



Thomas Nelson Community
College



Associate in Applied Science in Automotive Technology

STUDENT DATA:

NAME: ROADMAP'S DEGREE

SSN: 000-00-0000

**Credit Potential
Required Credit**

Practical Writing I (ENG 101) [EN024A]

3.00

(Develops writing ability for study, work, and other areas of life, with emphasis on occupational correspondence and reports. Guides students in learning writing as a process: understanding audience and purpose, exploring ideas and information composing, revising, and editing. Supports writing by integrating experiences in thinking, reading, listening, and speaking. Note: ENG 102 is usually offered in the spring semester only. College credit by examination may apply.)

{DANTES Code = 11.07.00}

Workshop in Interpersonal Skills (SPD 127)

2.00

(Prerequisite(s): ENG 03, ENG 05 if required by individual student's placement. Emphasizes practical applications of career-oriented oral communication skills at the interpersonal level.)

{{DANTES Code = 04.10.05}}

Humanities Elective

3.00

(For selection of Humanities electives refer to the approved General Education Electives in the catalog. College credit by examination may apply. Visit the TNCC website for a description of courses available.)

{DANTES Code = 08.06.00 or most 08.XX.XX series}

Survey of Technical Mathematics I (MTH 105) [MH061A]

2.00

(Must be taken in sequence. Prerequisite(s): A placement recommendation for MTH 105 and one unit of high school mathematics or equivalent (MTH 01). Reviews arithmetic, measurement, topics in basic algebra, elementary concepts in plane and solid geometry, and elementary right trigonometry.)

{DANTES Code = 14.02.00}

Survey of Technical Mathematics II (MTH 106) [MH061A]

2.00

(Must be taken in sequence. Prerequisite(s): A placement recommendation for MTH 105 and one unit of high school mathematics or equivalent (MTH 01). Reviews arithmetic, measurement, topics in basic algebra, elementary concepts in plane and solid geometry, and elementary right trigonometry.)

{DANTES Code = 14.02.00}

Social Science Electives

6.00

(For selection of Social Science electives refer to the approved General Education Electives in the catalog. College credit by examination may

apply. Visit the TNCC website for a description of courses available.)
 {DANTES Code = 08.06.00 or most 08.XX.XX series}

First Aid and Safety (HLT 106) [HL001A] 2.00

(Prerequisite(s): ENG 05 if required by individual student's placement.
 Focuses on the principles and techniques of safety and first aid.)
 {DANTES Code = 09.04.00}

College Success Skills (SDV 100) 1.00

Encourages contacts with other students and staff. Assists students toward college success through information regarding effective study habits, career and academic planning, and other college resources available to students. (May include English and math placement testing. Strongly recommended for beginning students. Required for graduation.)

Computer Competency

(Students in this degree are required to demonstrate computer competency prior to graduation. The competency may be demonstrated by satisfactory completion of Basic Computer Literacy (ITE 115). Check with your advisor or division office for details about how to complete this requirement.)

Automotive Engines II (AUT 112) [VO002A] 4.00

(Presents analysis of power, cylinder condition, valves, and bearings in the automotive engine to establish the present condition, repairs, or adjustments.)

Anti-Pollution Systems (AUT 125) [VO018A] 3.00

(Studies various anti-pollution systems used on modern automobiles, installation, inspection, repair and service.)

Automotive Fuel and Ignition Systems (AUT 126) [VO007A] 5.00

(Studies automobile ignition and fuel systems, their functions in operation of engine. Includes carburetors, fuel pumps, ignition systems, troubleshooting, engine test and adjustment, and tune-up.)

Auto Power Trains I (AUT 141) [VO009A] 4.00

(Presents operation, design, construction, and repair of power train components, standard, and automatic transmission. Includes clutches, propeller shaft, universal joints, rear axle assemblies, fluid couplings, torque converters as well as 2, 3, and 4-speed standard, overdrive, and automatic transmissions.)

