

PHYSICS 190 – PRACTICAL CONSIDERATIONS FOR A CAREER IN PHYSICS

Fall – 2012

Friday 2:10-4:00 p.m. Phy/Geo 416

COORDINATOR: Prof. Pat Boeshaar
Phy/Geo 233 PHONE: 4-9246
boeshaar@physics.ucdavis.edu

Requirements: Preparation/Submission of a CV and Personal Statement by last day of Term

Discussion Topics (presentations throughout the term)

- What Do I Want...a B.S., an M.S. or a Ph.D.? A job? With whom?
- Do \$\$\$ Matter to Me? Salaries based on Degree level – A.I.P. Statistics
- Careers with a B.S., M.S. or Ph.D. in Physics...not just aiming for a professorship
Internships in Industry and Experience
- Undergraduate Research Opportunities
At UC Davis (including Senior Thesis/Honors Thesis Option), NSF REU sites, etc
Qualifications
- Letters of Recommendation, GRE's, Personal Statements
- What do You Expect to Pay for Grad School? Applying for Assistantships & Fellowships:
Resources Available
- Personal Interviews

The presenters may be subject to change!

September 23

- Introduction to Seminar and Overview of Research Areas in Physics
- Your Expectations
- Who Are You? Preparing a Personal Resume, Personal Statement

- How to Pick a Graduate Program and What to Expect When you Get There

- Letters of Recommendation

Professor Rena Zieve

Undergraduate Research Opportunities
At UC Davis (including Senior Thesis/Honors Thesis Option), NSF REU sites, etc

October 5

Professor Michael Mulhearn – Experimental Particle Physics (CERN & Fermi lab)

October 12

Professor Daniel Cebra (Nuclear Physics) - all that you need to know about Graduate School Applications

Professor Manuel Calderon – Experimental Nuclear Physics

October 19

Professor Tony Tyson – Observational Cosmology/Astrophysics & Bell Labs
Career in Academia or Industry?

Professor Rena Zieve (Low Temperature Physics/Condensed Matter)

October 26

Professor Markus Luty – High Energy/Particle Physics Theory

Professor Jim Crutchfield - Patterns, Chaos & Complexity:
The Physics of Information and Computation

November 2

Professor Marusa Bradac – Observational Cosmology and Dark Matter

Professor Chris Fassnacht - Need to get away from it all for a while? Is the Peace Corps an Option?
Observational Radio Astrophysics

November 9

Professor Robert Svoboda - Experimental Neutrino Physics Underground

November 16

Professor Nicholas Curro – Condensed Matter Experiment/High Temperature Superconductors & Nuclear Magnetic Resonance Research

Professor Richard Scalettar – Theoretical Condensed Matter Physics

November 30

Professor Steve Carlip – General Relativity Theory

December 7

Professor David Webb - Physics Education, Real Research is Done Here also!
Jessica Scheimer (Physics major Graduated 2011) now teaching in Sacramento
PLUS.....Additional research areas not previously discussed