

## Homework 5 (due Fri, Oct 9)

---

1. Consider the distance matrix below. It shows  $p$ -distances between four taxa.
2. Calculate corrected distances using the Jukes-Cantor distance correction.
3. Calculate unweighted (ordinary) least-squares tree score for the tree  $((A:0.05,C:0.07):0.12,B:0.04,D:0.08)$ . Show your work.

	A	B	C	D
A	0.00	0.19	0.10	0.25
B	0.19	0.00	.25	0.11
C	0.10	0.25	0.00	0.25
D	0.25	0.11	0.25	0.00