MASE 319 - Fundamentals of Naval Architecture Design I  

**COURSE INFORMATION**

**Fundamentals of Naval Architecture Design I - MASE 319**  
**Fall 2014**

**Course Instructor**
Masoud Hayatdavoodi, Ph.D.  
Office: MERC 117  
Instructional Assistant Professor  
E-mail: masoud@tamu.edu  
Maritime Systems Engineering Department  
Phone: 409-740-4486

**Class Schedule**
- **Lecture:** Monday, Wednesday 10:00 AM to 10:50 AM at Powell Marine Engineering Comp 148
- **Laboratory:** Friday, 8:00 AM - 10:50 AM at Powell Marine Engineering Comp 178

**Office Hours**
Monday: 01:00PM-03:00PM,  
Tuesday: 01:00PM-03:00PM,  
Wednesday: 01:00PM-03:00PM,  
And by appointment.

**Grading**
- Assignments: 20%
- Midterm Exam: 30%
- Project: 20%
- Final Exam: 30%

**Grading Scale**
- A \( \geq 90\% \)
- B \( \geq 75\% \)
- C \( \geq 60\% \)
- D \( \geq 50\% \)
- F < 50%

**Textbook**
- **Required:**  
- **Alternative Reference Books:**  
Course Communications
Course-related material, along with class communications, are held on eCampus through Howdy portal. Students are expected to check and use the course webpage on regular basis.

Course Description

Learning Outcomes
The course is intended to familiarize students with hydrostatics, hydrodynamics and some structural considerations of ships, offshore platforms and submarines. Upon completion of this course, students should be able to discuss ship geometry, Buoyancy and Stability, Damage Stability, Ship Resistance, Ship Strength and Structure and Ship Powering. Students will practice hull line drawing, read design standards of classification societies, will use Sesam software, and will conduct laboratory experiments on ship hydrostatics and hydrodynamics. Students will experience prototype-scale experiments through multiple field trips. This course supports ABET criteria a-e, g-k, and criteria 4, 7 and 9.

Prerequisites
CVEN311, CVEN345, ENGR221, MASE214. Junior or Senior Classification or approval of instructor. Enrollment in OCSE Major Degree Sequence.

Attendance and Make-up Policies
Information concerning absences is contained in the University Student Rules Section 7 http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf.

The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Late arrivals count as absences. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45). If the absence is excused, the student will be provided an opportunity to make up any quiz, exam or other work that contributes to the final grade. The evaluation method will be decided by the instructor. The evaluation date is agreed upon by the student and instructor.

Academic Integrity
An Aggie does not lie, cheat or steal, or tolerate those who do.
For additional information visit: http://www.tamug.edu/HonorSystem.

Americans with Disabilities Act (ADA)
The Americans with Disabilities Act (ADA) is a federal non-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this law requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit: http://www.tamug.edu/counsel/Disabilities.html.
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**Final Exam:** Monday, December 15, 2014, 8:00 AM to 10:00 AM