Physics Orientation- Day 10 Panel discussion – ask now or regret later! Welcome guests from Intel!

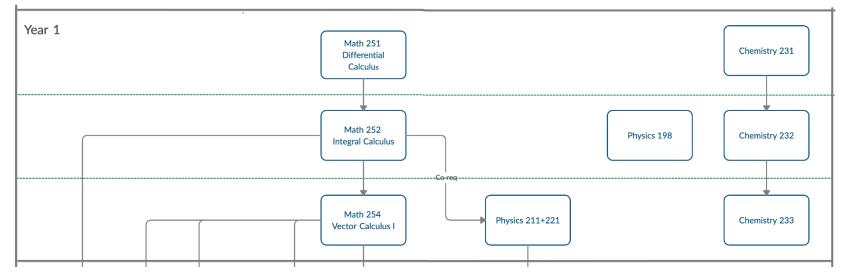


198 Orientation Summary

- Day 1 -- Meet your department and future colleagues
- Day 2 -- Welcome form College of Science and the Career Center
- Day 4 -- Internships and Jobs
- Day 5 -- Research Opportunities; Making yourself competitive.
- Day 6 -- Upper division physics. Panel of paradigms students

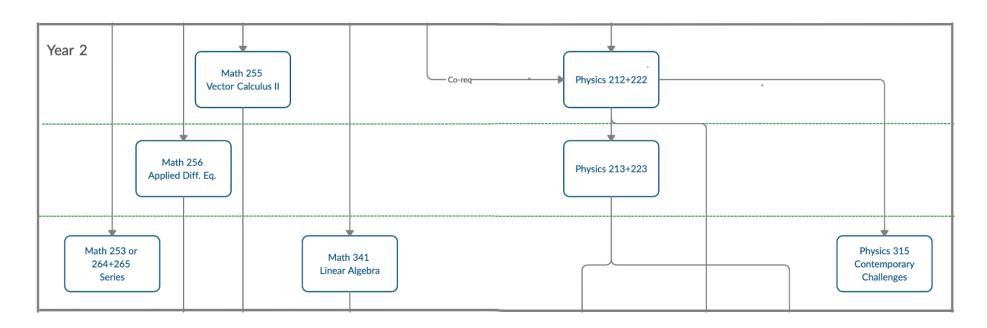
The Lower-Division Curriculum

	Fall	Winter	Spring
Year 1		PH 198 (1)	PH 211 (4) + PH 221 (1)
	MTH 251 (4)	MTH 252 (4)	MTH 254 (4)
	CH 231 (4)	CH 232 (4)	CH 233 (4)
	СН 261 (1)	CH 262 (1)	CH 263 (1)

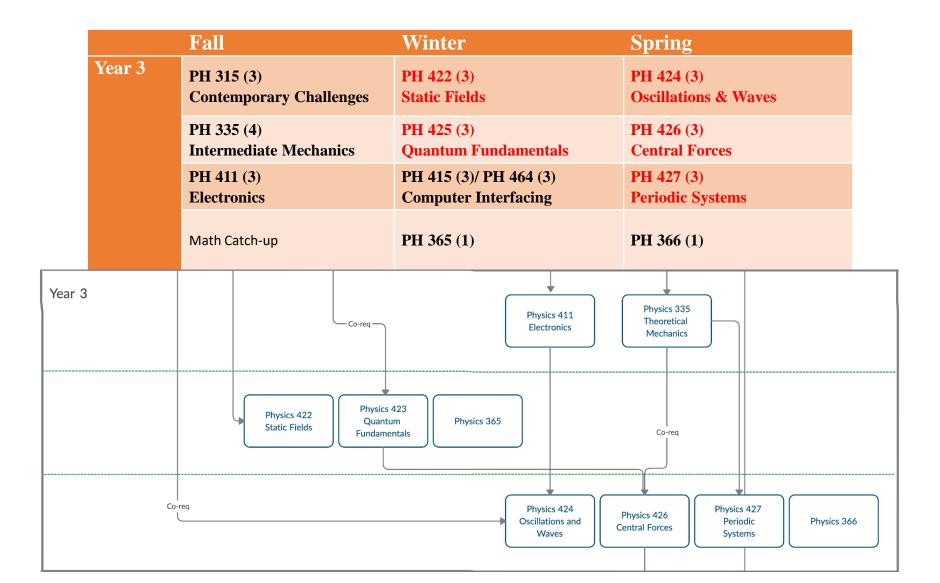


The Lower-Division Curriculum

	Fall	Winter	Spring
Year 2	PH 212 (4) + PH 222 (1)	PH 213 (4) + PH 223 (1)	PH 315 (3) Contemporary Challenges
	MTH 255 (4)	MTH 256 (4)	MTH 253 (4) OR MTH 306 (4) OR (MTH 264 (2) + 265 (2))
			MTH 256 (4)



