

G80.2221 – Fall 2002  
Mathematical Tools for Neural Science

**Background Poll**

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Department: \_\_\_\_\_

Credit or Audit: \_\_\_\_\_

For each of the topics in the table, indicate

- Your current **knowledge** of the topic:
  - 1 - never heard of it,
  - 2 - know a little, but not enough to use it,
  - 3 - once knew it reasonably well, but have forgotten it,
  - 4 - know it well enough to use it
- The **importance** of the topic to you (leave blank if you don't know):
  - 1 - not important
  - 2 - moderately important
  - 3 - very important
  - 4 - critically important

Topic	knowledge	importance
least-squares regression		
principal components analysis		
Fourier transform		
passive RC membrane model		
maximum likelihood estimation		
signal detection theory		
bootstrapping		
models for neural spike generation		
reverse correlation analysis		

Are there any other topics you'd like to see covered in this course?

Do you have any computer programming experience? Have you ever used MatLab?