About the Program

The University of Miami has a long history in Ocean Engineering. The University of Miami’s College of Engineering together with the Rosenstiel School of Marine and Atmospheric Science offered a Master of Science degree in Ocean Engineering. The program and others of its kind in the nation, were popular in the 1970s and 1980s, but fell into decline during the 1990s as national circumstances and priorities changed. In particular, opportunities in ship building and underwater acoustics, two key sectors in the field, diminished significantly. The activity in the field at UM has been primarily a PhD focused program since the late 1990s.

However, in the past decade, several major incidents – the 2010 Deep Water oil spill in the Gulf of Mexico, a series of devastating hurricanes in 2003-2005 and the Japan Tsunami have turned our collective attention to the vulnerability of the nation’s coastal infrastructure. Furthermore there have been significant demands for an increased emphasis on port and harbor security in the post- September 11 era. These events have led to a revival in the field of Ocean Engineering, albeit with a new focus and broader scope. The revival of the MS in Ocean Engineering was approved by the President of the University of Miami was approved for the fall semester of 2014. We are accepting applications for program beginning on November 1, 2013.

Ocean Engineering concentrates on problems associated with human interaction with the ocean.

1. The ocean engineer combines competence as an engineer with both a practical experience in and theoretical understanding of the ocean.
2. The Ocean Engineering program, offered jointly with the Rosenstiel School of Marine and Atmospheric Science, is intended to lay the foundation of this competence, experience and understanding.
3. The areas of faculty specialization in this program include coastal engineering, off-shore engineering, structures, turbulence, computer modeling of fluids, acoustics, remote sensing and maritime security.