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*Nexus: Small Worlds & the Groundbreaking Science of Networks* M. Buchanan

**Week of 8/31:**

Introduction  
Small worlds & networks

**Week of 9/7:**

**Labor Day**  
*Wednesday is the last day to Add/Drop/Audit*  
Graphs & their computer representations  
Diameter & Connectivity

**Week of 9/14:**

Random graphs (Erdős & Rényi)

**Week of 9/21:**

Generation & properties

**Week of 9/28:**

Mathematical certainties about random graphs

**Week of 10/5:**

More on random graphs  
*Wednesday is the pass/fail deadline*

**Week of 10/12:**

**Columbus Day**  
*Tuesday follows Monday schedule*  
Social networks & and power companies  
Granovetter, Strogatz & Watts

**Week of 10/19:**

Generation & properties of Strogatz-Watts networks  
*Wednesday marks mid-semester*  
**Midterm exam**

**Week of 10/26:**

The Internet, the web  
Power law distributions of vertex degrees

**Week of 11/2:**

Generation & properties of Barabási-Albert networks

**Week of 11/9:**

Mathematical results

**Veterans' Day**

*Thursday is the withdrawal deadline*

**Week of 11/16:**

And more mathematical results

**Week of 11/23:**

**Paper draft due Monday**

Related topics

**Thanksgiving**

**Week of 11/30:**

Related topics

**Week of 12/7:**

Student presentations

**Week of 12/1:**

*Monday is last class*

Student presentations