Fall 2015

NAME 1170

Leila Marshall
University of New Orleans

NAME 1170 – INTRO TO NAVAL ARCHITECTURE Fall 2015

INSTRUCTOR
Leila Marshall, P.E.
Office Hours – By appointment only

CATALOG DESCRIPTION
An overview of the maritime industry, marine transportation systems, maritime organizations; types and purposes of commercial and naval ships, advanced marine vehicles and floating offshore structures; basics of ship building, operation, safety, maintenance and environmental protection; various disciplines of naval architecture; introduction to major ship systems.

CLASS SCHEDULE
Monday & Wednesday 5:00 – 6:15 pm SC1001

PREREQUISITES
MATH2107 OR 2111 – Calculus and Analytic Geometry (co-requisite)

REFERENCE TEXT
Ship Knowledge – A Modern Encyclopedia, K. Van Dokkum.

LEARNING OBJECTIVES

This course is designed to give a general overview and introduction to the field of Naval Architecture and Marine Engineering. Specific objectives are as follows:

- To introduce students to the field of Naval Architecture and Marine Engineering (NAME) including career activities, benefits and opportunities.
- To provide an introduction to the maritime industry and its importance not only to Louisiana but also to the global economy/transportation industry.
- To overview the various major types of marine vehicles.
- To introduce students to fundamental aspects of Naval Architecture (including weights, floatation and stability, hull form, load lines, loading, structures, etc.)
- To introduce students to important aspects of marine engineering (including various machinery and mechanical systems).
- To introduce students to offshore structures.
- To overview fundamental aspects of scale model testing.
- To introduce students to various aspects of Maritime politics, law, safety, and environmental protection.
- To overview various aspects of ship construction, repair, maintenance, and operation.

GRADING SCALE

Test 1	20%
Test 2	20%
Final Exam	20%
Homework, Participation/Attendance	40%

NAME standard grading schedule:
A > 91%
B 79% - 90.9%
C 67% - 78.9%
D 52% - 66.9%
F < 51.9%

TESTS

Tests will be announced at least a week in advance and will be open book. The Final Exam will be comprehensive.

ATTENDANCE POLICY

Attendance is mandatory. Allowances may be made for genuine, unforeseen emergencies.

HOMEWORK POLICY

There are 7 to 8 homework assignments planned. Late homework is accepted with a 10% penalty per class period.

ACADEMIC INTEGRITY

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty Refer to the Student Code of Conduct for further information. The Code is available online at http://www.studentaffairs.uno.edu.

ADA COMPLIANCE

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to http://www.ods.uno.edu.

COURSE TOPICS

- NAME Preview
- Nomenclature, Geometry & Terminology
- Marine Industry Overview
- Ship & Offshore Platform Types
- Overview of Ship Design
- Weights and Moments
- Floatation and Hydrostatics
- Fundamental Aspects of Stability
- Laws, Regulations & Load Lines
- Model Testing
- Forces on a Ship/Structural Design
- Machinery
- Ship Construction
- Ship Repair & Maintenance
- Intro to Ship Motion & Maneuverability
- Ship Safety & Environmental Protection
- Maritime Law, Policy & Regulations