

NA&ME Curriculum Effective Fall 2018

A typical study plan for a Naval Architecture and Marine Engineering student at the University of Michigan.

Year 1

Math 115 ⁴	Chem 125/126 and 130 or Chem 210/211 ⁵	Eng 100 Intro. to Engineering ⁴	Intellectual Breadth or free electives ⁴
Math 116 ⁴	Physics 140/141 ⁵	Eng 101 Intro. To Computers & Programming ⁴	Intellectual Breadth or free electives ⁴

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Year 2

Math 215 ⁴	NA 235 or ME 235 Marine Thermodynamics I ³	Physics 240/241 ⁵	NA 270 Vessel/Platform Design ⁴	
Math 216 ⁴	NA 210 or ME 211 Intro to Marine Structures ³	ME 240 Dynamics and Vibrations ⁴	NA 280 Probability for Marine Engineers ³	Intellectual Breadth or free electives ²

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Year 3

Summer – Internship/Research Experience

NA 320 Marine Hydrodynamics I ⁴	NA 331 Marine Power and Energy I ³	NA 340 Marine Dynamics I ⁴	Intellectual Breadth or free electives ⁴	
NA 310 Marine Structures I ⁴	NA 321 Marine Hydrodynamics II ⁴	NA 332 Marine Power and Energy II ³	NA 370 Conceptual Vessel/Platform Design ³	Intellectual Breadth or free electives ²

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Year 4

Summer – Internship/Research Experience

NA 470 Foundation of Ship Design ⁴	Technical Elective I ⁴ * - 3 credit	Select from NA 410, NA 423, NA 431*, NA 440	NA 492 Marine Eng. Lab ³	Intellectual Breadth or free electives ⁵
NA 461 Marine Structures Construction ³	Technical Elective II ⁴ * - 3 credit	Select from NA 401, 403, 410, 416*, 423, 424, 431*, 440, 483*, 562; NAXXX*, Math 450, 454*, 471*	NA 475 Capstone Design Project ⁴	Intellectual Breadth or free electives ⁴

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Total Credits = 128

Intellectual Breadth required = 16

Free Electives required = 9-11