

DOCTOR OF PHILOSOPHY PROGRAM (with BS Degree)

The Ph.D. program in Physics is composed of a minimum number of fourteen courses in addition to a non-credit seminar, qualifying exam, thesis proposal defense and a Ph.D. thesis to be completed in accordance with the regulations of the Institute of Graduate Studies in Science and Engineering. A maximum of four courses may be taken from the graduate courses offered by the other programs in the university with the permission of the graduate advisor. The department requires that the dissertation work shall lead to at least one published paper in a refereed physics journal listed in the Science Citation Index Expanded.

1 st Semester				2 nd Semester			
Code	Course	Cr.	ECTS	Code	Course	Cr.	ECTS
PHYS 501	Classical Dynamics	4	10	PHYS 532	Quantum Mechanics II	4	10
PHYS 511	Electromagnetic Theory I	4	10	PHYS 541	Statistical Mechanics I	4	10
PHYS 531	Quantum Mechanics I	4	10	---	Elective	3	7
PHYS 500	Readings in Physics	1	3				
	Total	13	33		Total	11	27
3 rd Semester				4 th Semester			
Code	Course	Cr.	ECTS	Code	Course	Cr.	ECTS
PHYS	Phys Elect.	3/4	10	PHYS	Phys Elect.	3/4	10
PHYS	Phys Elect.	3/4	10	---	Elective	3	7
PHYS	Phys Elect.	3/4	10	---	Elective	3	7
				PHYS 679	Graduate Seminar	0	6
	Total	9/12	30		Total	9/10	30

5 th Semester			
Code	Course	Cr.	ECTS
---	Elective	3	7
	Total	3	7

		Cr.	ECTS
---	Qualifying Exam	0	30
---	Thesis Proposal Defense	0	30
PHYS 790	PhD Thesis in Physics	0	120

Total: 45/49 Credits
ECTS: 307

Qualifying Exams

Ph.D. students are required to take their qualifying exams by the end of registration week of the semester following completion of the coursework. If the students want, the qualifying exams may be postponed one semester.