

WELCOME

- Every one of you has the capability to graduate with a bachelor of science in physics.
- Every one of you is welcome, regardless of other identities you hold in addition to that of physicist.
- Every one of you may access campus resources to smooth your path through UW and help you transition to life beyond UW.



American Physical Society

2018 Draft Statement on Ethics

Physicists are citizens of the global community of science and share responsibility for its welfare.

The **success of the scientific enterprise** rests upon two ethical pillars.

The first of them is the **obligation to tell the truth**, which includes the prohibition of fabrication, falsification, and plagiarism.

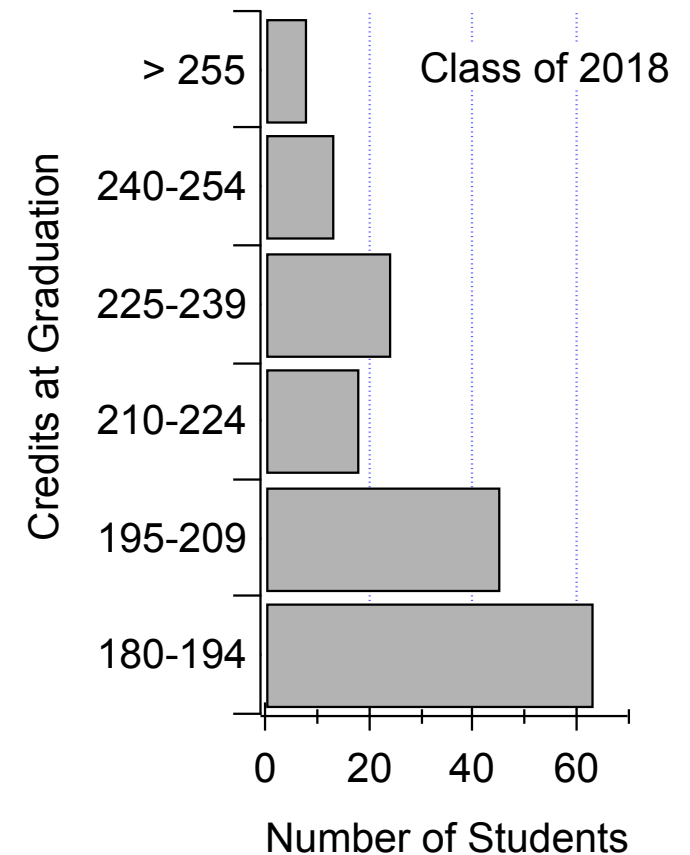
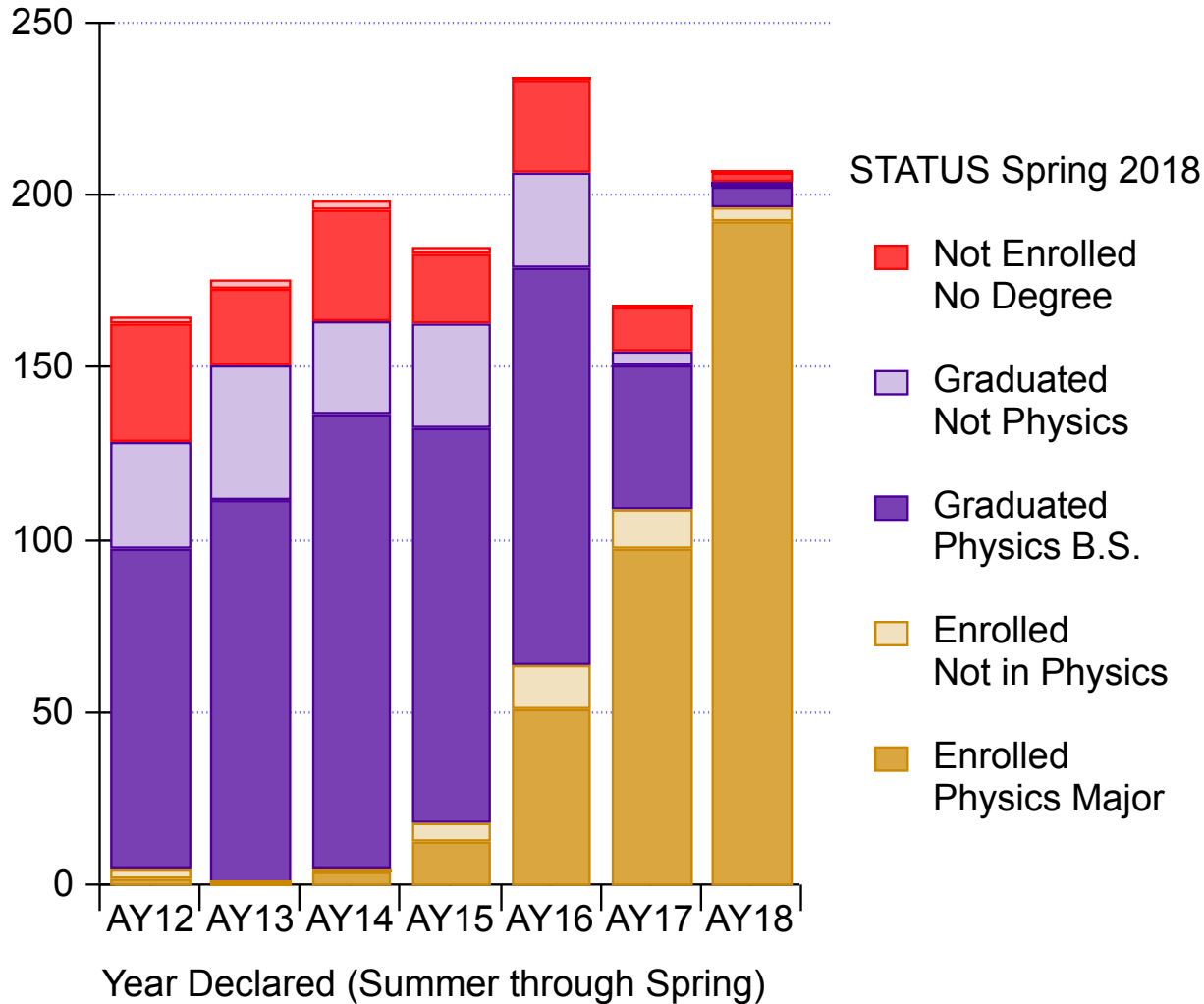
The second is the **obligation to treat people well**, which includes the prohibition of abuse of power, and encouragement of the practice of fair and respectful relationships with colleagues, subordinates and students, and avoidance of bias.

