

INGE 5185

Course Title INTRODUCTION TO COASTAL ENGINEERING

Course Description This course is an introduction to the field of coastal engineering. The first part of the course will deal with waves, including linear wave theory, refraction, shoaling and wave breaking. The dynamics of tides, currents, and sea level variations will be discussed. The effects of these processes on sediment transport, the different types of coastal structures and their behavior in the complex nearshore environment will also be studied. Students will then learn about numerical models and how they are used to predict hydrodynamic conditions and sediment transport. The course will conclude with an overview of the legal aspects of engineering projects in the coastal zone.

Credit Hours 3

Course Options

Exchange.....	No
Special Topic.....	No
Type.....	Normal
Offering Semester.....	Always
Students can take this course multiple times.....	No

Grading Schema Passing Grade D

Requisites INGE 4015 or authorization of the Director of the Department

Course Syllabus