The Paradigms Curriculum



The Paradigms Curriculum

	Fall	Winter	Spring
Year 3	PH 315 (3) Contemporary Challenges	PH 422 (3) Static Fields	PH 424 (3) Oscillations & Waves
	PH 335 (4) Intermediate Mechanics	PH 425 (3) Quantum Fundamentals	PH 426 (3) Central Forces
	PH 411 (3) Electronics	PH 415 (3)/ PH 464 (3) Computer Interfacing	PH 427 (3) Periodic Systems
	Math Catch-up	PH 365 (1)	PH 366 (1)
		New Experimental Course	PH 401 (1) Thesis Research
Year 4	PH 403 (1) Thesis Writing	PH 403 (1) Thesis Writing	PH 403 (1) Thesis Writing
	PH 423 (3) Energy & Entropy	PH 481 (4) Optics	
	PH 431 (3) Electromagnetism	PH 451 (3) Quantum Mechanics	PH 441 (3) Statistical Physics
	PH 367 (1) Computational Physics	PH elective (3)	PH elective (3)

• Day 7 -- Research lab scavenger hunt. WIC requirement.

• Day 8 -- Team Competition Day! Test your wits. Into to CM research.

• Day 9 -- So you want to be a theorist!?! Dr. David Craig

Day 10 – Industry panel

198 DAY 1 TEAM RANKING

- 1. Team Jansen
- 2. Team Schellman
- 3. Team Weniger (4/5) 4. Team Krane

One point each awarded to Team Schellman and Krane.

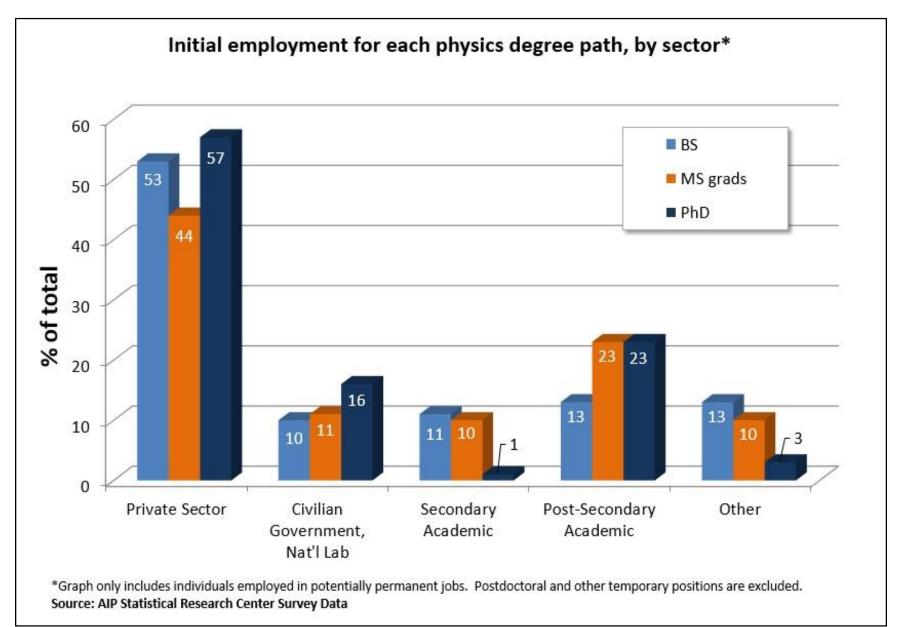
	FORCED SOCIALIZING	OREGON TRIVIA	PHYSICS TRIVIA	REAL PHYSICS	Total	%	Points
Weniger	1	4	8	3	16	62%	
Schellman	1	4	5	7	17	65%	1
Krane	1	2	5	9	17	65%	1
Jansen	1	5	5	5	16	62%	
MAX	1	5	8	12	26	100%	
Link	https://forms.gle/gCo	https://forms.gle	https://forms.gle	https://forms.gle	/SQP2xtTb	9pmY3CT1	7_

