

Physics (PHYS) Ph.D. Program: 60 credit hours

1st year		2nd year		3rd year		4th year		5th year (+)	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
6150 Math. Physics	6100 Research Sem.	6230 Quantum Mech. II	6240 Stat. Mech.	67x0**	67x0**	An approved elective, 68x0, or 7300***	An approved elective, 68x0, or 7300***	PHYS 7300***	PHYS 7300***
6200 Comput. Physics	6220 Quantum Mech. I	6630 E & M II	67x0**	68x0 (3 or 6 CH)	68x0 (3 or 6 CH)	*** Student must have a minimum of 45 CH and an approved Doctoral Candidacy Form before enrolling in PHYS 7300.	* Student is strongly advised to meet with committee at least once per year through to the final defense.	* Student is strongly advised to meet with committee at least once per year through to the final defense.	* Student is strongly advised to meet with committee at least once per year through to the final defense.
6300 Classical Mech.	6620 E & M I		OR	OR	OR				
			elective approved by grad. programs advisor	elective approved by grad. programs advisor	elective approved by grad. programs advisor				
	* A minimum grade of 3.0 ('B') is required in 6220, 6300, and 6620 to continue in Ph.D program.		e.g., PHYS 6010 or course in CS, STATS, MATH, etc.	* Identify dissertation advisor, form Dissertation Committee	* A satisfactory DPP is expected within 1 year of completing Basic Core Courses.	*** Once begun, must maintain continuous enrollment in 7300, and no other courses.			
(8 CH)	(7 CH)	(6 CH)	(6 CH)	(6 CH)	(6 CH)	(3 CH in 7300, otherwise 6 CH)	(3 CH in 7300, otherwise 6 CH)	(3 CH)	(3 CH)
Basic Core Courses: PHYS 6100, 6150, 6200, 6220, 6230, 6240, 6300, 6620, 6630		** Must take at least one of the specialty courses : PHYS 6700, 6710, 6720. PHYS 6500 is also encouraged for theory/computational students.		DPP = Dissertation Proposal Presentation The DPP is given in front of an approved dissertation committee.		Student is fully engaged in Doctoral and/or Dissertation Research		Students should plan to graduate prior to or by the end of year <u>six</u> (6).	
Summer I and/or II		Summer I and/or II		Summer I and/or II		***Request permission to under-enroll. 15 CH of PHYS 7300 must be completed. Student must be enrolled in the semester or term of graduation.			
course: PHYS 6010 (Introduction to Current Physics Research), or course approved by graduate programs advisor.		course: PHYS 6800, 6810, 6820 (as appropriate), or PHYS 6010 if dissertation advisor not yet identified, or course approved by graduate programs advisor. Identify dissertation advisor, begin scoping out research program, identify committee members.		course: PHYS 6800, 6810, 6820 (as appropriate), or course approved by graduate programs advisor.					

Notes: (1) Required course work = 27 CH; an additional 18 CH must be taken to reach the *minimum* of 45 CH for Doctoral Candidacy Status. (2) All elective courses must be approved by the graduate programs advisor prior to registration. A maximum of 4 CH of PHYS 5980 may be counted in the program of study. (3) Registration in PHYS 68x0 requires successful completion of program requirements leading to preparation of the DPP, including identification of the dissertation advisor. (4) Student should plan to minimize excess credits in PHYS 7300 beyond the required 15 CH.