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and developing formal mathematical models to describe the brain's processing of information. The aims of the group are to increase the community's understanding of computational and theoretical approaches to studying the brain, to share ongoing research, and to foster collaborations, especially between ...

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as theoretical neuroscience or mathematical neuroscience) is a branch of neuroscience which employs mathematical models, theoretical analysis and abstractions of the brain to understand the principles that govern the development, structure, physiology and cognitive abilities of the nervous system. In theory, computational neuroscience would be a sub-field of theoretical neuroscience which employs computational simulations to validate and solve the mathemati

Computational neuroscience - Wikipedia
Mathematical Neuroscience. This course is intended for mathematicians interested in neuroscience and mathematically-inclined computational neuroscientists. The emphasis will be primarily on the analytical treatment of neuroscience-inspired models and algorithms. The aim of the course is to equip students with a

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solid technical and conceptual background to tackle research questions in mathematical neuroscience.

Mathematical Neuroscience - Center for Theoretical and ...

Computational neuroscience is mostly the application of mathematical methods to problems in neuroscience. So, for example, if you are talking about modelling the activity of neurotransmitters release and flow, you would encounter differential equations.

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Home - Redwood Center for Theoretical Neuroscience

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