



# Northumberland High School Plan of Study

Student Name: \_\_\_\_\_  
School: [Northumberland High School](#)  
Date: \_\_\_\_\_

**Cluster: Transportation, Distribution, & Logistics      Pathway: Facility & Mobile Equipment Maintenance**

*This Career Pathway Plan of Study (based on the Interactive Media Pathway of the Information Technology Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Mathematics	Science	Social Studies/ Science	Other Required Courses Recommended Electives Learner Activities	Recommended Career and Technical Courses Source: Administrative Planning Guide <a href="http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/">www.doe.virginia.gov/VDOE/Instruction/CTE/apg/</a>	SAMPLE – Occupations Relating to This Pathway: <a href="http://www.doe.virginia.gov/VDOE/Instruction/CTE/careerclusters/">www.doe.virginia.gov/VDOE/Instruction/CTE/careerclusters/</a> <a href="http://www.careerclusters.org">www.careerclusters.org</a> <a href="http://www.cteresource.org/cpg/">www.cteresource.org/cpg/</a>	
<b>Graduation Requirements: <a href="http://www.doe.virginia.gov/2plus4in2004/index.shtml">http://www.doe.virginia.gov/2plus4in2004/index.shtml</a></b>									
<b>MIDDLE</b>	7	Language Arts & Reading	Pre-Algebra or Algebra I	Life Science	Social Studies	Health/P.E. Art or Chorus	<b>NOTE: Use state course titles</b>	<b>Mobile Equipment</b>  ► Service Mechanic for Boat Dealers ► Service Mechanic for Marine Repair Business ► Service Mechanic for Marine Engineer Assistants ► Bush and Truck Mechanic ► Diesel Engine Specialist ► Motorboat Mechanic ► Service Manager ► Service Writer ► Ship Mechanic and Repairer ► General Marine Technicians	
	8	English 8	Algebra I or Geometry	Physical Science	Civics & Economics	Health P.E. Art, Chorus, or Foreign Language	No CTE Courses offered at Middle School for this pathway		
<b>Career Assessment:</b> Administration of a career assessment instrument is appropriate at the middle school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product).									
<b>SECONDARY</b>	9	English 9	Algebra I or Geometry or Algebra II	Earth Sciences	World Geography	Health & PE (2 years) Foreign Language (3 years)	<b>DE Marine Service Tech I (8750) - NNTC</b>		
	10	English 10	Geometry or Algebra II or Math Analysis	Biology	World History 10 (Advance Diploma)	Other Electives to Complement Pathway (Core Academic and CTE):	<b>DE Marine Service Tech II (8751) - NNTC</b>		
	11	English 11	Algebra II or Math Analysis or RCC MTH 163/270 or MTH 164/290 or Computer Math (Standard Diploma)	Chemistry (Advance Diploma) or Ecology (Standard Diploma)	US/VA History or AP US/VA History	Accounting (6320) – (DE) RCC ACC 1	Keyboarding (6152) – (DE) RCC AST 101/102		
	12	English 12 or AP English 12 or (DE) RCC Eng 111/112	Math Analysis or RCC MTH 163/270 or MTH 164/290	Physics (Advance Diploma) or Adv Biology (Advance Diploma) or AP Biology (Advance Diploma)	US/VA Government or AP US/VA Government	Business Management (6135 – (DE) RCC BUS 100//236	Computer Information Systems (6612)- CIS (DE) RCC ITE 100/130		
<b>High school courses in the pathway offered locally for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)</b>									
<b>List related certifications/credentials approved by VDOE and offered locally:</b> <a href="http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/">http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/</a> (Go to Section 9.)  ABYC - American Boat & Yacht Council Virginia Workplace Readiness Assessment (NOCTI) IC3 Certification (Certiport)						<b>Additional Learning Opportunities:</b> CTSO Organization(s): <input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> FEA <input type="checkbox"/> HOSA <input checked="" type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA			
<b>Work-Based Learning:</b> <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input checked="" type="checkbox"/> Internship <input checked="" type="checkbox"/> Mentorship <input checked="" type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project <input type="checkbox"/> Student Apprenticeship									
<b>Postsecondary:</b> Placement Assessments such as COMPASS & SAT II						College Entrance Exams such as ACT & SAT			
<b>SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY</b>									
Individual plans must include locally agreed upon courses at the postsecondary level (See page 2)									

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	<b>Pathway</b>	<b>Associate Degree, College Certificate, or Apprenticeship</b>	<b>Bachelors Degree</b>	<b>Postgraduate Degree</b>
	Marine Trades	Career Studies Certificate		

College: [Rappahannock Community College](#)

School Division(s): [Northumberland County Public Schools](#)

**Postsecondary:** Placement Assessments such as COMPASS & SAT II

<b>POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined</b>	<b>Semester</b>	<b>English</b>	<b>Mathematics</b>	<b>Science</b>	<b>Social Studies</b>	<b>Required Courses or Recommended Electives</b>			
	<b>POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE.</b>								
	Year 1 1 <sup>st</sup> Semester	ENG 111 College Composition I (Optional)	Math 146 Elementary Statistics (Optional)			MAR 130 Marine Maintenance Mechanics	MAR 156 Vessel Fitting And Rigging	MAR 157 Small Outboard Engine Service	
	Year 1 2 <sup>nd</sup> Semester					MAR 158 Inboard Engine Service	MAR 159 Large Outboard Engine Service	MAR 165 Stern Drive Transmission Service	
	Year 2 1 <sup>st</sup> Semester								
	Year 2 2 <sup>nd</sup> Semester								
<b>College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)</b>									

**Related Industry Certifications Available:**  
 Applicants must meet the general admission requirements of the college.  
 Students are required to earn a C or better in all courses to be awarded the Marine Trades Career Studies Certificate.

**Additional Suggested Learning Opportunities:**  
**Work-Based Learning:**  
 Cooperative Education     Internship     Mentorship  
 Job Shadowing     Service Learning Project     Registered Apprenticeship

**UNIVERSITY**  
 University/College: Rappahannock Community College  
 Degree or Major: Marine Trades  
 Number of Articulated CC Credits: 23

Notes: