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Department of Civil Engineering
2014 Summer Semester
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Aquatic Environmental Science Outline #06: Redox Potential

1. Dissolved Oxygen
 - Oxygen availability
 - Solubility of oxygen
 - Saturation of dissolved oxygen

 2. Oxidation and Reduction
 - Definition of oxidation and reduction
 - Oxidant and reductant
 - Redox potential (ORP, E_h)
 - pE-pH diagram
 - Chemical equilibrium model
 - Major biological processes in water
 - Aerobic and anaerobic digestion

 3. Exercise
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