SUR 4934 / SUR6934 – Marine Geomatics
Spring 2014

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ON-LINE REFERENCES:
US-ACE Manuals: http://140.194.76.129/publications/eng-manuals/ (See – Hydrographic Surveying)
GPS World: www.gpsworld.com/gpsworld/
NGS: www.ngs.noaa.gov

GRADING: Final grade will be based on the following breakdown

SUR4934
20% Attendance
20% Labs
40% Quizzes 1-4 (10% each)
20% Team Project

SUR6934
15% Attendance
15% Labs
35% Quizzes 1-4 (10% each)
15% Team Project

20% Term paper

LATE POLICY: Due dates will be announced when assignment is given.
A deduction of 25% will be made for each day it is late.

GOALS AND OBJECTIVES: The goal of this course is to provide the students with an understanding
of hydrographic surveying and mapping as it pertains to the practice of Geomatics. The students will
learn the concepts of Datums, tides, coordinate systems, marine positioning, sonar systems, bottom
classification, future trends. Students will learn by software simulation and field exercises.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: "Students requesting classroom
accommodation must first register with the Dean of Students Office. The Dean of Students Office will
provide documentation to the student who must then provide this documentation to the Instructor when
requesting accommodation."

HONESTY POLICY: All students are required to abide by the Academic Honesty Guidelines,
which have been accepted by the University.
(See: http:// (www.dso.ufl.edu/studentguide/studentrights.php)
<table>
<thead>
<tr>
<th>DATE</th>
<th>LECTURE</th>
<th>LAB</th>
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<tbody>
<tr>
<td>10 JAN</td>
<td>Intro to Marine Geomatics</td>
<td>SPKR # 1 (Trimble Navigation)</td>
</tr>
<tr>
<td>17 JAN</td>
<td>Coordinate Systems / Datums</td>
<td>Basic Electronics</td>
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<tr>
<td>24 JAN</td>
<td>Positioning Techniques</td>
<td>Interfacing / SPKR# 2 (USACE JAX) EXAM 1</td>
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<tr>
<td>31 JAN</td>
<td>Marine Software Overview</td>
<td>Intros: HYPACK / HYDROpro</td>
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<tr>
<td>7 FEB</td>
<td>Single Beam Surveys</td>
<td>Single Beam (SB) System Intro</td>
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<tr>
<td>14 FEB</td>
<td>Multibeam Surveys</td>
<td>SB System Support / SPKR # 3 (SOS) EXAM 2</td>
</tr>
<tr>
<td>21 FEB</td>
<td>FIELD TRIP # 1</td>
<td>USACE JAX Dredge System Intro</td>
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<tr>
<td>28 FEB</td>
<td>Scanning Sonars &amp; Other</td>
<td>Dredge System Support</td>
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<tr>
<td>7 MAR</td>
<td>SPRING BREAK</td>
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<tr>
<td>14 MAR</td>
<td>FIELD TRIP # 2*</td>
<td>A NICKEL MORE*</td>
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<tr>
<td>21 MAR</td>
<td>ROVs &amp; Inspections</td>
<td>Optical Tracking Intro / SPKR # 4</td>
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<tr>
<td>28 MAR</td>
<td>Team Project Assignments</td>
<td>Optical Tracking Support EXAM 3</td>
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<tr>
<td>4 APR</td>
<td>Team Project Presentations</td>
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<tr>
<td>11 APR</td>
<td>Team Project Presentations / Course Review</td>
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<tr>
<td>18 APR</td>
<td>EXAM 4*</td>
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* LN not available