Automotive Climate Control (AUT 236) [VO011A] 4.00

(Introduces principles of refrigeration, air conditioning controls and adjustment, and general servicing of automotive air conditioning systems.)

Automotive Electricity II (AUT 242) [VO003A] 4.00

(Introduces electricity and magnetism, symbols, and circuitry as applied to alternators, regulators, starters, lighting systems, instruments, gauges and accessories.)

Automotive Electronics (AUT 245) [VO004A]	4.00	
(Prerequisite(s): ELE 150 or AUT 242. Introduces field of electronics as it applies to the modern automobile. Emphasizes basic circuit operation, diagnosis and repair of digital indicator and warning systems.)		
Automotive Transmissions I (AUT 251) [VO010A]	4.00	
(Studies several types of automatic transmissions, torque converters, and their principles of operation. Includes adjustment, maintenance, and rebuilding.)		
Automotive Alignment, Suspension and Steering (AUT 266)	4.00	
(Introduces use of alignment equipment in diagnosing, adjusting, and repairing front and rear suspensions. Deals with repair and servicing of power and standard steering systems)		
Automotive Suspension and Braking Systems (AUT 267) [VO006A]	4.00	
(Presents the operation, design, construction, repair and servicing of braking and suspension systems. Explains use of tools and test equipment, evaluation of test results, estimation and repair cost, front and rear suspension alignment, power and standard steering, and power, standard and disc brakes.)		
Automotive Driveability and Tune-up I (AUT 273) [VO017A]	3.00	
(Presents diagnostic and service procedures for automatic and mechanical systems. Teaches use of tools and test equipment, evaluation of test results, and estimation of repair cost. Emphasizes performance of required service.)		
AC and DC Circuit Fundamentals (ELE 150) [ET013A]	3.00	
(Prerequisite(s): ENG 05 if required by individual student's placement; MTH 01. Provides an intensive study of the fundamentals of direct and alternating current, resistance, magnetism, inductance, and capacitance, with emphasis on practical applications. Focuses on electrical/machines applications.)		
Excess or Duplicate Credit		
TOTAL	67	0.00

Thank you for requesting support from the U.S. Coast Guard Institute (CGI). Whereas we serve as an activity in support of your unit Educational Services Officer (ESO), you are encouraged to seek assistance from your local ESO in your academic endeavors. The following information is provided to help you understand what is presented in this degree plan:

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary assessment of how your prior learning experiences might fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, who will review it for the following:

- o Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level

course requirements, and the total number of credits needed for the degree.

- o Appropriate assignment of ACE Guide-recommended credit at the lower or upper level for military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, etc.

- o Appropriate assignment of SOC Course Category Codes from the SOC Handbook Transferability Tables. The SOC Degree Program Handbooks can be obtained from the SOC web site at: www.soc.aascu.org should you wish to learn more about the course transfer guarantees among SOC network institutions.

IMPORTANT NOTE: When you are ready to seek admission into this degree program, please send the completed enrollment form (found on the college's web page) to the USCG Institute. The registrar will send the college or university an official USCG transcript, a copy of the degree plan (if one was developed through the USCG Institute and was identified on your transcript request), and a ready-for-signature SOC Student Agreement (when signed by a college official, becomes a contract for degree completion).

Credit for all courses you have taken must be reflected on official transcripts sent directly to this college from the administrative offices of the colleges you previously attended. This degree plan is often used for information purposes by college counselors pending receipt of the official transcripts from the source colleges.

This degree plan is not intended to compete with your local college or university. Keep in mind, you are allowed to transfer in a significant amount of the degree requirements to this institution. As such, credit from local colleges, college level examination programs, or advanced military training may be applied to this degree. You may also complete the courses necessary from this college either in residence (on campus or possibly on a military base at a campus extension in the Education Center) or through distance delivery of the courses. If you have questions, please contact the college counselor or your advisor listed at the bottom of this Degree Plan.

