



The Maritime Academy of Toledo

2009-2010 Curriculum Design

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The Maritime Academy of Toledo Graduation/Degree Requirements

College Prep/World of Work

Language Arts	4 Credits
Mathematics	4 Credits
Science	3 Credits
Social Sciences	3 Credits
Foreign Language	2 Credits
Physical Education	½ Credit
Performing Arts/Fine Arts	1 Credit
Health	½ Credit
Technology	1 Credit
Introduction To Maritime Studies	1 Credit
Electives	3 Credits
Total Needed for High School Diploma/Degree	23 Credits

And

Senior Project: Ethics/Internship/Research (Year IV Language Arts)

Ohio Graduation Test Reading, Writing, Math, Science, Social Studies



Maritime Technology Path

Language Arts	4 Credits
Mathematics	4 Credits
Science	3 Credits
Social Sciences	3 Credits
Physical Education	½ Credits
Performing Arts/Fine Arts	1 Credits
Health	½ Credit
Introduction To Maritime Studies	1 Credit
Maritime Technology Pathway (Deck or Engine)	8 Credits
Total Needed for High School Diploma/Degree	25 Credits

And

Senior Project: Ethics/Internship/Research (Year IV Language Arts)

Ohio Graduation Test Reading, Writing, Math, Science, Social Studies

Sailing Into The Future --- Powered By Knowledge and Skills

Course of Study By Subject

YEAR	English: 4 Credits	YEAR	Science: 3 Credits
1	English 9: Sea Classics of the World and the Great Lakes	1	Science: Marine Biology or Physical / Earth Science
2	English 10: Marine Narratives: Basic Composition	2	Science: Physical / Earth Science or Marine Biology
3	English 11: Environmental Writing	3	Science: Environmental, Marine and Atmospheric Chemistry, or Elective
4	English 12: Senior Capstone Research Project		Electives: TBA
	Electives: TBA		
YEAR	Math: 4 Credits	YEAR	Foreign Language: 2 Credits
1	Math: Algebra 2 if not yet taken	1	Foreign Language I: French, Spanish, or Sign Language
2	Math: Algebra or Geometry	2	Foreign Language II: French, Spanish, or Sign Language
3	Math: Geometry or Algebra 2	3	Foreign Language III: French, Spanish, or Sign Language
4	Math Algebra 2 if not yet taken or Trig/Calculus	4	Foreign Language IV: French, Spanish, or Sign Language
	Electives: TBA		Electives: TBA
YEAR	Social Studies: 3 Credits	YEAR	Performing Arts / Fine Arts: 1 Credit
1	Social Studies: Maritime World Studies	1	Performing Arts / Fine Arts
2	Social Studies: American / Maritime History & Admiralty Law	2	Performing Arts / Fine Arts Elective
3	Social Studies: American Government/Finance		Course Options include Steel Drums, Dance, Gymnastics, Drawing, Painting, Pottery,
	Electives: TBA		
YEAR	Physical Education: . 1 Credit	YEAR	Technology: 1 Credit (Computers, Simulators, Distance Learning, Videography)
1	Physical Education: Swimming	1	Technology or Demonstrated Proficiency
2	Health		
	Electives: Advanced Swimming, Life Saving; Karate; Boxing, Aerobics	Year	Introduction To Maritime Studies: 1 credit
		1	Introduction To Maritime Studies

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The Maritime Academy of Toledo Curriculum Focus for Grades 5-12

Marine-related themes are integrated into traditional subjects through developmentally appropriate practices (lecture, projects, and hands-on real life experiences) that directly support Ohio Grades 5-12 Outcomes and Standards, Ohio Achievement Tests for Grades 5-8 and the Ohio Graduation Test. These themes include but are not limited to the following:



