



# Atlantic Technical College

## Electrocardiograph Technology

### Program Syllabus

#### 2022-2023



**Instructor Name:** Andrea Beckerman, Alvaro Ramirez  
**Department Name:** Health Science  
**Office/Classroom Location:** Building 18 - Room 288  
**Phone Number:** 754-321-5158 office  
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[andrea.beckerman@browardschools.com](mailto:andrea.beckerman@browardschools.com)

**Instructors Office Hours:**  
**M-F:** 2:15pm – 3:05pm

Instructor responses to student inquires will be provided within 24 hours of regular school operating hours:  
 Monday – Friday, 7:00am – 3:00pm.

**Student Hours:**

**Monday – Friday**

**Class Hours:** 7:05am – 1:50pm  
*(Clinical hours may vary according to facility/agency)*

**Break:** 9:05am – 9:20am  
**Lunch:** 11:05am – 11:35am

<b>Program Name: Electrocardiograph Technology</b>		
<b>OCPs</b>	<b>Course Names</b>	<b>Hours</b>
A	HSC0003 – Basic Healthcare Worker	90
B	MEA0540 – EKG Aide	75
C	MEA0541 – EKG Technician	130

**Program Description:**

The program is designed to train students to become EKG/cardiovascular technicians who can work in a variety of healthcare facilities including hospitals, nursing homes, clinics and physician offices. Students will learn how to perform a 12 lead EKG, properly maintain diagnostic equipment, recognize normal and abnormal sinus rhythms and monitor patients for cardiovascular disorders. An overview of anatomy and physiology, with emphasis on cardiac and vascular systems is taught along with medical terminology, basic patient care techniques, medical instrumentation, cardiac monitoring and testing and cardiac wellness and rehabilitation.

**Technical College Policy/Adult Student Attendance:**

- A student must be withdrawn after being absent for six (6) consecutive days.
- Two (2) additional absences may be allowed under certain circumstance with appropriate documentation.
- Please refer to the Student Handbook for postsecondary students.  
<http://www.atlantictechcollege.edu/atc-student-handbook/>

**Magnet High School/Attendance Policy:**

A student who has had at least five unexcused absences, or absences for which the reasons are unknown, within a calendar month, or 10 unexcused absences, or absences for which the reasons are unknown, within a 90-calendar-day period, may be exhibiting a pattern of non-attendance according to (F.S.1003.26 (1) (b)) and the School Board of Broward County, Policy 5.5.

**Required Book(s) and/or Online Access:**

Available for purchase at the ATC Bookstore:

- AES Core Curriculum Access Code
- BLS for Health Care Providers
- *ECG's Made Easy*, 6<sup>th</sup> ed., Barbara Aehlert, Elsevier, 2013

**Required Materials/Supplies:**

Purchased from ATC Bookstore:

- CPR Valve
- Uniform: ATC logo Cherokee scrub top
- ATC logo t-shirt (optional)

Not Purchased from ATC Bookstore:

- Shoes: black or white shoes, (see student handbook)
- Uniform: Cherokee scrub bottom
- White scrub jacket (optional)

*All required books and most materials/supplies can be purchased from the ATC bookstore.  
 Stop by during operational hours for pricing and purchasing information.*

<p><b>Grading System:</b></p> <p>A 90 - 100%</p> <p>B 80 - 89%</p> <p>C 70 - 79%</p> <p>D 60 - 69%</p> <p>F 0 - 59%</p> <p>I Incomplete</p> <p>*Grades are not rounded up.</p>	<p><b>Additional Program Specific Grading Information:</b></p> <ul style="list-style-type: none"> <li>• Unit Tests – 60%</li> <li>• Comprehensive Final Exam – 10%</li> <li>• Medical Terminology Quizzes – 10%</li> <li>• Workbook/Assignments – 10%</li> <li>• Employability skills – 10%</li> </ul> <p>NOTE: Postsecondary students with disabilities must self-identify, present documentation, request accommodations if needed, and develop a plan with their counselor.</p>
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<p><b>View Your Grades:</b></p> <p><b>Grades can be viewed online by following the directions below:</b></p> <ol style="list-style-type: none"> <li>1. Go to Clever SSO Website link: <a href="https://sso.browardschools.com">https://sso.browardschools.com</a> and login:       <ol style="list-style-type: none"> <li>a. Username: 10-digit student ID number</li> <li>b. Password: PMM/DD/YYYY (or your personally created password after initial login)</li> </ol> </li> <li>2. Click on the FOCUS app on your Clever opening page. (You may need to scroll-down the page to see the FOCUS app.)</li> <li>3. Enter your FOCUS username and password.</li> </ol> <p>NOTE: If the Focus App. is not visible after logging into Clever, please navigate to the Broward Focus website directly: <a href="https://broward.focusschoolsoftware.com/focus/">https://broward.focusschoolsoftware.com/focus/</a>.</p>
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<p><b>Classroom/Lab Rules:</b></p> <p>See program Handbook for all classroom rules, policies and procedures.</p>
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<p><b>Industry Certification &amp; State Credential Exam Cost:</b></p> <ul style="list-style-type: none"> <li>• Certified EKG Technician (CET) Examination offered by the National Health Career Association- \$117</li> </ul> <p><i>You may qualify for certification reimbursement of your exam cost(s) upon passing. Credential fees are subject to change.</i></p>	<p><b>Outstanding Student Recognition Information:</b></p> <p>A gold seal will be applied to a Program Completion Certificate or an Applied Technology Diploma if the student has earned a 3.5 GPA or higher in their Career and Technical Education (CTE) classes.</p>
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<p><b>Program Name: Electrocardiograph Technology</b></p>
<p><b>Course Number:</b> HSC0003</p> <p><b>Course Name:</b> Basic Healthcare Worker</p> <p><b>Occupational Completion Point:</b> A</p> <p><b>Intended Outcomes:</b> (From FL DOE Curriculum Framework)</p> <p>Student will be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate knowledge of the healthcare delivery system and health occupations.</li> <li>• Demonstrate the ability to communicate and use interpersonal skills effectively.</li> <li>• Demonstrate legal and ethical responsibilities.</li> <li>• Demonstrate an understanding of and apply wellness and disease concepts.</li> <li>• Recognize and practice safety and security procedures.</li> <li>• Recognize and respond to emergency situations.</li> <li>• Recognize and practice infection control procedures.</li> <li>• Demonstrate an understanding of information technology applications in healthcare.</li> <li>• Demonstrate employability skills.</li> <li>• Demonstrate knowledge of blood borne diseases, including HIV/AIDS.</li> <li>• Apply basic math and science skills.</li> </ul>

**Course Number:** MEA0540

**Course Name:** EKG Aide

**Occupational Completion Point:** B

**Intended Outcomes:** (From FL DOE Curriculum Framework)

Student will be able to:

- Describe the cardiovascular system.
- Identify legal and ethical responsibilities of an EKG aide.
- Demonstrate knowledge of, apply and use medical instrumentation modalities.
- Perform patient care techniques in the health care facility.

**Course Number:** MEA0541

**Course Name:** EKG Technician

**Occupational Completion Point:** C

**Intended Outcomes:** (From FL DOE Curriculum Framework)

Student will be able to:

- Recognize normal and abnormal monitoring and testing results.
- Describe cardiovascular drugs, their actions, use, and adverse effects.
- Demonstrate knowledge of other cardiovascular diagnostic modalities.