It's YOUR Education

- Ten years from now, what will you wish you had taken/learned/experienced while in college?
- Build a graduation plan that gets you the education you want and need – in and out of the classroom.
- Build in time to learn and explore
- Get to know faculty and staff
- If your plan doesn't quite get you a physics degree, talk to Prof. Olmstead about options and potential substitutions.

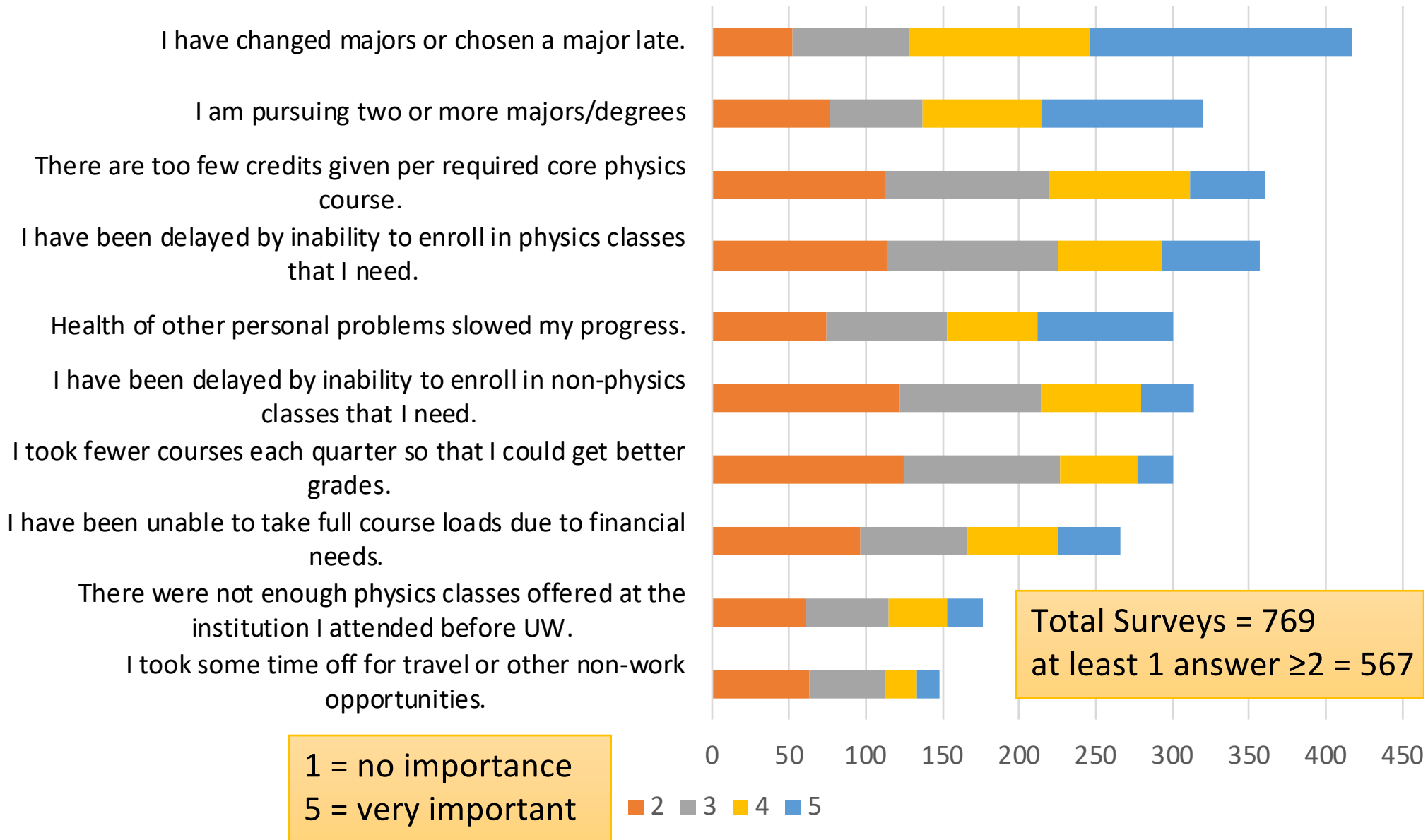
Physics Majors Graduate Eventually

Spring 2018 Status of Declared Physics Majors



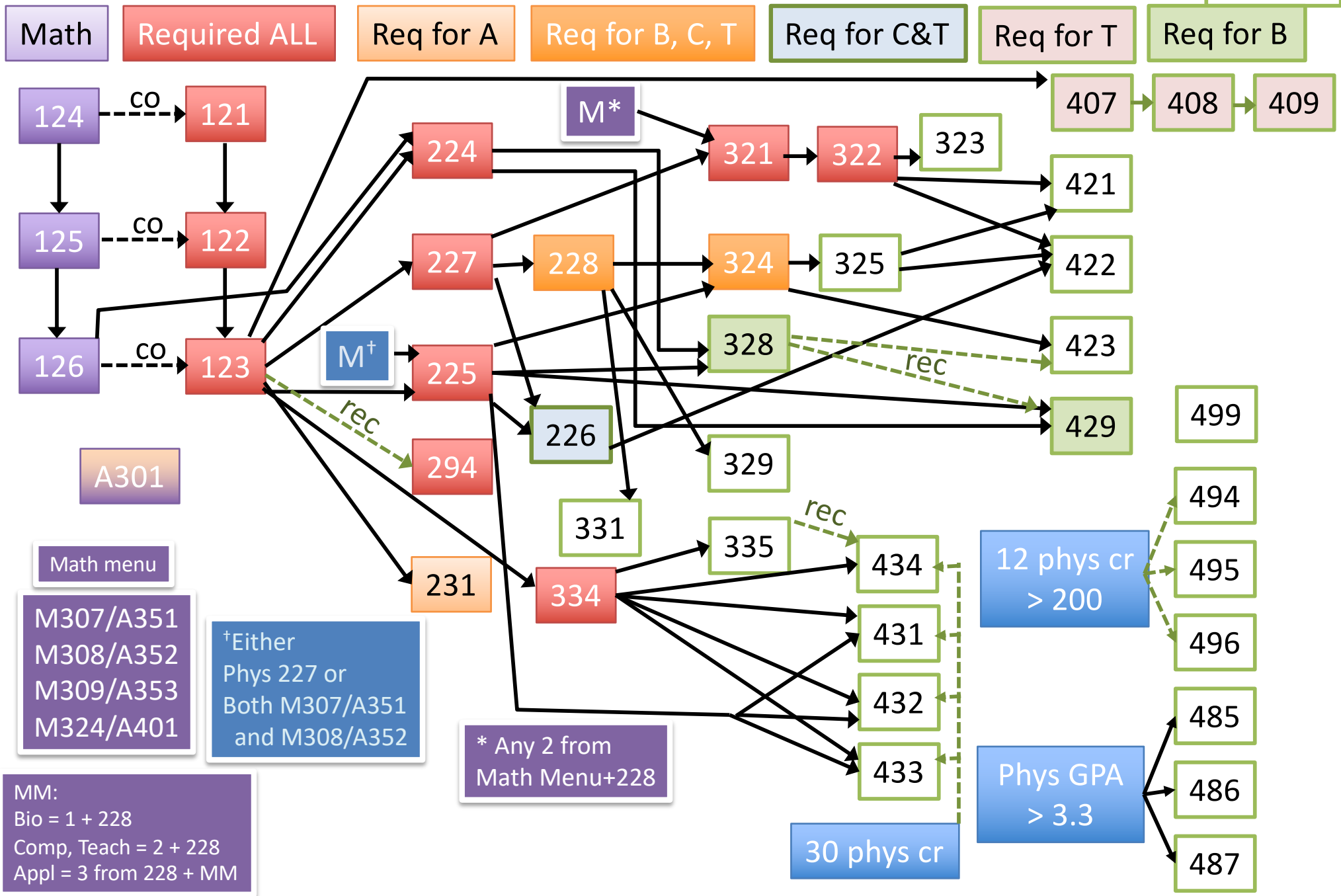
Note: Only 4 people admitted under new criteria are in Red: 2 are back this quarter; the other 2 stopped taking physics before they dropped out.

If you expect or know that it will take you longer than four years since starting college (at UW or elsewhere) to graduate, how important or relevant is each of the following in causing the increased time?



UW Physics Pre-Reqs (Majors Courses)

Elective



Learning Outside the Classroom

- Research
- Study Groups
- SPS Lunchbox Seminars (Monday 12:30)
- SPS Research Seminars (every other Wed 4:30)
- Assorted engineering teams (SpaceX, Human powered submarine; rocketry, robotics, etc.)
- Tutoring and outreach

Helpful Hints

- Subscribe to [Announcements-physics-majors]
- Check in regularly with Student Services
- Attend SPS and WIP events
- Form a study group
- Take advantage of campus resources
- Get to know your professors
 - It is YOUR job to introduce yourself
 - Profs can help you get involved in research
 - Summer REUs and Grad School require letters of rec

Problems with your class?

1. Talk to your Prof / TA
2. Talk to Margot Nims (Academic Counselor)
3. Talk to Prof. Olmstead (UG Faculty Advisor)
4. Talk to Prof. Heckel (Dept. Chair)
5. Talk to the Ombud

Something isn't right (in or out of class)...

