Docente: **Bruce D. Marron**
Ciclo: **25-2**
Materia: **Terminología Especializada en Documentos de Tecnología e Ingeniería**
Curso: **IT0627**
Licenciatura: **Interpretación y Traducción**
Horario: **Jueves 16:00 – 19:00**
Grupo: **6A2**

HW_07.1 Information Theory Rubric (convert to 10 point scale)

Criteria	3 Points	2 Points	1 Point
Summary / Reading Comprehension (Task 1)	Provides a comprehensive, well-structured summary of both MacKay excerpts with clear main ideas, demonstrating deep understanding and critical analysis	Offers a basic summary of the excerpts with some key points, but lacks depth or comprehensive insight	Minimal or superficial summary that fails to capture the core concepts of the texts
Terminology Translation (Task 2)	Accurately defines all 64 terms in both English and Spanish, showing precise understanding and linguistic precision	Defines most terms correctly, with minor inaccuracies or incomplete translations	Provides limited or incorrect definitions across multiple terms
Writing Quality, Accuracy, and Presentation	Exhibits exceptional technical accuracy in scientific and mathematical terminology, showing deep understanding of information theory concepts	Displays general technical understanding with some minor inaccuracies	Shows significant gaps in technical understanding and precise terminology

Assignment

HW_07.1 [Due: 27 Mar 2025]
The standard format applies ONLY to Task 1.
--- Task 1
Read the following two excerpts from Sir David MacKay's, "Information Theory, Inference, Learning Algorithms,"

i) MacKay_Sex.pdf
ii) MacKay_CodeBreaking.pdf

Do your best to get the gist (main ideas) of each excerpt and write a summary of each excerpt in English.

--- Task 2
Define the following terms in both English and Spanish. Add any new words to your dictionary.

TERMS (64)

allele
alpha, beta, gamma, delta
asexual reproduction
asymmetrical
Bayesian statistics
bigram
binary
camouflaged
catalyst
code breaking
collating
conjecture
constraint
crossover
cypher
deleterious
deterministic
differential
diploid
Dirichlet process
discernible
DNA
ecosystem
empirical
emulate
enzymatic
eugenic
false-negative
false-positive
fitness (evolution)
Gaussian distribution
genome
genotype
haploid
histogram
homogeneous
logarithm
Mandelbrot set
mutation
nonlinear

nucleotide
parameter
parthenogenesis
permutation
phenotype
precursor
probability
probability distribution
progeny
qualitative
quantitative
quantized
recombination (genetics)
self-replicating
sexual reproduction
spurious
statistics
symmetry
synchronized
transcription (genetics)
translation (genetics)
trigram
unicellular