completed one full year worth of college credits. Many of these courses will double as high school and college credit, all at no extra cost!

PROGRAM BENEFITS

- **Save money and time:** These courses are paid for through Lakeland's College Credit Plus (CCP) program, and add up to a full year of college by the time students finish high school.

- **College transfer:** By completing this program, students will graduate high school with Lakeland's IT Specialist certificate, and all courses transfer to Lakeland and other Ohio public institutions.

- **Job opportunities:** Students will have the opportunity to gain internships through this program, gaining real-world experience along the way. According to bls.gov, jobs in computer and information technology are projected to grow 13 percent from 2016 to 2026, which is 557,000 new jobs in the U.S., with median wages around $84,000/year.

- **Industry certifications:** The IT industry has a variety of standardized certifications which can help job seekers stand out among the crowd with extra credentials that prove both their skills and commitment to continued learning (**see sample program layout on the next page**).

SAMPLE PROGRAM LAYOUT

	Fall:	Spring:
9th grade (at the high school or Lakeland)	**ITIS 1007** Principles of Information Technology & Computer Science	
10th grade* (at Lakeland)	**ITON 1205** Network+** *Industry certification option: Comptia Network & Certification Exam*	**ITCS 1010** Programming Logic** *Upon completion of 10th grade year students will be prepared to earn the Google IT Support Professional Certificate. This is a five-course, self-paced industry certificate.*
11th grade (at Lakeland)	**ITCS 1820** Java I **ITIS 1102** Internet/HTML**	**ITON 1748** Linux **ITCS 1105** Web Programming**
12th grade* (at Lakeland)	**ITDB 1400** SQL** **ITDB 1405** PL/SQL** **COMM 1100** Communications** *Industry certification option: Oracle PL/SQL Developer Certified Associate*	**ITON 2250** Windows Server – 2016 **MATH 1650** College Algebra** **ENGL 1110/1111** English Composition** *Industry certification option: Microsoft Certified Professional*

**Class available in person or online.*

Internship opportunities available upon completion.

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. Satisfactory/ Unsatisfactory grades may not be used to fulfill health program requirements.

Admission Procedures

Students must meet specific admission requirements for this certificate program.

- Complete college application(s).
- EMTS 2011 Paramedic Beginner has prerequisites that include HLTH 1238 Structure, Function, Disease, and Therapeutics of the Human Body OR both BIOL 2210 Anatomy and Physiology I and BIOL 2220 Anatomy and Physiology II.
- Current Ohio certification as an EMT.
- Current American Heart Association: BLS Provider
- Successful passing score on the required program pre-admission test.
- Meet with a counselor or director of admissions to review program prerequisites and requirements.
- Please contact Health Services immediately to obtain required physical forms at 440.525.7009 or ppastorhinkel@lakelandcc.edu

Course	Title	Credit Hours
EMTS 2011	Paramedic Beginner	13
EMTS 2021	Paramedic Intermediate A	5
EMTS 2031	Paramedic Intermediate B	5
EMTS 2041	Paramedic Advanced	5
Total Credit Hours		**28**

The Lakeland Community College EMT and Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org (http://www.caahep.org)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). Commission on Accreditation of Allied Health Education Programs, 9355 - 113th St. N, #7709, Seminole, FL 33775; 727.210.2350; www.caahep.org (http://www.caahep.org). To contact CoAEMSP: 8301 Lakeview Parkway, Suite 111-312, Rowlett, TX 75088; 214.703.8445; Fax: 214.703.8992; www.coaemsp.org (http://www.coaemsp.org). The EMT and Paramedic Program is also accredited by the Ohio State Board of Emergency Medical Fire and Transportation Services, Ohio Department of Public Safety (state certification), 1970 West Board St., Columbus, OH 43223

Medical Assisting Certificate/Area of Specialization (3550)

The goal of the program is to prepare competent entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Medical assistants are multi-skilled health professionals specifically educated to work in ambulatory settings performing administrative and clinical duties. The practice of medical assisting directly influences the public's health and well-being, and requires mastery of a complex body of knowledge and specialized skills requiring both formal education and practical experience that serve as standards for entry into the profession.

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. Satisfactory/Unsatisfactory grades may not be used to fulfill health program requirements.

The Lakeland Community College Medical Assisting Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (http://www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB). Commission on Accreditation of Allied Health Education Programs, 9355 113th Street North #7709, Seminole, FL 33775, phone: 727.210.2350, http://www.caahep.org.

Admission Procedures

Students must meet specific admission requirements for this program and are advised to meet with a counselor and the program director.

Listed below are requirements for admission to the Medical Assisting certificate program:

- Complete college application
- Complete college placement test or meet test exemption requirements
  - Composite score of 21 or higher on the American College Test (ACT) or combined score of 940 on the Scholastic Aptitude Test (SAT)
- Place into MATH 0850 Beginning Algebra or successfully completed MATH 0745 Essential Skills for Algebra
- Place into ENGL 1110 English Composition I (A) or ENGL 1111 English Composition I (B) or successfully completed ENGL 0111 Fundamentals of College Literacy
- Applicants must meet with the program director and counselor to review the program prerequisites and requirements

Admission Procedures' Notes

Applicants must meet with the program director and counselor to review the program prerequisites and requirements.

