Network has become a key approach to understanding systems of interacting objects, unifying diverse phenomena observed in nature, society and technology. This course will cover the mathematics of networks, their applications to information, sciences and technology, as well as other fields such as biology and sociology. The goal is to equip students with conceptual tools that can help them understand complex systems that emerge in both nature and man made systems.

Network science is a fundamentally computational science. You are not required to have strong programming skills coming into the course, but the homework and your final project will involve computational work. You will be expected to build these skills as the course goes on through independent work and through hands-on lectures. Students are free to work in any computer language/network software they feel most comfortable.

Target Audience:

Junior/Senior undergraduate students or graduate students who are interested in this area.

Evaluation Methods:

Class projects. homework assignments.