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| 1. Marine Biology | 11. History of the Great Lakes and Seas | 24. Ports Of Call |
| 2. Marine Science | 12. Literature of the Great Lakes and Seas | 25. Bridge Administration |
| 3. Environmental Science including Pollution Control | 13. Music of the Great Lakes and Seas | 26. Islands, Canals, And Locks |
| 4. Coastline Habitats And Ecosystems and Wildlife Management | 14. Healthy Living On/Near The Water | 27. Dredging And Channels |
| 5. Meteorology | 15. Economics of the Great Lakes | 28. Rules Of The Road (Sea) and Maritime Law |
| 6. Astronomy | 16. Marine Art, Architecture, and Woodworking | 29. Homeland And Port Security including Local Police, Federal, And Military Service On U.S. Waterways |
| 7. GPS - Satellite Communications And Navigation | 17. Civilian Marine/Maritime Careers | 30. Maritime History Of The State And Region |
| 8. GIS - Chart Mapping And Reading | 18. Leisure and Sports | 31. Local, State, Regional And World Cargo / Transportation Systems |
| 9. Robotics/Remotely Operated Water Vehicles | 19. Lighthouses and Shipwrecks | |
| 10. Coast Guard JROTC and Navy Sea Cadets | 20. Internship and Mentorship Programs | |
| | 21. Marine Culinary Careers | |
| | 22. Search And Rescue | |
| | 23. Water Vessels | |

The Maritime Academy of Toledo Marine Environment (Workstations and Labs for Grades 5-12)

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|---------------------------------------|--------------------------------|--|
| ▪ Navigation Simulator Lab | ▪ Chemistry Lab | ▪ Music Workstation |
| ▪ Radar Simulator Lab | ▪ Physics Lab | ▪ Communications Language Arts Workstation |
| ▪ Engine Room Simulator Lab | ▪ Marine Biology Lab | ▪ Social Studies Workstation |
| ▪ Global Positioning System Lab (GPS) | ▪ Fine Art/Sculpting Lab | |
| ▪ Geographical Info Lab (GIS) | ▪ Woodwork Lab | |
| ▪ Remotely Operated Vehicle Lab (ROV) | ▪ Architecture Lab | |
| ▪ Ecology Lab | ▪ History Workstation | |
| ▪ Weather Lab | ▪ Library/Resource Workstation | |

***Sailing Into the Future— Powered
By Knowledge & Skills***

The Maritime Academy Curriculum Design for Grades 5-8

The Maritime Academy Curriculum Design for grades five through eight incorporates Ohio Outcomes across the following curriculum standards:

The Arts
Dance
Drama / Theater
Music / Creative Expression
Visual Art

Language Arts
Acquisition of Vocabulary
Reading
Writing
Research
Communications

Mathematics
Numbers
Measurement
Geometry
Patterns
Algebra
Data Analysis
Probability

Science
Earth Space and Science
Life Science
Physical Science
Scientific Inquiry
Scientific Ways of Knowing

Physical Education
Health
Sports

Social Studies
History
People in Societies
Geography
Economics
Government
Citizenship Rights & Responsibilities

Technology
Educational Programs
Data Entry

The Marazon Approach for Grades 5-12

The Maritime Academy of Toledo focuses on your child's academic growth as determined by the Ohio Department of Education and your child's developmental growth as determined by The Marazon Approach. The academic focus is on Ohio's K-12 standards and outcomes across traditional subject areas such as math, language arts, science, social studies, etc. The developmental focus of the Marazon Approach supports children's interests, strengths, and needs across six domains: affective, social, creative, cognitive, language, and physical and their specifically related, 96 developmental goals. The role of the teacher in a Marazon School ensures that all staff focus on children acquiring new skills and concepts as well as focus on the development of the child—the whole child.



Teachers and support staff put *The Marazon Approach* into practice using the **Marazon Analytical Database**. The Marazon Database tallies, summarizes, analyzes, and reports on each child's progress related to Ohio's standards and outcomes. The Database enables teachers, parents, and administrators to have instant snapshots of each child's progress on a daily, weekly, monthly, quarterly, and annual basis.

Parents take on a very special role in the Marazon Approach. They act as consultants to their child's teacher, using **The Parent Handbook of Child Growth, Development, and Learning**. This resource helps parents learn about their child's development and make recommendations about what they want their child's teacher to support in their child.