

國立清華大學課程大綱【格式】

<1120324 版>

科號		組別		學分	2	人數限制	100
上課時間	RnR5			教室	LSII 109		
科目中文名稱	動物行為學						
科目英文名稱	Animal Behavior						
任課教師	郭崇涵						
擋修科目	無			擋修分數	無		

請勾選	此科目對應之系所課程規畫所欲培養之核心能力 Core capability to be cultivated by this course	權重（百分比） Percentage
<input checked="" type="checkbox"/>	自我瞭解與溝通表達 Self-awareness, expressions & communication	20%
<input checked="" type="checkbox"/>	邏輯推理與批判思考能力 Logical reasoning & critical thinking	30%
<input checked="" type="checkbox"/>	科學思維與反思 Scientific thinking & reflection	30%
<input type="checkbox"/>	藝術與人文涵養 Aesthetic & humanistic literacy	<input type="text"/> %
<input type="checkbox"/>	資訊科技與媒體素養 Information technology & media literacy	<input type="text"/> %
<input checked="" type="checkbox"/>	多元觀點與社會實踐 Diverse views & social practices	20%

一、課程說明	The course aims to inspire students' interest in the field of animal behavior. In the first part, we will introduce the foundations of animal behavior from various disciplines, including neurobiology, genetics, ecology, and evolutionary biology. In the second part, we will delve into specific behaviors such as foraging, antipredatory, mating, and aggression, across different species.
二、指定用書	Principle of animal behavior, 3 rd edition by Lee Alan Dugatkin

三、參考書籍																																																																													
四、教學方式	1. 主要由任課老師講解學習內容 2. 期末會要求學生撰寫兩頁研究計畫																																																																												
五、教學進度	<table border="1" data-bbox="419 521 1353 1485"> <thead> <tr> <th>Week</th> <th>Date</th> <th>Topic</th> <th>Chapter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2/22</td> <td>Principles of Animal Behavior</td> <td>1</td> </tr> <tr> <td>2</td> <td>2/29</td> <td>The Evolution of Behavior</td> <td>2</td> </tr> <tr> <td>3</td> <td>3/7</td> <td>Hormones and Neurobiology</td> <td>3</td> </tr> <tr> <td>4</td> <td>3/14</td> <td>Molecular Genetics and Development</td> <td>4</td> </tr> <tr> <td>5</td> <td>3/21</td> <td>Learning</td> <td>5</td> </tr> <tr> <td>6</td> <td>3/28</td> <td>Cultural Transmission</td> <td>6</td> </tr> <tr> <td>7</td> <td>4/4</td> <td>春假</td> <td></td> </tr> <tr> <td>8</td> <td>4/11</td> <td>Sexual Selection</td> <td>7</td> </tr> <tr> <td>9</td> <td>4/18</td> <td>Mating Systems</td> <td>8</td> </tr> <tr> <td>10</td> <td>4/25</td> <td>Aggression and play</td> <td>15 & 16</td> </tr> <tr> <td>11</td> <td>5/2</td> <td>Kinship</td> <td>9</td> </tr> <tr> <td>12</td> <td>5/9</td> <td>cooperation</td> <td>10</td> </tr> <tr> <td>13</td> <td>5/16</td> <td>Foraging and personality</td> <td>11 & 17</td> </tr> <tr> <td>14</td> <td>5/23</td> <td>Antipredator Behavior</td> <td>12</td> </tr> <tr> <td>15</td> <td>5/30</td> <td>Habitat Selection, Territoriality, and Migration</td> <td>14</td> </tr> <tr> <td>16</td> <td>6/6</td> <td>Final</td> <td></td> </tr> <tr> <td>17-18</td> <td></td> <td>Writing research proposal</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Week	Date	Topic	Chapter	1	2/22	Principles of Animal Behavior	1	2	2/29	The Evolution of Behavior	2	3	3/7	Hormones and Neurobiology	3	4	3/14	Molecular Genetics and Development	4	5	3/21	Learning	5	6	3/28	Cultural Transmission	6	7	4/4	春假		8	4/11	Sexual Selection	7	9	4/18	Mating Systems	8	10	4/25	Aggression and play	15 & 16	11	5/2	Kinship	9	12	5/9	cooperation	10	13	5/16	Foraging and personality	11 & 17	14	5/23	Antipredator Behavior	12	15	5/30	Habitat Selection, Territoriality, and Migration	14	16	6/6	Final		17-18		Writing research proposal					
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六、成績考核	<p>Mid-term report (30%): 選擇並閱讀一篇動物行為相關之研究論文，整理成互動式海報型式。</p> <p>Final exam (20%): 選擇與申論題，範圍著重在本學期所教授之觀念。</p> <p>Final report (50%): 自己構思一個跟動物行為相關的研究題目，提出假設並設計實驗，撰寫出兩頁的研究計畫。</p>																																																																												
七、AI 使用規則	有條件開放，請註明如何使用生成式 AI 於課程產出																																																																												
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