HCS6349 - Intelligent Systems Design

HCS 6349 (ACN 6349) Intelligent Systems Design (3 semester credit hours) Probabilistic and statistical modeling tools for the design and evaluation of artificially intelligent deterministic and stochastic nonlinear dynamical systems for the purpose of building computational models in the fields of neuroscience, psychology, and artificial intelligence. Topics include probabilistic interpretations of nonlinear dynamical system models and asymptotic mathematical statistical theory for parameter estimation, model selection, specification analysis, and hypothesis testing. Prerequisites: (Linear algebra, multivariable calculus, and ST AT 3341 or equivalent) and BBSC majors only and department consent required. (3-0) T (2016-02-06 00:28:10)