- In an Emergency, call 911
- Safe Campus
 - <https://depts.washington.edu/safecamp/>
- Community Standards & Student Conduct
 - <https://www.washington.edu/cssc/>
- Title IX Office
 - <https://www.washington.edu/compliance/titleix/>
- Office of the Ombud
 - <https://www.washington.edu/ombud/>
- Healthy Huskies
 - <https://fyp.washington.edu/healthyhuskies/>

Health and Wellness Resources

HEALTH & WELLNESS

(in Elm Hall)



- Alcohol and Other Drug Education
- Suicide Intervention Program
- Interpersonal Violence Advocacy
- Prevention Education and Outreach
- Student Care Program

COUNSELING CENTER

(in Schmitz Hall)



- FREE and confidential, individual, relationship and group counseling
- Same-day crisis appointments
- Light Therapy for Seasonal Affective Disorder
- Career Counseling

MENTAL HEALTH CLINIC

(in Hall Health Center)



Available at no further charge:

- Brief mental health screening, assessment and referral services
- BASICS program to explore alcohol use
- Crisis counseling and intervention

Available for a fee; insurance can be billed, many insurance plans accepted:

- Individual counseling
- Group therapy & support groups
- Medication evaluation and management
- Psychiatric services

DISABILITY RESOURCES FOR STUDENTS

(in Mary Gates Hall)



- Serves students with temporary and permanent disabilities (including injuries and mental health issues)
- Provides academic and other accommodations
- All services are individualized

SAFECAMPUS

WHY CALL SAFECAMPUS

We know that not every day will be a great day. At some point, you might need help. If you feel worried or concerned about yourself, a friend, a roommate; if something feels potentially dangerous; or if you just need to talk, remember that the UW cares about your safety and well-being. Your choice to reach out for help is a vital component to ensuring individuals get the support they need. SafeCampus is a safe starting place that can creatively problem solve with you and share campus resources. Call us 24/7 at 206.685.SAFE (7233)

Q CENTER

The Q Center is a transformational space for advising and gender discussion. The center offers social areas and one-on-one advising for any member of the university community in need of an open, empathetic, confidential and non judgmental space. In addition, the Q Center helps to facilitate and enhance a brave, affirming, liberatory and celebratory environment for the entire university community of all sexual and gender orientations, identities and expressions. For camaraderie, support and a weekly gender discussion group information visit qcenter.washington.edu.

KELLY ETHNIC CULTURAL CENTER

The Samuel E. Kelly Ethnic Cultural Center has a variety of wellness and culturally relevant resources designed to create a welcoming environment for all students. The mission of the Kelly Ethnic Cultural Center is to provide an inclusive space that supports students and fosters academic success. Resources include the Wellness Room, which is used for relaxation, prayer, napping, meditation and is also used as a private space for nursing moms! The ECC also has Leadership Without Borders, the first community space on campus dedicated to supporting undocumented students at the UW. There is something for everyone at the ECC: mind, body and soul! depts.washington.edu/ecc

A photograph of a paved path lined with trees in full pink bloom, with the text "Questions??" overlaid in white. The path is flanked by lush green grass and vibrant pink flowers, creating a scenic and inviting atmosphere. The text is centered at the bottom of the image in a large, white, sans-serif font.

Questions??

Proposed Continuation Policy

- Students must take physics courses, courses from the menu of math classes, or electives in other departments that meet a requirement for the physics major*
- Students are required to maintain a cumulative average GPA of at least 2.0 in all physics classes.
- Students must earn a numerical grade of at least a 2.0 in each graded course used to satisfy the requirements of the physics major.

*Exceptions include students doing double majors and students who have already completed or nearly completed all the requirements. Excessive course repeats, excessive course drops and excessive University withdrawals may also demonstrate a lack of satisfactory progress.

