Physics 209 Survey

Have you taken any previous courses in electrodynamics or special relativity, and, if so, at what level?

_____
_____
_____

Please describe your level of familiarity with the topics below:

Topic	*Unfamiliar*	*Could use a review*	*Familiar*
Maxwell's equations			
Special Relativity			
Electric and magnetic dipoles			
Lagrangians and Hamiltonians			

Please describe your level of familiarity with the following math topics:

Topic	*Unfamiliar*	*Could use a review*	*Familiar*
Vector calculus (grad, div, curl)			
Complex analysis (poles, residues)			
Spherical Harmonics			
Bessel functions			

What fields of research are you interested in:

Theory

☐ Astrophysics, ☐ Atomic, Molecular & Optical,

☐ Biophysics, ☐ Condensed Matter & Materials Sciences,

☐ Particle Physics/String Theory, ☐ Plasma & Nonlinear Dynamics,

Experiment

☐ Astrophysics, ☐ Atomic, Molecular & Optical,

☐ Biophysics, ☐ Condensed Matter & Materials Sciences,

☐ Particle Physics/String Theory, ☐ Plasma & Nonlinear Dynamics,

☐ Other: _____

What are your main expectations from this course?
(For example, how much emphasis would you put on: *a deeper understanding of the theory, techniques for solving Maxwell's equations, applications, experiments, modern theoretical ideas, etc.*)

Any additional comments or suggestions?

Thanks!