

Applying to the physics PhD program after having earned an MS degree:

If your background is not physics at the MS level, or your previous preparation is deemed insufficient, you will have to take an additional year of remedial classes covering the physics topics of the Master of Science physics curriculum. If you meet the English Proficiency requirements (see admissions link) and you are admitted to the program (see below), you can be waived out of the year of remedial classes, if you take and pass the qualifier exam. This exam is usually given during the week of fall registration, in September or spring registration in February. You can obtain the dates of the registration weeks for each year, by consulting the academic calendar of our university (see link below).

- **BASIC ADMISSION EXAM:** Admission to the department requires successful passing the basic admission exam. This exam the third and fourth year topics of the physics undergraduate curriculum (representative text books are indicated by their author's name in parenthesis):
 - Quantum Mechanics (Griffiths)
 - Electromagnetism (Griffiths)
 - Classical Mechanics (Marion, Hand and Finch)
 - Statistical Mechanics (Reif, Mandl)
 - Methods of Mathematical Physics (Arfken)

You can pass out of this exam if you obtain a GRE physics subject score of 750 or higher.

- **REMEDIAL STATUS AND WAIVER:** Students being accepted to the PhD program are admitted with the condition that you first take a set of remedial courses (2 semesters):
 - Phys 501 Classical Dynamics – (on the level of Landau and Lifshitz, Jose and Saletan)
 - Phys 511 Electromagnetic Theory – (on the level of Jackson, or C.A. Brau)
 - Phys 531, 532 Quantum Mechanics I,II – (on the level of Sakurai, Cohen-Tannudji)
 - Phys 541 Statistical Mechanics – (on the level of Pathria)

[All physics courses of the catalogue can be found at http://www.phys.boun.edu.tr/?page_id=28#511. Note that not all courses are regularly offered. Check the Registrar Schedule <http://registration.boun.edu.tr/> (select general services on left panel, then choose Schedule in the menu that will appear).]

In order to continue to the regular PhD program, you must have passed all the remedial courses and obtained a minimum GPA of 2.5. You can be waived out of the remedial exam, if you take the PhD written qualifying exam.

- **QUALIFIER EXAM:** This exam is given twice a year during the registration period of the following semester. The academic calendar (see list of links below) has the dates for the registration periods. The exam consists of two four-hour sessions (of four questions each) on two consecutive days, covering the topics of the remedial courses. Passage of the qualifying exam automatically also means that you have fulfilled the written part of the PhD qualifiers. There is no limit on the number of times you can take this exam, so it is recommended that you take it as soon as you can. Besides the written qualifier exam, you also have to take an oral exam on the topic of your proposed thesis subject. You are expected to pass the qualifiers at the end of your 5th semester in the program.

- **ENGLISH PROFICIENCY:** The language of instruction at Bogazici University is English. You need to prove English proficiency, this can be done via TOEFL, certain other external exams, or the exam administered by the university's school of foreign languages (see their web site for details, as we usually do not handle these matters).
- **FACULTY SPONSOR:** In addition, for admission to the PhD program you also need a full-time physics department faculty member that will sponsor for you, *i.e.* agree to carry out a PhD with you. You are not obliged to actually carry your thesis out under the advisorship of your sponsor. However, your sponsor will be your default thesis advisor. This is to ensure that there is a faculty member available to advise you throughout your PhD in a field of interest to you.
- **APPLICATION DEADLINE/DATES:** The deadlines for the application process for the spring term or fall term can be found in the academic calendar on the university's web site. Typically the application for the Spring has a deadline sometime in December of the previous year, or the following January. Likewise, for the Fall semester the application deadline is sometime in April. You have to visit the website of the university for more details on the application process, particularly the academic calendar. This calendar also contains the time frame during which the basic scientific admissions exam is give. The particular date for the physics exam is announced by the Institute of Science and Engineering. See links below.
- **FINANCIAL AID:** Be advised that there is virtually no financial aid available. Your chances of being funded by a research project while still taking classes (1 year remedial, 1 year PhD classes) are low, and you should be prepared to cover your own expenses for the first two years at least. There is a graduate dormitory and you might qualify for admissions to the dorm, which can substantially reduce living costs, since you do not have to pay rent. Please contact the university's office of international relations for for matters concerning tuition fees, living costs etc., they might be able to provide you with some numbers. (link below)
- **Web LINKS:**
 - This is the standard web site explaining the university wide admission and english requirements to the graduate programs.

http://www.boun.edu.tr/en-US/Content/Prospective_Students/Graduate_Admissions.aspx

- University academic calendar:

http://www.boun.edu.tr/en-US/Content/Academic/Academic_Calendar

◦

- Announcements for prospective students:

http://www.boun.edu.tr/en-US/Content/Prospective_Students/Announcements_for_Prospective_Students.aspx

- All science graduate programs fall under the administration of the Institute of Graduate Studies in Science and Engineering . Check this web site for announcement, or contact the institute for questions on admission exam dates.

<http://www.fbe.boun.edu.tr/fbe/?q=en/mainpage>

- This is a sample web page for the Fall Semester of 2013-2014. The minimum requirement for the Physics Department are unlikely to change over the coming years.

http://www.boun.edu.tr/Assets/Documents/News/Public/Duyurular/2013-2014_I_lustu/2013-2014_I_Institute_for_graduate_science_and_engineering.htm

- The University's Office of International Relations:
<http://www.intl.boun.edu.tr/>