Rank Day 1 Rank Day 8 Prize Team 1 Schellman 2 1 (tie) 12 (tie) 2 Jansen 41 (tie) 3 Krane 4 Weniger 3 2 (tie)

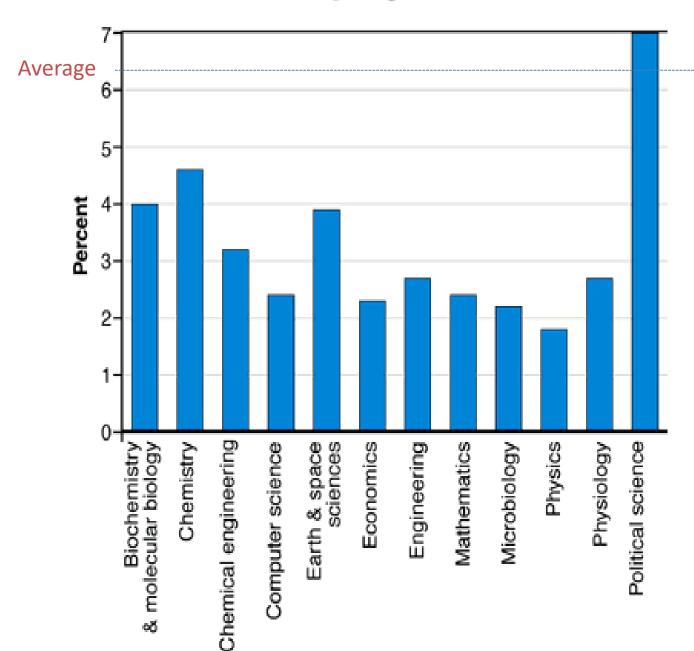
Congratulations to Team Schellman



Some Statistics: Where Physicists Work



Unemployment Rates



But what are these physicist actually doing?

Is the devil in details?

7. Imagine you could have any of the below jobs after graduation, which would you choose?

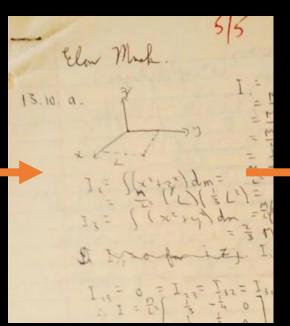


Engineer at Intel	(0) 0%
Physics teacher	(2) 10%
Observational astronomer	(10) 50%
Software coder at promising new 'start-up'	(1) 5%
Physics theoretician (no experiments!)	(5) 25%
Entrepreneur	(2) 10%



Who are these physics students?

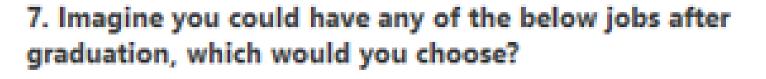






	Portland Area Employees		Global Employ	rees		
1	Intel 5200 N.E. Elam Young Pkwy. Hillsboro, OR 97124 503-696-8080 intel.com	20,600	107,400	Semiconductor computing and communications technology that helps secure, power and connect billions of devices from the cloud to the network to the edge and everything in between	Image: Creditive Commons Libense 3.0 Attribution	
2	Providence Health & Services 4400 N.E. Halsey St. #599 Portland, OR 97213 503-893-6500 providence.org	18,885	119,000	Not-for-profit health care provider with hospitals, clinics and home services	Local talent is	
3	Oregon Health & Science University 3181 S.W. Sam Jackson Pk. Portland, OR 97239 503-494-8311 ohsu.edu	17,556	17,556	Oregon's public academic health center and nationally distinguished research university dedicated to advancing health sciences	easier to hire!	
4	Nike Inc. 1 Bowerman Dr. Beaverton, OR 97005 503-671-6453 nike.com	12,000	74,000	Designer, marketer and distributor of authentic athletic footwear, apparel and accessories	more likely to stay!	

