

5.00 credits


**This learning unit is not open to incoming exchange students!**

Teacher(s)	Servais Olivier ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	<ul style="list-style-type: none"> <li>• Why develop critical thinking skills?</li> <li>• Identify your preconceptions</li> <li>• Decoding the discourse</li> <li>• Evaluating the quality of sources</li> <li>• Understanding the scientific process</li> <li>• Analyse data</li> <li>• Be aware of the limits of science</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <ul style="list-style-type: none"> <li>• Decoding the mechanisms at work behind our stereotypes</li> <li>• Identify how the staging of content can manipulate us</li> <li>• Determine the reliability of information and its source</li> <li>• Evaluate and interpret the quality of a scientific approach</li> <li>• Discuss the place and limits of science today</li> </ul>
Evaluation methods	Oral exam after completing the online course (for both sessions)
Teaching methods	Online teaching - The registration to the MOOC « Penser critique » is organised on edX.org - see the link <a href="https://bit.ly/Louv22x2022">https://bit.ly/Louv22x2022</a> (same access as those of your virtual office)
Content	<p>Module 1: Why develop critical thinking skills?</p> <p>1.1 Critical thinking, a new phenomenon?</p> <p>1.2 Critical thinking and transdisciplinarity</p> <p>Module 2: Identifying your preconceptions</p> <p>2.1 Stereotypes, biases and preconceptions: what are we talking about?</p> <p>2.2 Different types of bias</p> <p>2.3 Distancing and deconstruction</p> <p>Module 3: Decoding speech</p> <p>3.1 The influence of sound</p> <p>3.2 The influence of the image</p> <p>3.3 The influence of the non-verbal</p> <p>3.4 Words and speech</p> <p>Module 4: Evaluating the Quality of Sources</p> <p>4.1 Information sources</p> <p>4.2 The intentionality of information sources</p> <p>4.3 Reliability of an information source</p> <p>4.4 Scientific publications</p> <p>Module 5: Understanding the Scientific Process</p> <p>5.1 The different types of reasoning</p> <p>5.2 The scientific process</p> <p>5.3 Critical research approach</p> <p>5.4 Pseudo or non scientific approach</p> <p>Module 6: Analyzing Data</p> <p>6.1 The qualitative approach</p> <p>6.2 Samples, surveys and probabilities</p> <p>6.3 Interpreting data</p>

	<p>6.4 Distinguish between causality and correlation</p> <p>Module 7: Recognizing the Limits of Science</p> <p>7.1 Scientific consensus</p> <p>7.2 Human and technological limitations of the scientific process</p> <p>7.3 Diversity of scientific approaches</p> <p>7.4 The place of science in Western society</p>
Inline resources	All resources are online
Faculty or entity in charge	PSAD