

**Course Title:** DMEI 4399 Introduction to Shipbuilding

**Instructor:** Alley Butler

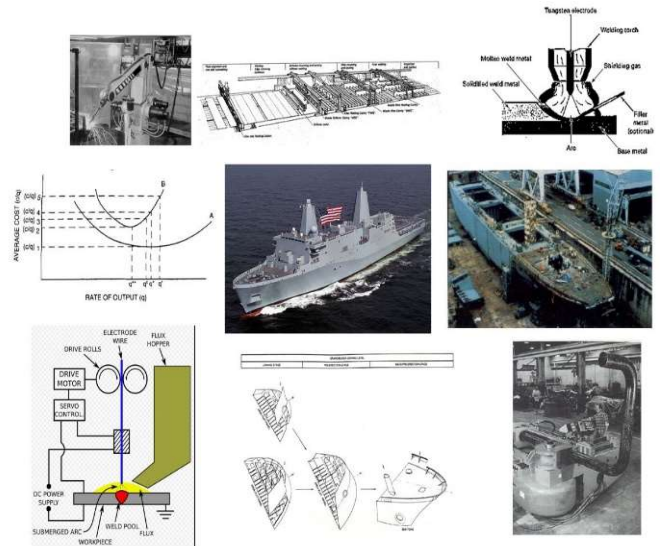
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**Course Description:**

One of the largest products routinely produced today is the seagoing ship, and this course provides an overview of the shipbuilding process. Shipbuilding has developed over the centuries from an art to a highly organized, scientific process to construct of the world's most complex products. Organizing and executing and managing the complexity while making a profit is a challenging process, and the hears of this course. Some history is provided for the US and international shipbuilding industry which sets the stage for the current competitive environment. Further, the course spends time on work breakdown structure, panel line operation, pipe bending, welding, module construction, hull and superstructure formation, shipyard layout, and ship launching processes. Some cases studies are provided. Graduate students are required to complete a shipyard project

**Topics covered:**

- Overview of the industry and competitive environment
- Process discussion for welding and pipe bending
- Panel line operation
- Ship module production
- Ship hull and superstructure fabrication
- Shipyard layout and organization
- Guest lectures and case studies from industry and national labs



**For more information about this course, Contact:**

Dr. Alley Butler at [alley.butler@utrgv.edu](mailto:alley.butler@utrgv.edu)

**For more information about the I-DREAM4D Education Program, Contact:**

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**For Internship opportunity, visit:**

<https://idream4d.org/interns/>

**To be offered in  
Spring 2021!**

Upon accomplishing this course, students will be prepared for potential interns and jobs at companies such as:



Course offered by faculty members at:

