

PLANO DE ENSINO			
IDENTIFICAÇÃO		OBJETIVO GERAL	
<p>Curso: Mestrado e Doutorado em Ciência e Tecnologia Ambiental</p> <p>Disciplina: Pesca Marinha: Sistema Sócio-Ecológico</p> <p>Modulo:</p> <p>C/H teórica: 32</p> <p>Créditos: 2</p> <p>José Angel Alvarez Perez</p> <p>(Bloco E – Sala 108, Ramal 7714)</p>		<p>Compreender a atividade pesqueira como um sistema sócio-ecológico, fundamentado nos serviços ambientais oferecidos pelos ecossistemas marinhos e na dinâmica das motivações humanas para o uso de recursos naturais.</p>	
EMENTA			
<p>O uso dos recursos pesqueiros marinhos: histórico e perspectivas futuras. As forças motoras da pesca marinha e sua dinâmica espacial e temporal (<i>Driver</i>). A pesca pressionando os ambientes marinhos (<i>Pressure</i>). O estado e funcionamento do ambiente marinho (<i>State</i>). O impacto da pesca sobre o ambiente marinho (<i>Impacts</i>). Reações aos impactos da pesca marinha (<i>Response</i>)</p>			
CONTEÚDOS	CH	AValiação	REF.
<p>UNIDADE 1 – O uso dos recursos pesqueiros marinhos: histórico e perspectivas futuras.</p> <ol style="list-style-type: none"> 1. A pesca marinha como vetor de segurança alimentar no passado e futuro. 2. A pesca sustentável: significados, obstáculos 3. A pesca como Sistema Sócio-Ecológico (SSE) e a abordagem DPSIR (<i>Driver-Pressure-State-Impacts-Response</i>) 4. Debate: Qual a importância da continuidade da pesca marinha extrativa para as sociedades? Quem se beneficia? Quais são os riscos? 	04	Exercício teórico-prático	
<p>UNIDADE 2 – As forças motoras da pesca marinha e sua dinâmica espacial e temporal (<i>Driver</i>).</p> <ol style="list-style-type: none"> 1. As motivações sociais e econômicas da pesca marinha. 2. Estratégias espaço-temporais de uso de recursos pesqueiros: especialistas x generalistas 3. A expansão das áreas de pesca e interações com outras atividades antrópicas nos ambientes marinhos. 4. Debate: Quem tem direito sobre o uso dos espaços e serviços marinhos? 	04	Exercício teórico-prático	
<p>UNIDADE 3 – A pesca pressionando os ambientes marinhos (<i>Pressure</i>)</p> <ol style="list-style-type: none"> 1. Remoção de organismos marinhos. <ol style="list-style-type: none"> a. Capturas. b. Mortalidade indireta (desassociada das capturas). c. Quantificação regional e global da mortalidade de organismos gerada pela pesca 2. Descartes <ol style="list-style-type: none"> a. Subsídios Alimentares Antropogênicos Previsíveis (PAFS) 	08	Exercício teórico-prático	

<ul style="list-style-type: none"> 3. Pegada Espacial <ul style="list-style-type: none"> a. Áreas afetadas pela ação de aparelhos de pesca b. Modificação física dos ambientes de fundo 4. Pegada Ecológica <ul style="list-style-type: none"> a. Produção primária 5. Poluição <ul style="list-style-type: none"> a. Descarte de resíduos inorgânicos b. Perda de aparelhos de pesca c. Emissão de gases de efeito estufa 6. Debate: As demandas e os custos ambientais da pesca marinha: vale a pena? 			
<p>UNIDADE 4 – O estado e funcionamento do ambiente marinho (<i>State</i>).</p> <ul style="list-style-type: none"> 1. Ecossistemas Marinhos, o “capital natural” e os “serviços de provisão” 2. Os processos biofísicos controlando a atividade pesqueira (<i>bottom-up, top-down, wasp-waist</i>) 3. A importância da biodiversidade marinha 4. Debate: Os oceanos em transformação: a pesca ameaçada pelos efeitos decorrentes das mudanças climáticas. 	04	Exercício teórico-prático	
<p>UNIDADE 5 - O impacto da pesca sobre o ambiente marinho (<i>Impacts</i>)</p> <ul style="list-style-type: none"> 1. Impactos sobre populações marinhas <ul style="list-style-type: none"> a. Estado dos Estoques Pesqueiros b. Interferências nas histórias de vida e habitats essenciais c. Métodos de Avaliações de Estoques 2. Impactos sobre comunidades/ecossistemas marinhos <ul style="list-style-type: none"> a. Alteração na estrutura das comunidades e fluxo de energia b. Indicadores de integridade das comunidades utilizadas pela pesca c. Modelos de Equilíbrio de Biomassa 3. Impactos sobre habitats <ul style="list-style-type: none"> a. Degradação de habitats marinhos b. Ecossistemas Marinhos Vulneráveis 4. Debate: Causas e consequências da sobrepesca e impactos ecossistêmicos. 	04	Exercício teórico-prático	
<p>UNIDADE 6 – Consequências sociais e repostas da sociedade (<i>Response</i>)</p> <ul style="list-style-type: none"> 1. Respostas do poder público: <ul style="list-style-type: none"> a. Manejo pesqueiro b. Planejamento Espacial Marinho 2. Respostas da sociedade: <ul style="list-style-type: none"> a. Exigências do mercado consumidor b. Adaptação: atividades alternativas c. Blue Economy 3. Debate: Gestão pesqueira funciona? Fragilidades e tendências 	04	Exercício teórico-prático	
<p>UNIDADE 7 – Estudo de Caso</p>	04	Exercício teórico-prático	

1. Seleção de uma área de pesca costeira em SC e caracterização das forças motoras (<i>Drivers</i>)			
2. Pressão exercida pela pesca sobre a região marinha utilizada (<i>Pressure</i>)			
3. Caracterização do estado do ecossistema marinho na região utilizada (<i>State</i>).			
4. Delimitação dos impactos ambientais causados pela pesca na região marinha utilizada (<i>Impacts</i>)			
5. Consequências sociais e respostas da sociedade afetada pela pesca na área escolhida (<i>Response</i>)			

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