

**Climate Change Science and Economics**  
Course learning goals

Taught through:

<p>Ethical reasoning Decision making</p>	<p>Distributive Justice Capabilities approaches Conflict management Ethical theories, vocabulary and paradigms Indigenous concerns</p>
<p>Environmental Science</p>	<p>Terminology Greenhouse gasses Ocean acidification Sea level rise Microbial oceanography Greenhouse gas effect on calcifying organisms Scientific modeling Weather systems Modeling systems Geology Hydrology</p>
<p>Economic Theories and Principles Economic Analysis</p>	<p>Intertemporal equity Micro Macro Economic modeling, including Pareto efficiencies Marginal abatement costs Economics of environment and energy, including externalities computation Cost Benefit analysis and its limitations Risk Assessment and vulnerabilities analysis Carbon tax, cap and trade, command and control Sustainable Capitalism Local economies movement</p>
<p>Public policy</p>	<p>Disaster management Risk and Vulnerabilities assessment Uncertainty Economic policy Energy policy Stakeholders Relevant local, state, national and International governmental structures</p>

<p>Written and oral communication Team management skills Research</p>	<p>Final Adaptation policy White paper Press release Presentations Role plays and scenarios Inter-disciplinary group work</p>
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