What do statistics say is the most probable distribution



Engineer at Intel (0) 0%

Physics teacher (2) 10%

Observational astronomer (10) 50%

Software coder at promising new 'start-up' (1) 5%

Physics theoretician (no experiments!) (5) 25%

Entrepreneur (2) 109

Statistics suggests at least ~2 of you will be!

~2 of you will be!

(10) 50% ~40-50 advertised jobs/year
https://www.astrobetter.com/wiki/Rumor+Mill+
Faculty-Staff

Estimate 5-10 of you will be.

33 advertised jobs last year http://particle.physics.ucdavis.edu/rumo r/doku.php?id=archive:2020

Some of you will be!

WELCOME!



Hazel Betz, Intel
Fault Isolation Engineer



Joshua Kevek, Intel
Technology Development Engineer

What do you do now? Where are you from?

What kind of career did you think you might have when you were still a student at OSU?

Day 10 Agenda

2:15-2:35- Introduce panel.

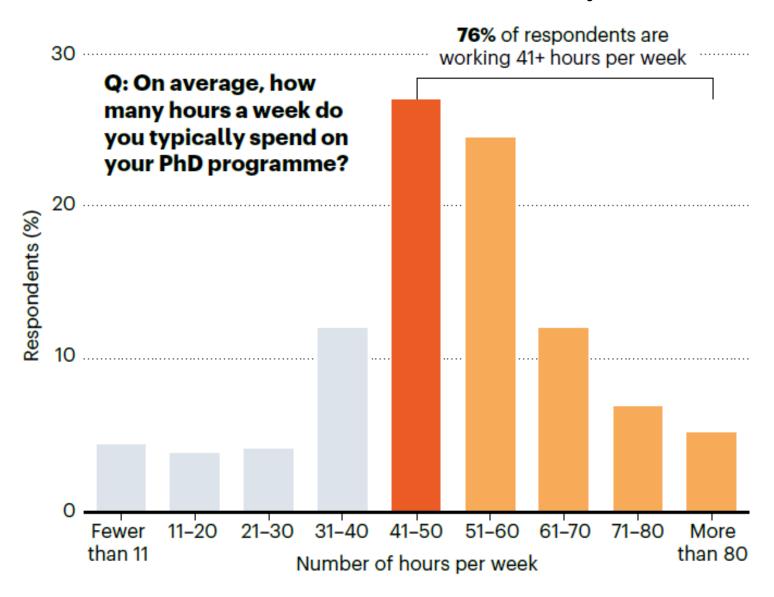
-Why would Intel be interested in a Physicist?

- Open question period.

2:35-2:45 Q&A in 3 private break-out room discussions.

2:45-2:50 – Finish up. Thank you all!

Here is how many hour graduate students work. How about in industry?



Break Out Room Discussion

Incomplete homework: Activity LinkedIn®

Most (80%) of people get their jobs through 2nd degree connections.

https://www.linkedin.com/in/physics-oregon-state-b195b869/

Homework:

- Complete your LinkedIn profile after class
 - Picture!!!
 - Educational Information (e.g. high school, college)
 - Transferrable Skills (volunteering experience, research, hobbies, etc.)
- Connect with me and 10 individuals in PH 198
 - Other Students
 - Organizers
 - Speakers



Emily M. Smith • 2nd

Teaching Assistant Professor at Colorado School of Mines

ដ James Haggerty, Willis Rogers, and 22 other shared connections



Scott Clark • 2nd in

Co-founder and CEO at SigOpt

San Francisco, CA

🔐 Jessica McCartney, Heidi Schellman, and 4 other shared connections



Joshua Kincaid • 2nd

I know mathematics, physics, and how to effectively share my knowledge with others.

David Roundy, Joshua Kevek, and 11 other shared connections



Rodney Snyder • 2nd

Graduate Research Assistant at University of Maryland

Silver Spring, MD

bethany matthews, James Haggerty, and 6 other shared connections



Isabel J. Rodriguez • 2nd

Master of Science - MS at Oregon State University

Seattle, WA

Dublin Nichols, Physics Oregon State, and 4 other shared connections



Tanner Simpson • 2nd

Frank J. Horton Research Fellow - Laboratory for Laser Energetics

Rochester, New York Metropolitan Area

Cade Trotter, Nikita Grigorian, and 12 other shared connections





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Prepare for Grad School



Graduate Students



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