Applicants who have completed the requirements for admission will be accepted into the program on a space-available basis.

MDAS 1700 Medical Assisting Practicum requires students to be at least 18 years of age and have graduated from high school prior to beginning practicum hours.

NOTE: MDAS courses must be taken in sequential order. Please consult with your counselor or program director for assistance in planning your schedule.

Course	Title	Credit Hours
First Semester		
The first semester is in Summer		

ENGL 1110
    or ENGL 1111
	English Composition I (A) [1]
	    or English Composition I (B)
		3

HLTH 1215	Medical Terminology for Health Professions 🎓	3

HLTH 1150 or ITIS 1000	Introduction to Electronic Health Records or Basic Computer Skills	1
	Credit Hours	**7**
Second Semester		
The second semester is in Fall		
HLTH 1100	Introduction to U.S. Health Care System	2
HLTH 1238	Structure, Function, Disease, and Therapeutics of the Human Body	4
HLTH 1500	Ethics and Legal Issues for Health Professionals	2
HLTH 1600	Basic Pharmacology	2
MDAS 1110	Administrative Procedures for the Medical Office 🎓	3
MDAS 1150	Medical Office Insurance and Reimbursements 🎓	3
	Credit Hours	**16**
Third Semester		
The third semester is in Spring		
HLTH 1700	Basic Electrocardiography 🎓	2
MDAS 1210	Basic Patient Skills 🎓	2
MDAS 1220	Specialty Medical Assisting 🎓	3
MDAS 1250	Medical Office Surgical Procedures 🎓	2
MDAS 1300	Physician Office Laboratory 🎓	2
PSYC 1500	Introduction to Psychology [2]	3
	Credit Hours	**14**
Fourth Semester		
The fourth semester is in Summer		
MDAS 1700	Medical Assisting Practicum 🎓	3
MDAS 1800	Medical Assisting Seminar 🎓	1
1st 5 weeks		
MDLT 2151	Blood Collection Techniques 🎓	1
	Credit Hours	**5**
	Total Credit Hours	**42**

[1] English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the certificate).

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

🎓 This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Administrative Medical Office Assistant Certificate/Area of Specialization (3549)

The goal of the program is to prepare competent entry-level administrative medical office assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. The responsibilities of an administrative medical office assistant may include telephone triage, updating and filing patient medical records, scheduling appointments, billing, and bookkeeping in a medical office environment.

Upon completion of the certificate students are eligible to take the National Certification Exam for Administrative Medical Office Assistants.

Students should contact the director of admissions or the Counseling Office for details about applying for admission to the program. Students must be formally accepted into the program and are required to meet with the program director prior to starting the program.

Admission Procedures

Students must meet specific admission requirements for this program and are advised to meet with a counselor and the program director.

Listed below are requirements for admission to the Administrative Medical Office Assistant certificate program:

- Complete college application
- Complete college placement test or meet test exemption requirements
  - Composite score of 21 or higher on the American College Test (ACT) or combined score of 940 on the Scholastic Aptitude Test (SAT)
- Place into MATH 0850 Beginning Algebra or successfully completed MATH 0745 Essential Skills for Algebra
- Place into ENGL 1110 English Composition I (A) or ENGL 1111 English Composition I (B) or successfully completed ENGL 0111 Fundamentals of College Literacy
- Applicants must meet with the program director and counselor to review the program prerequisites and requirements

Admission Procedures' Notes

Applicants must meet with the program director and counselor to review the program prerequisites and requirements.

Applicants who have completed the requirements for admission will be accepted into the program on a space-available basis.

NOTE: MDAS courses must be taken in sequential order. Please consult with your counselor or program director for assistance in planning your schedule.

Course	Title	Credit Hours
First Semester		
The first semester is in Fall		
ENGL 1110 or ENGL 1111	English Composition I (A) [1] or English Composition I (B)	3
HLTH 1215	Medical Terminology for Health Professions	3
MDAS 1110	Administrative Procedures for the Medical Office	3
MDAS 1150	Medical Office Insurance and Reimbursements	3
	Credit Hours	**12**
Second Semester		
The second semester is in Spring		
HLTH 1150	Introduction to Electronic Health Records	1
HLTH 1238	Structure, Function, Disease, and Therapeutics of the Human Body	4
HLTH 1400	Customer Service and Healthcare	2
	Credit Hours	**7**
	Total Credit Hours	**19**

[1] English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the certificate).

Nursing Assistant Certificate/Area of Specialization (3310)

Nursing assistants work in long-term care facilities, hospitals and other facilities delivering direct care, such as bathing and dressing patients, under the direct supervision of a nurse. The HLTH 1350 Nursing Assistant course includes classroom learning and hands-on clinical training. This course introduces basic knowledge and skills for care of the clients in a nursing home or long-term care facility. It also reinforces customer service skills and medical language skills. Successful completion of this course qualifies students to take the Ohio Department of Health's Training Competency Evaluation Test to become a State-Tested Nursing Assistant.

Course	Title	Credit Hours
HLTH 1215	Medical Terminology for Health Professions	3
HLTH 1350	Nursing Assistant	4
HLTH 1400	Customer Service and Healthcare	2
Certificate Total		**9**