The Non-Invasive Electrocardiography program provides the student with didactic, laboratory practice and a clinical component in preparation for a health career as a Certified Non-Invasive Electrocardiographic Technician.

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The electrocardiography (EKG) procedure records the electrical activity of the heart muscle via electrodes displaying heart activity as a visual tracing. This tracing provides valuable information as it relates to the electrical conduction system of the heart. EKG is a highly specialized and technical procedure used for assessing cardiac function and diagnosing cardiac disease. Non-invasive EKG procedures do not involve any incisions or entry into the thoracic (chest) cavity.

EKG Technicians perform non-invasive cardiology tests including; pulse, blood pressure, recording electrical activity of the heart, stress testing, and holter monitor testing. The EKG program includes a module in telemetry; defined as the transmission of cardiac signals to a receiving location where they are displayed for monitoring. Telemetry is used for inpatients who are at risk of abnormal heart activity, generally in a coronary care unit. Telemetry technicians are responsible for monitoring patients on these devices.

The cardiologist depends on the EKG technician to collect quality tracings that allow the physician to make accurate diagnoses while delivering exceptional cardiac care. To do this, the EKG technician must understand the importance of correct lead placement and monitoring of the patient while performing EKGs in a skillful, safe and reliable manner.

The ability of the EKG technician to recognize normal and abnormal tracings as well as identify artifacts on a tracing is critical to the accuracy of the test results. They must communicate effectively by relaying critical information to the cardiologist; they must also have the ability to handle emergency situations, if necessary.

The mean annual salary for EKG technicians ranges from $23,348 to $35,036, according to payscale.com. The average hourly pay for EKG technician is $15 to $16 per hour. Employment is expected to grow by 29 percent through 2018, much faster than average for all occupations. As imaging technology evolves, it will replace the more invasive, costly cardiac procedures.

**Mission Statement**
The Non-Invasive Electrocardiography program provides students with didactic, laboratory and clinical experiences in preparation for a profession as a Certified Non-Invasive Electrocardiographic Technician. Upon completion, the student will function as an integral member of the health care team with competence and confidence.

**Standard Skills in EKG**
To participate in the Non-Invasive Electrocardiography program, students must possess additional non-academic skills. These standards are consistent with the duties of the entry-level technician in a professional position. These skills, which protect the health and well-being of patients, may include but are not limited to the ability to:

- Move, adjust equipment and perform EKG procedures
• Position patients for procedures
• Respond appropriately to sounds such as the patient’s voice and movements at a normal conversational volume
• Demonstrate visual acuity to assess equipment
• Manipulate appropriate equipment
• Perform for a prolonged period without breaks in a typical shift of eight hours
• Communicate orally and in writing in the English language with patients, doctors and other personnel clearly and effectively
• Follow verbal and written directions in the English language
• Respond appropriately to emergency procedures

If you are uncertain of your ability to perform these essential functions or feel you need reasonable accommodations to perform them, please consult with Special Student Services

Non-Discrimination Policy
The College prohibits discrimination in its admissions, employment, and educational programs or activities on the basis of race, color, sex, religion, creed, national origin, age, ancestry, marital status, sexual orientation, gender identity and expression, arrest record, military status or unfavorable military discharge, citizenship status, and physical or mental disability. The College will protect an individual’s right to express their viewpoint or opinion, so long as it does not violate State or Federal law and is not detrimental to the College.

The Policy against discrimination applies throughout all College environments, whether on campus, at work assignments off campus, at College-sponsored social functions, or otherwise. Procedures to facilitate the College’s prohibition of discrimination will be promulgated consistent with the Policy. (Board Policy 20-5).