UW Physics Yearly Course Offerings

Autumn	Winter	Spring	Summer
224	217	224	224
226	225	226	225
227	228	227	228
231	294		231
321	322	321	322
324	325	323	324
328	334	329	334
331		335	
(334)			
407	408	409	431
422	423	421	
433	429	432	
(434)	431	496	
494	495		
Special Topics	Special Topics	Special Topics	Special Topics

Core Requirements

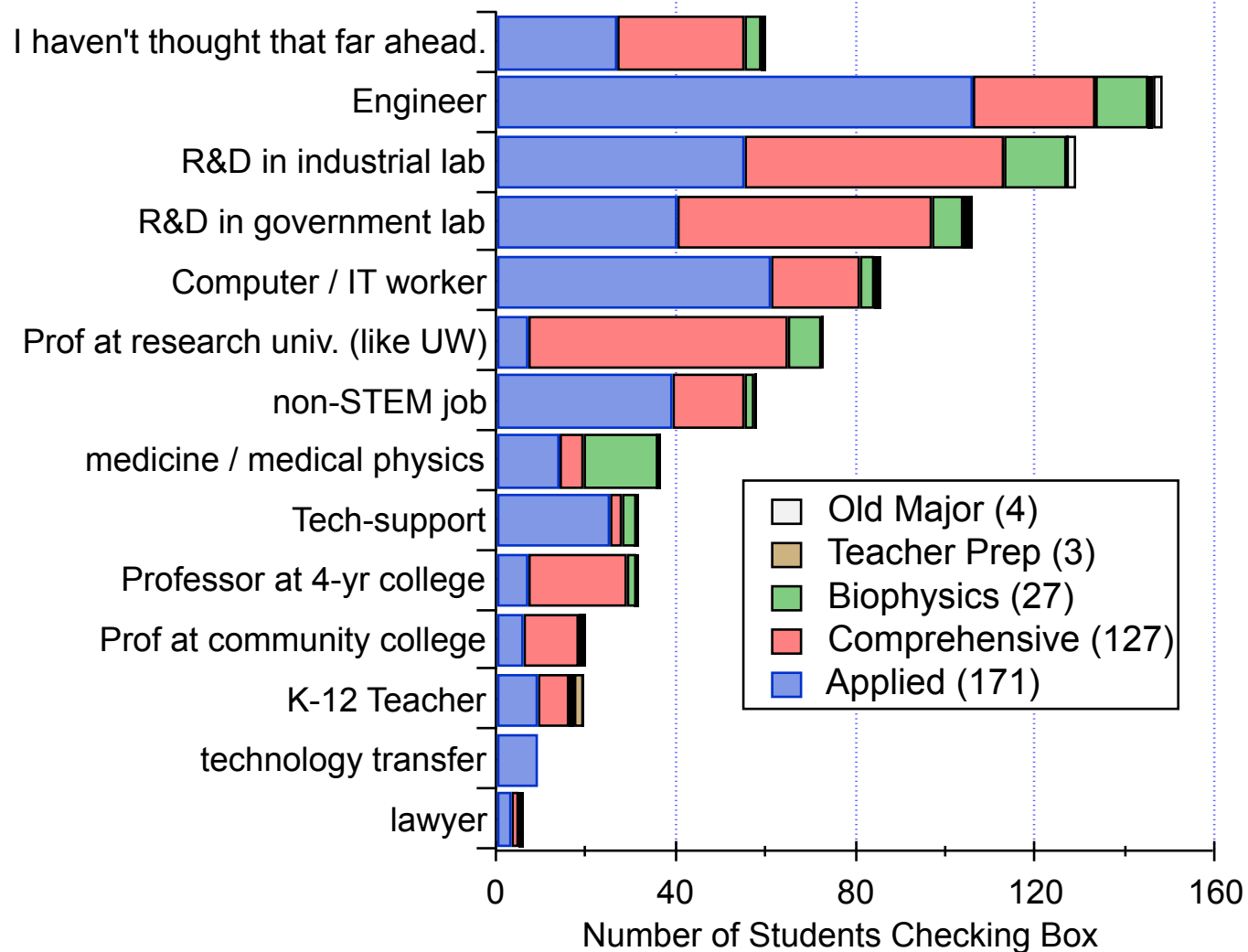
Area	Core
Intro	121 Mechanics 122 Elect. & Magnetism 123 Waves & Modern 224 Thermal Phys 225 Quantum I 294 Intro to Research
Math	124, 125, 126 – Calculus Math Menu (at least 1 – see next page): Math 307/AMath 351; M308/AM 352; M309/AM353; M324; AM401
Phys	227 Math Physics 321, 322 Elect & Magnetism 334 Electronics Lab 49x Capstone research/Seminar

