<table>
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<th>Outcome</th>
<th>Marketable Skills</th>
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| **Demonstrate technical knowledge in Applied Marine Engineering** | • Apply mechanical engineering principles to solve problems  
• Apply electrical principles to address engineering challenges  
• Design components of engineering systems |
| **Apply engineering knowledge to operational systems** | • Troubleshoot malfunctioning engineering systems  
• Specify appropriate parameters for completion of engineering tasks  
• Read engineering schematics |
| **Practice Ethical Engineering Behavior** | • Recognize the need for ethical behavior  
• Understand the Engineering Code of Ethics  
• Be able to apply modern standards and codes to engineering systems |
| **Communicate Effectively** | • Effectively communicate in an oral setting  
• Draft and edit technical engineering documents  
• Present data in an oral or visual format |
| **Collaborate in interdisciplinary teams** | • Act as a leader or role player in a team  
• Share in group responsibilities to accomplish a task  
• Complete integrate system design in engineering teams |
| **Apply modern tools of the trade** | • Use computer and automation tools to address issues in Naval Architecture and Marine Engineering  
• Solve complex mathematical systems related to engineering using engineering software  
• Use modern Computer Aided Design software to design systems |
| **Practice Social Responsibility and International Competence** | • Interact with other ethnic groups and nationalities in a professional environment  
• Understand national and international maritime environment restriction |
A student who graduates from Texas A&M with a baccalaureate degree will have acquired the knowledge and skills necessary to:

**Master the depth of knowledge required for a degree**, including the ability to:
- Articulate disciplinary and interdisciplinary theories, concepts, principles, skills, and practices;
- Synthesize knowledge across courses and other experiences; and
- Apply knowledge from core curriculum courses, discipline-based courses, and other experiences in a range of contexts to solve problems and make decisions.

**Demonstrate critical thinking**, including the ability to:
- Evaluate, analyze, and integrate information from a variety of sources;
- Use appropriate strategies and tools to represent, analyze, and integrate information; and
- Develop critical, reasoned positions.

**Communicate effectively**, including the ability to:
- Demonstrate effective oral communication skills (which could include the use of languages such as American Sign language for those who do not communicate orally);
- Demonstrate effective writing skills;
- Demonstrate effective nonverbal communication skills (which could include appropriate use of performance, design, or representations such as maps, tables, and graphs);
- Listen actively and critically;
- Present work effectively to a range of audiences; and
- Effectively communicate original and creative ideas.

**Practice personal and social responsibility**, including the ability to:
- Practice ethical leadership;
- Recognize an ethical dilemma and apply rational decision-making in order to address it;
- Choose ethical courses of action in research and practice;
- Acknowledge and address the consequences of one’s own actions; and
- Engage in local and global civic activities.

**Demonstrate social, cultural, and global competence**, including the ability to:
- Live and work effectively in a diverse and global society;
- Articulate the value of a diverse and global perspective; and
- Recognize diverse economic, political, cultural, and religious opinions and practices.

**Prepare to engage in lifelong learning**, including the ability to:
• Exhibit the skills necessary to acquire, organize, reorganize, and interpret new knowledge;
• Show proficiency in current technologies and the ability to adapt to emerging technologies;
• Recognize and participate in activities that enhance wellness of body, mind, and spirit;
• Formulate a plan of personal goals for continued professional growth; and
• Demonstrate intellectual curiosity.

**Work collaboratively**, including the ability to:
• Participate effectively in teams;
• Consider different points of view; and