DEGREE PLAN LEGEND:

SH = Semester hours
 VOC = Vocational, not relative to an academic degree
 LL = Lower Level, i.e. courses at the Freshman/Sophomore level
 UL = Upper Level, i.e. courses at the Junior/Senior level
 GL = Graduate Level (sometimes recommended by ACE for very complex courses)
 [#] such as [EN024A] or [EN024B] = SOC Course Category Codes*
 {#} such as {DANTES Code = 01.02.03} = DANTES Academic Codes **

* SOC Course Category Codes: Service members Opportunity Colleges (SOC) is a consortium of over 1,600 accredited colleges and universities seeking to provide degree opportunities to the military. Over 170 of these institutions participate in network degree programs developed for the Army, Navy, Marine Corps, and Coast Guard. A SOC course category number beside a course from one of these institutions, such as [EN024A] or [EN024B] for English Composition, indicates that courses from other

degree program institutions with the same code may be taken to satisfy the degree requirement. See the SOC Degree Programs Handbooks at <http://www.soc.aascu.org/>

** DANTES Academic Codes: The Defense Activity for Non-Traditional Education Support (DANTES) publishes the DANTES Independent Study Catalog (DISC) annually, which lists more than 6,000 courses from dozens of regionally accredited colleges and universities. Because this is a degree from a SOC affiliated college, the academic residency requirements are limited, thereby allowing students to transfer in a significant portion of the degree, as mentioned above. If the course you desire to take is not offered by this institution when you want to take it, consider the opportunities the courses in the DISC present. For more information, visit http://www.dantes.doded.mil/dantes_web/distancelearning/disc/front/cont.htm Keep in mind, you should always check with the counselor or academic advisor at this institution before enrolling in a course listed in the DISC to ensure it will be accepted in transfer toward this degree.

Thomas Nelson Community College: General Information

The 1966 session of Virginia's General Assembly in active legislation established a statewide system of comprehensive community colleges. A local committee investigated the need for and feasibility of a community college for the region and requested the State Board for Community Colleges to approve an application to establish Thomas Nelson Community College. A site almost in the population center of the Peninsula area was selected and a local board of advisors was appointed. After the site was purchased by the City of Hampton, construction was begun on the initial phase of four buildings in August 1967, and the cornerstone was laid December 5, 1967. Construction was completed, and 1,232 students began classes on September 20, 1968. Thomas Nelson Community College graduated its first class of students with associate's degrees on June 13, 1970.

Thomas Nelson Community College is a two-year institution of higher education established as a part of a statewide system of community colleges. It primarily serves the residents of the cities of Hampton, Newport News, Poquoson, and Williamsburg, and the counties of James City and York. The college operates under policies established by the State Board for Community Colleges and with the guidance of the Thomas Nelson Community College Board.

Thomas Nelson Community College provides comprehensive arts and sciences transfer and occupational/technical programs, and workforce development that prepare students for success in the global community and workforce of the future. Through local partnerships, and by providing life-long learning opportunities, cultural activities, as well as intellectual and problem-solving resources, TNCC also enhances the quality of life for citizens in its region.

Virginia's community colleges offer a number of different ways to learn and earn academic credit. Some distance learning options do not require attendance in a traditional class on campus, while others combine the use of online learning with traditional classroom meetings. Distance learning courses provide flexibility and convenience in reaching your educational goals. However, distance learning courses are academically rigorous. They are best suited for self-motivated students who are comfortable with independent learning, students who can budget their time effectively, and students who possess good study skills.

TNCC is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

Tuition for in-state students \$68.00 per credit hour, for out-of-state students tuition is \$214.00 per credit hour. (subject to change)

For more information regarding this degree, please contact:

Edie Gilbert
Transfer Credit Specialist
Thomas Nelson Community College
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<http://www.tncc.edu>

Evaluation completed by: Charles Morrison

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