	Comprehensive (+32 cr)	Applied (+29/28 cr)	Education (+32 cr)	Biological (+54 cr)
Math	228 2 MM	AMATH 301 3 or (228 + MM)	228 2 MM	228 1 MM
32x	226, 324 3 of {323, 325, 328, 329, A321, A322}	1 of {226, 323, 324, 329}	226, 324 1 of {323, 328, 329}	1 of {226, 323, 325, 329} 324 328 Statistical
Lab	2 of {331, 335, 431,432,433, A480 or CHEM 464}	231 2 of {331, 335, 431,432,433, A480 or CHEM 464}	1 of {331, 335, 431,432,433, A480 or CHEM 464}	
Res/ Sem	3 cr research or seminar	3 cr research or seminar	3 cr teaching or PER	3 cr in bio-related res.
UD Elect	2 additional Phys/Cognate Class	9 credits Phys/Cognate (may include 1 lab; 1 intro sci)	407-8-9	429
Other Sci				5 chem classes 2 bio 2 more bio or chem

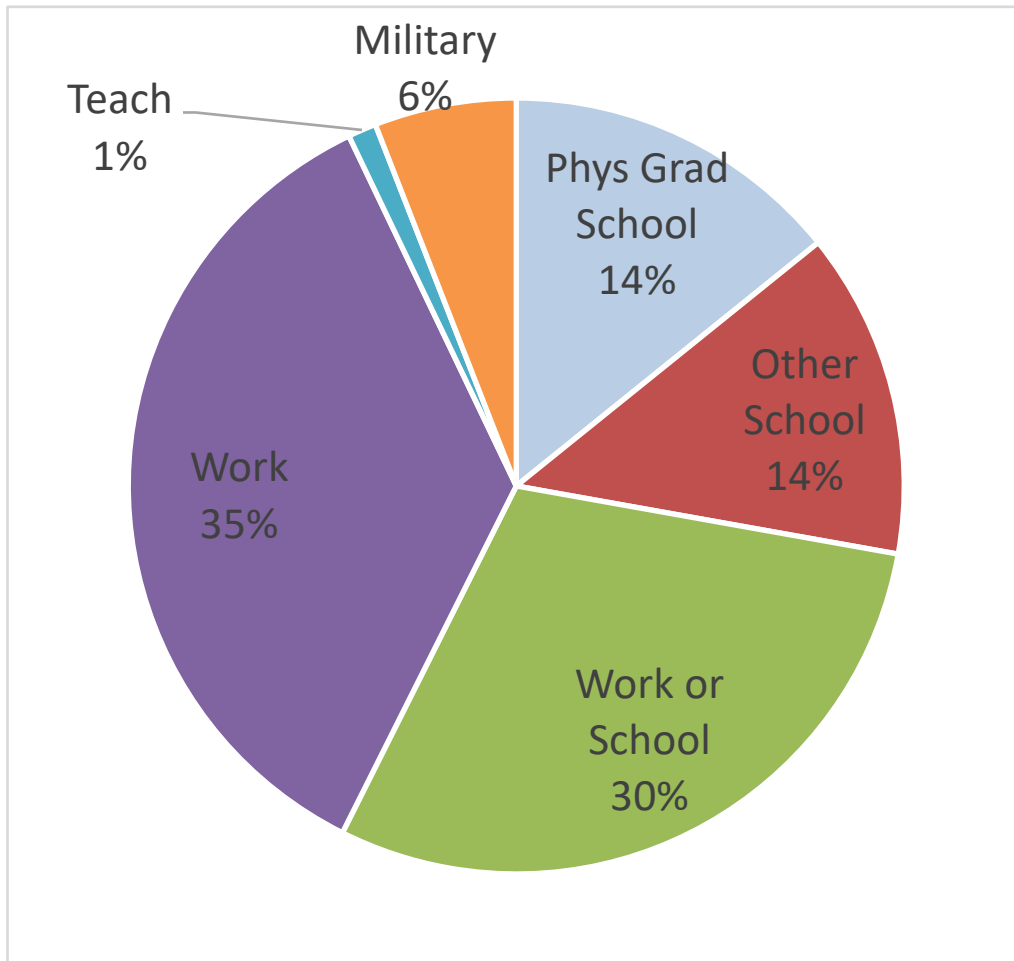
What comes after UW?

