

HEALTH SCIENCE ACADEMY HIGH SCHOOL TRACKS

- BSN Prerequisites AA Degree, Liberal Arts Major (coursecatalog.tvcc.edu/pathways/health-sciences/health-science-academy-high-school-tracks/bsn-prerequisites-aa/)
- Certified EKG Technician OSA (coursecatalog.tvcc.edu/pathways/health-sciences/health-science-academy-high-school-tracks/certified-ekg-technician-osa/)
- Clinical Medical Assistant OSA - Health Science Academy (coursecatalog.tvcc.edu/pathways/health-sciences/health-science-academy-high-school-tracks/clinical-medical-assistant-osa/)
- Vocational Nursing - Health Science Academy (coursecatalog.tvcc.edu/pathways/health-sciences/health-science-academy-high-school-tracks/vocational-nursing/)

ECRD-1211. Electrocardiograph. (2 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. Lab fee.

HPRS-1105. Essentials of Medical Law/Ethics for Health Professionals. (1 Credit)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Introduction to the relationship between legal aspects and ethics in health care, with emphasis on the ethical and legal responsibilities of health care professionals. Lab fee.

HPRS-1304. Basic Health Professions Skills Health Professionals. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A study of the concepts that serve as the foundation for health profession courses, including client care and safety issues, basic client monitoring, and health documentation methods. Lab fee.

MDCA-1160. Clinic Med Assist. (1 Credit)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee \$87 includes professional liability insurance and drug screen.

MDCA-1254. Medical Assisting Credentialing Exam Review. (2 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A preparation for one of the National Commission for Certifying Agencies NCCA recognized credentialing exams. Lab fee.

MDCA-1317. Procedures in a Clinical Setting. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Emphasis on patient assessment, examinations, and treatment as directed by a physician. Includes vital signs, collection and documented of patient information, asepsis, office clinical procedures and other treatments as appropriate for ambulatory case settings. Computer with web access is required. Lab fee.

MDCA-1348. Pharmacology & Administration of Medications. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Instruction in concepts and application of pharmacological principles. Focuses on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems, and medico-legal responsibilities of the medical assistant. Lab fee.

MDCA-1452. Medical Assistant Laboratory Procedures. (4 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Application of governmental health care guidelines. Includes specimen collection and handling, quality assurance and quality control in performance of Clinical Laboratory Improvement Amendments (CLIA) waived laboratory testing. Lab fee.

NURA-1307. Body Systems. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A basic study of the structures and functions of the human body. Lab fee.

TECM-1303. Technical Calculations. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Specific mathematical calculations required by business, industry, and health occupations.

VNSG-1122. Vocational Nursing Concepts. (1 Credit)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Introduction to the nursing profession and its responsibilities. Includes legal and ethical issues in nursing practice. Concepts related to the physical, emotional and psychosocial self-care of the learner/professional.

VNSG-1160. Clinical I. (1 Credit)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional. Lab fee \$87 includes drug screen and professional liability insurance.

VNSG-1231. Pharmacology. (2 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Fundamentals of medications and their diagnostic, therapeutic and curative effects. Includes nursing interventions utilizing the nursing process. Lab fee.

VNSG-1400. Nursing in Health and Illness I. (4 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Introduction to general principles of growth and development, primary health care needs of the patient across the life span and therapeutic nursing interventions. Lab fee \$215 for Terrell program and \$364 for Palestine program; lab fee includes diagnostic testing program.

VNSG-1472. Nursing Skills I. (4 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Introduction to basic nursing skills. Emphasis on utilization of the nursing process and related scientific principles. Lab fee.

VNSG-2473. Nursing Skills II. (4 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Continuation of application of advanced nursing skills to meet patient needs utilizing the nursing process and related scientific principles. Lab fee.

A grade of C or better is required in all courses, nursing and non-nursing.

SUMMARY (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm>)

2018 Median Pay: \$46,240 per year; \$22.23 per hour

Typical Entry-Level Education: Postsecondary nondegree award

Work Experience in a Related Occupation: None

On-the-job Training: None

Number of Jobs, 2018: 728,900

Job Outlook, 2018-28: 11% (Much faster than average)

Employment Change, 2018-28: 78,100

WHAT LICENSED PRACTICAL AND LICENSED VOCATIONAL NURSES DO (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-2>)

Licensed practical nurses (LPNs) and licensed vocational nurses (LVNs) provide basic nursing care.

WORK ENVIRONMENT (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-3>)

Licensed practical and licensed vocational nurses work in many settings, including nursing homes and extended care facilities, hospitals, physicians' offices, and private homes. Most work full time.

HOW TO BECOME A LICENSED PRACTICAL OR LICENSED VOCATIONAL NURSE (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-4>)

Licensed practical and licensed vocational nurses must complete a state-approved educational program, which typically takes about 1 year to complete. They must be licensed.

PAY (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-5>)

The median annual wage for licensed practical and licensed vocational nurses was \$46,240 in May 2018.

JOB OUTLOOK (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-6>)

Employment of licensed practical and licensed vocational nurses is projected to grow 11 percent from 2018 to 2028, much faster than the average for all occupations. As the baby-boom population ages, the overall need for healthcare services is expected to increase. LPNs and LVNs will be needed in residential care facilities and in-home health environments to care for older patients.

STATE & AREA DATA (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-7>)

Explore resources for employment and wages by state and area for licensed practical and licensed vocational nurses.

SIMILAR OCCUPATIONS (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-8>)

Compare the job duties, education, job growth, and pay of licensed practical and licensed vocational nurses with similar occupations.

MORE INFORMATION, INCLUDING LINKS TO O*NET (<https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm#tab-9>)

Learn more about licensed practical and licensed vocational nurses by visiting additional resources, including O*NET, a source on key characteristics of workers and occupations.

SUGGESTED CITATION:

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Licensed Practical and Licensed Vocational Nurses, on the Internet at <https://www.bls.gov/ooh/healthcare/licensed-practical-and-licensed-vocational-nurses.htm> (visited *March 15, 2020*).

TVCC has partnered with Career Coach (<https://tvcc.emsicc.com/?radius=®ion=10%20Mile%20Radius%20from%20Athens%2C%20TX>) for students to discover majors and in-demand careers and education based on your interests!

- Career Assessment Profiler
- Interactive Career Catalog
- Browse TVCC's Pathways

Some careers in this field will require a bachelor's degree.

- TVCC's AA degrees are fully transferable to public universities in Texas. See an academic advisor or TVCC's university transfer webpage (<https://www.tvcc.edu/Advisement/Category.aspx?z=72>) for more information on this transfer opportunity.

- Many of TVCC's AAS degrees lead to an online Bachelor of Applied Arts and Sciences (BAAS) degree with participating universities. See an academic advisor or the BAAS transfer website (<https://www.ntxccc.org/pathways/>) for more information on this transfer opportunity.