

**Docente:** Bruce D. Marron  
**Ciclo:** 25-3  
**Materia:** Inglés Avanzado (IX, X)  
**Licenciatura:** Interpretación y Traducción

**HW\_02 Communication Theory; Information Theory; Summarizing Scientific Papers; Vocab  
(Convert to 10 pt scale)**

Criteria	Excellent	Satisfactory	Needs Improvement
<b>Communication Theory and Info Theory: Five Questions (Task 1)</b>	Provides clear, accurate, and thorough explanations of Shannon's communication process; demonstrates deep understanding of redundancy, randomness, and information content; explains Zipf's Law and generative language models clearly with relevant examples.	Provides generally accurate explanations but lacks some depth or clarity; references readings but with minor inaccuracies or omissions.	Explanations are incomplete, unclear, or contain significant misconceptions; minimal or no use of readings.
<b>Summary of Scientific Paper (Task 2)</b>	Produces a well-structured, concise, and accurate summary capturing key points from abstract, introduction, and conclusion; uses own words effectively.	Summary covers main ideas but lacks clarity or depth; some paraphrasing but may rely too much on original text.	Summary is incomplete, inaccurate, or mostly copied; does not convey the paper's main arguments effectively.
<b>Vocabulary Development and Translation (Task 3)</b>	Provides precise English definitions and accurate Spanish translations for all 72 vocabulary words; demonstrates understanding of word meanings in context.	Provides mostly correct definitions and translations with minor errors; some words may be missing or inaccurately translated.	Definitions and translations are mostly incorrect or missing; shows lack of effort or understanding.
<b>Document Formatting and Presentation</b>	Fully adheres to modified APA style (single-spaced, 0.5 inch margins, 12-pt Times New Roman, double-sided printing if possible); formatting is consistent and professional; assignment saved and submitted as required.	Mostly adheres to formatting guidelines with minor errors; submission meets basic requirements but lacks polish in some areas.	Formatting guidelines are not followed; submission is incomplete or not saved/submitted as required.
<b>Writing Quality and Style</b>	Writing demonstrates excellent control of English grammar, syntax, and style; errors are rare and do not impede understanding; language is appropriate for university-level work.	Writing shows adequate control of grammar and style with some errors that do not seriously affect comprehension; language is generally appropriate.	Frequent grammar and style errors that interfere with clarity and readability; language usage is below university expectations.

**Assignment:**

HW\_02 [Due: 22 May 2025]

--- Task 1

With reference to the readings on communication and information theory (documents 02a, 02b, and 02c in the 1P folder) and our class discussions, please answer the following questions:

1. How does Claude Shannon view the process of communication?
2. In Indo-European languages, a message can be defined as a sequence of words where each word has a frequency or probability of occurrence. Shannon discovered a way to measure the information content of a string of words (message). Explain why completely redundant messages or completely random messages contain virtually no information.
3. Based on information theory, what types of messages contain the maximum amount of information?
4. What is Zipf's Law?
5. Give an example of a generative model for languages.

--- Task 2

Read the paper, "Trajectories of the Earth System in the Anthropocene" (03\_Steffen-etal\_Trajectories-Earth-System-in-the-Anthropocene). By focusing on the Abstract, Introduction, and Conclusions sections of the paper, write a one+-paragraph summary of the entire paper in English.

--- Task 3

Provide English definitions and a Spanish word translation for all of the words in the document, Vocab\_01.txt: a list of 72 words from Readings 01, 02, 03.

--- Task 4

Read Chapters I through XI of "Charlotte's Web." Be prepared to contribute next week to a Socratic-style seminar that focuses on these chapters. In the seminar we will

- i) analyze highlights and important events as plot elements,
- ii) analyze characters and their motivations  
[Character maps that include their traits, relationships, and key events]
- iii) evaluate the stylistic elements used by the author (genre), and
- iv) critique the author's choices and style

NB. Ultimately, you will write a full critique of this novel.