UW Physics Graduation Surveys (Required when you Apply to Graduate)

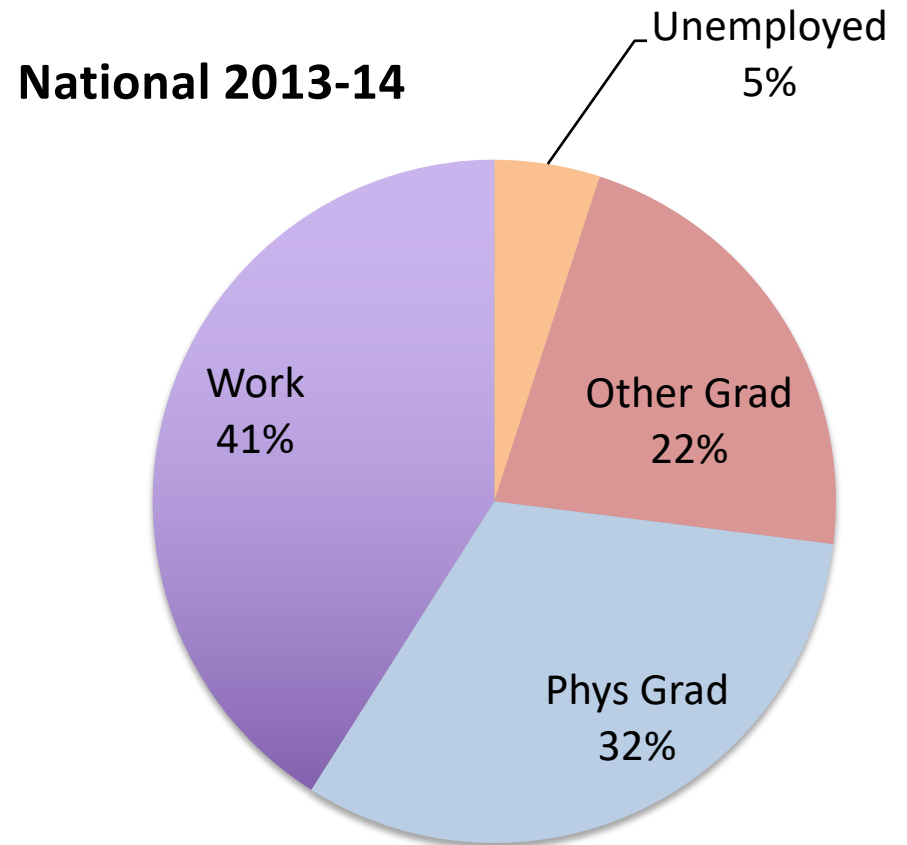
What sort of job do you envision having in 10-15 years? Check up to 3.
(AY17 and AY 18 grad surveys, N = 333)



Post-Graduation Physics BS



UW Physics 2016-17 Grads
[On Grad Application (N=169)]



National Data 2013-14 Grads
(aip.org/statistics)

NSF Data on Physics B.S. Careers

NSF Table 3-2. Broad occupation category of employed U.S. scientists and engineers with a bachelor's as the highest degree, by field of highest degree: 2013

