

<b>Week</b>	<b>Lecture Topics</b>	<b>Lab Topics</b>
<b>1</b>	<b>I Introduction</b> General description of waves and surf	
<b>2</b>	<b>II Deep Water Theory and Prediction</b> Review linear wave theory Wave generation by wind (Phillip's & Miles' theories)	<b>Lab I</b> Analysis Hurricane Wave Measurements
<b>3</b>	Wave breaking ('Whitecaps') Equilibrium spectra (Pierson-Moskowitch, JONSWAP)	
<b>4</b>	Nonlinear wave-wave interactions Radiative transfer equation	<b>Lab IIa</b> Monterey Bay (3 Groups) Field Data Collections (Oct. 18,19)
<b>5</b>	<b>III Operational Global Models</b> WAM and WaveWatchIII Source term parameterizations	
<b>6</b>	CLASS PRESENTATIONS (deep water topics)	<b>Lab IIb</b> Monterey Bay Data Analysis
<b>7</b>	Numerical implementation and validation	
<b>8</b>	<b>IV Shallow Water Theory and Prediction</b> Shoaling, refraction and wave breaking	<b>Lab IIIa</b> WaveWatchIII Model Introduction
<b>9</b>	<b>V Operational Regional Models</b> SWAN	
<b>10</b>	Surf-zone models	<b>Lab IIIb</b> Hindcast Fetch-Limited Sea
<b>11</b>	CLASS PRESENTATIONS (shallow water topics)	