Citizenship/Visa Status
If you are not a U.S. citizen or a permanent resident of the U.S., and if you have any questions or concerns regarding your eligibility to participate in health sciences programs, please contact the International Student Office, SSC 2225, (630) 942-3328, e-mail: intlstdt@cod.edu. Qualified applicants will be considered out-of-district in the admissions ranking process if they are not a:
• U.S. citizens
• Permanent residents

College Admission
In order to register for courses students must submit a College of DuPage Admission Form online or in person in the College of DuPage Admissions & Outreach office, SSC 2207 and pay the non-refundable $20 application fee. This is an admission to the College of DuPage only. Students will receive a My Access ID number after completion of admission paperwork. The ID number is used to register for courses

Academic Prerequisites
1. Completion of or concurrent enrollment in Health Science (HLTHS) 1110, Biomedical Terminology, with a grade of “C” or higher.
**Course Requirements**
The number of students registered in EKG courses is determined by the availability of clinical sites. Students will be assigned a clinical site that offers adequate supervision/mentoring in an appropriate learning environment.

The Non-Invasive Electrocardiography Certificate program is an intensive curriculum, with course work in Basic EKG (HLTHS 1126) and Advanced EKG (HLTHS 1128). EKG clinical (HLTHS 1129) is designed to meet the needs of the curriculum, the clinical affiliation, and certification standards while preparing the student for employment.

**Clinical placement is the decision of the program coordinator.**

**Prerequisite**
HLTHS 1110  Biomedical Terminology  3 credit hours

1st Semester  
HLTHS 1126  Basic EKG  2 credit hours

2nd Semester  
HLTHS 1128  Advanced EKG  3 credit hours

**Students must receive a “C” or higher in above courses to continue with the clinical component.**

3rd Semester  
HLTHS 1129  EKG Clinical  1 credit hour

**Total credits for certificate**  9 credit hours

Upon completion of program requirements students are eligible to sit for the Certified Cardiographic Exam and/or the Certified Rhythm Analysis Exam through Cardiovascular Credentialing International (CCI). Successful completion of this exam, the student becomes a Certified Cardiographic Technician (CCT) or Certified Rhythm Anaylsis Technician (CRAT). For more information about CCI or the CCT exam go to the following website. http://www.cci-online.org/content/certified-cardiographic-technician-cct. Students can also petition to receive a certificate from the college upon completion of the required courses.

**Clinical Requirements** must be completed before registering for HLTHS 1129 EKG Clinicals

1. **Medical Malpractice Insurance** required and included in the tuition of HLTHS 1129.  
   - Students must be registered and listed on the instructor’s roster to be covered by malpractice insurance.

2. **Students must complete clinical requirements prior to starting a clinical assignment. Do not complete clinical requirements until instructed to do so.** The Health Requirements packet is available on the Health Sciences Admissions and the program webpages. Some clinical affiliates require further testing, which is the responsibility of the student. Students with chronic medical conditions and physical limitations are required to submit
documentation of current health status relating to their specific condition. The statement should include the physician’s assessment as to the student’s ability to meet the program objectives and standard skills in electrocardiography and the current medications the student is required to take for health maintenance.

3. **CPR** for Health Providers Certification through the American Heart Association.
4. **Criminal Background Check**; felony convictions may disallow a clinical assignment
5. **Proof of Health Insurance**.
6. **Transportation**: Students responsible for providing transportation to and from the clinical site.

**Note**: Please see specific program registration or admission packets for detailed information on when to begin completing health requirements, drug tests, CPR, criminal background checks and proof of insurance submission. Timing varies depending upon either entrance to or participation in the clinical component of a given program. Funds paid to Edward Corporate Health or to a personal health care provider/ source, CastleBranch.com, insurance companies, and funds used towards CPR completion are not eligible for any sort of refund from College of DuPage if the required course(s) are not successfully completed.

**Clinical sites available (subject to change)**
- Advocate Christ Hospital, Palos Heights
- Alexian Brothers Medical Center, Elk Grove Village
- Delnor Community Hospital, Geneva
- Edward Hospital, Naperville
- Glen Oaks Medical Center, Glendale Heights
- Good Samaritan Hospital, Downers Grove
- Hinsdale Hospital, Hinsdale

**Program Information Disclaimer**
This program information packet is published for that purpose; however, information in this packet is not to be regarded as an irrevocable contract between the student and the program. The program reserves the right to change, at any time, without notice, requirements, fees and other charges, curriculum, course structure and content, and other such matters as may be within its control, notwithstanding any information set forth in the program information packet in accordance with College of DuPage policies and procedures.

**For more information, contact:**
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