4-Year High School
STEM Pathway
(Grades 9–12)

# MEESA
MARITIME ENGINEERING AND ENVIRONMENTAL STUDIES ACADEMY

An Old Dominion
University College
Partnership Lab School

ODU Center *for* Educational Innovation *and* Opportunity

NEWPORT NEWS PUBLIC SCHOOLS

813 Diligence Drive, Suite 100 • Newport News, VA 23606

## Program Overview: Launch Your Engineering & Maritime Career Starting in Grade 9!

Are you an 8th grader looking ahead to an exciting, high-demand career in engineering, environmental technology, or global logistics? The Maritime Engineering and Environmental Studies Academy (MEESA) is an innovative College Partnership Laboratory School established collaboratively by Old Dominion University (ODU) and Newport News Public Schools. MEESA offers a connected four-year high school journey that begins with cohort experiences in ninth grade and culminates in immersive, half-day university and industry coursework during your junior and senior years.




## The 4-Year MEESA Progression

Because MEESA is structured to keep students grounded in their zoned high school community while accessing university-level STEM opportunities, students never have to choose between a specialty academy and traditional high school life:

| Grade Level | Daily Location | Coursework & Strategy | MEESA Experiences & Certifications |
|---|---|---|---|
| **Grade 9** Preparation | 100% at Zoned High School | Take core requirements: English 9, Math, Science, Social Studies, World Language, and Health & PE I. | **Quarterly Signature Experiences:** Cohort-building, industry interactions, and design challenges. |
| **Grade 10** Readiness | 100% at Zoned High School | Take core requirements: English 10, next Math, Science, Social Studies, World Language, Health & PE II, and Economics & Personal Finance. | **Quarterly Signature Experiences:** Continuing exclusive cohort activities to prepare for Lab School. |
| **Grade 11** Foundational Immersion | **Half-Day:** Zoned High School<br>**Half-Day:** MEESA Campus | Take core classes at your home school (English 11, Math, Social Studies, World Language, Science).<br>**At MEESA:** Maritime Engineering Explorations I, Global Logistics I, Principles of Technology I | **Industry Tools:** Industry aligned curriculum and technology<br>**Certifications:** Autodesk AutoCAD & Certified Logistics Associate (CLA) |
| **Grade 12** Advanced Capstone | **Half-Day:** Zoned High School<br>**Half-Day:** MEESA Campus | Finish core requirements at your home school (English 12, Social Studies, Math).<br>**At MEESA:** Maritime Engineering Analysis II, Global Logistics II, Principles of Technology II (Physics Lab Credit) | **College Credit:** ODU credits (6 credits) Guaranteed admission to ODU*<br>**Certifications:** Autodesk Inventor & Certified Logistics Technician (CLT)<br>**Workplace Internship & Senior Defense** |

## What Will You Gain? Elevate. Empower. One NNPS.

In alignment with the strategic plan of Newport News Public Schools, MEESA elevates high school STEM learning into real-world career mastery. Students graduate with meaningful credentials, university credit, and workplace readiness:

- **Guaranteed admission to ODU** upon successful completion of MEESA coursework and a GPA of 2.5 or higher*.
- **Direct University Credit:** Earn college credits directly from Old Dominion University, establishing an official college transcript before high school graduation.
- **Industry-Recognized Certifications:** Gain high-demand workforce credentials, including Autodesk AutoCAD (Junior year) and Autodesk Inventor (Senior year) for engineering, alongside the Certified Logistics Associate (CLA) and Certified Logistics Technician (CLT) for global logistics.
- **Authentic Fieldwork & Portfolios:** Build an engineering portfolio showcasing tangible design projects, data analysis, and professional internships that open direct pathways to bachelor's degree programs, technical apprenticeships, and high-wage careers.









## Who is eligible?

We are now accepting applications for both incoming freshmen (current 8th graders) and incoming juniors (current 10th graders) who who are Virginia residents and are interested in exploring maritime engineering, logistics, and environmental science. Students are selected by a computer lottery. Transportation is provided between your zoned high school and the MEESA campus. **8th Graders:** By applying now, you secure your spot in the MEESA cohort, granting you access to 9th/10th grade Quarterly Signature Experiences and ensuring your high school counselor strategically schedules you for 11th-grade Lab School readiness.

## Application & Contact Information

How to Apply: Submit an electronic Magnet School Application by the December deadline at www.nnschools.org/magnet.

### Contact Us

**MEESA**
**Maritime Engineering and Environmental Studies Academy**
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odu.edu/ceio/lab-schools/meesa

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Learn more about Newport News Public Schools at
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