

Office of Academic Advising

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Degree Audit Checklist:

Physics Major (B.S.)

Expected graduation date: ___ *May* ___ *January* *Year:* _____

Name: _____ **SSN:** _____
Last Name
First Name
MI

Email address: _____ **Phone#:** _____

Additional major or minor: _____

Instructions: This form indicates which departmental and university requirements you have completed and which you must complete before graduation. If you have any questions, speak to your faculty adviser about department requirements, or to an academic adviser about other requirements.

Special Notes for Juniors:

This form is used to determine your eligibility for graduation and must be completed and filed with the Office of Academic Advising in the spring of your junior year.

1. Complete this form and have it approved and signed by your faculty adviser in the spring of your junior year. After this, make an appointment in the Office of Academic Advising and bring this form and a copy of your transcript to the adviser clearing for your major.
2. This form must be filled out **completely** and **neatly**, including course title and number as listed on transcript.
3. When noting that a course has been completed, please write in the grade you earned in that course under the column "Completed."
4. If you have completed the checklist with an adviser in the Office of Academic Advising and you make a change in a required course you intended to take you must notify the adviser of that change.

Course No. and Title	Completed	In Progress	To be Done
Physics and Astronomy Courses			
Year 1:			
171.105 Intro to Classical Physics I	_____	_____	_____
173.111 General Physics Laboratory I	_____	_____	_____
171.106 Intro to Classical Physics II	_____	_____	_____
173.112 General Physics Laboratory II	_____	_____	_____
*Note: 171.101-102 or 171.103-104 are acceptable in place of 171.105-106			
Year 2:			
171.201 Special Relativity and Waves (fall term)	_____	_____	_____
172.203 Contemporary Physics Seminar (fall term)	_____	_____	_____
171.202 Modern Physics (spring term)	_____	_____	_____
171.204 Classical Mechanics (spring term)	_____	_____	_____

Course No. and Title	Completed	In Progress	To be Done
Years 3 and 4:			
171.301 Intro to Electromagnetic Theory I (fall term, year 3)	_____	_____	_____
171.303 Intro to Quantum Mechanics I (fall term, year 3)	_____	_____	_____
171.304 Intro to Quantum Mechanics II or 171.312 Statistical Physics and Thermodynamics (spring term, yr 3 or 4)	_____	_____	_____
173.308 Intermediate Physics Laboratory or 173.412 Lab of Advanced Instrumentations (spring term, yr 3 or 4)	_____	_____	_____

Mathematics Courses

110.108 Calculus I (year 1)	_____	_____	_____
110.109 Calculus II (year 1)	_____	_____	_____
110.202 Calculus III (year 2)*	_____	_____	_____
110.201 Linear Algebra (year 2)*	_____	_____	_____
110.302 Differential Equations with Applications	_____	_____	_____

* **Note:** Students may substitute 110.211-212 Honors Multivariable Calculus and Linear Algebra for 110.201 Linear Algebra and 110.202 Calculus III.

Electives

Five additional courses (at least 3 credits each) at the 200-600 level in the following departments: Physics and Astronomy, Biology, Biophysics, Chemistry, Cognitive Science, Earth and Planetary Sciences, Mathematics, and/or the School of Engineering (excluding courses listed as 500.xxx or 551.xxx). These courses must constitute a coherent and rigorous program of study approved by the Departmental Advisor and Director of Undergraduate Study. At least four of these courses must be taken in a single department in the Krieger School of Arts and Sciences or within a single department or program in the Whiting School of Engineering. One semester of research may be used as one elective.

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature of Director of Undergraduate Studies for Physics and Astronomy (Dr. David Neufeld) indicating approval of program:

Other Departmental Requirements:

None at this time.

Please initial here to indicate you have read and understand these requirements: _____

Recommendations

An additional two semesters of mathematics are recommended, either 171.305-306 or 110.311 and one other. It is recommended that physics majors become proficient in a computer programming language, such as FORTRAN or C, either independently or through course work. Students are encouraged to broaden their background by taking introductory courses in other Natural Science or Engineering disciplines, such as Introductory Chemistry (030.101-102).

Honors in Your Major

To graduate with honors in your major, you must complete an HONORS CLEARANCE CHECKLIST by April 1st in the year you expect to graduate in May. Most commonly, this means by April 1st of your senior year. Failure to submit this checklist by this date will mean that you will not receive honors in your major. You cannot complete the checklist before February 1st of the same year. Please note that these requirements are not related to "General University Honors." General University Honors are automatically assigned to all students who graduate with a 3.5 or higher.

To receive Honors in Physics, you must have met the following criteria:

- Have a GPA in your major requirements of a 3.5 or higher.

To notify us that you are eligible for honors, you must:

1. Obtain an honors checklist by either downloading it from www.advising.jhu.edu or by picking one up in the Office of Academic Advising.
2. Complete the checklist after February 1st of your senior year and take it to: Dr. David Neufield.
3. Return the signed checklist to the Office of Academic Advising by April 1st. You do not need to make an appointment to return the checklist, but it must be signed by the correct representative from your department or it will not be processed.

Distribution Requirements for Majors:

12 credits of S, H, Q and/or E

110.108 Calculus I (or equivalent)	_____	_____	_____
110.109 Calculus II (or equivalent)	_____	_____	_____
110.202 Calculus III (or equivalent)	_____	_____	_____

18 additional credits of S and/or H

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

University Requirements:

126 total credits	_____	_____	_____
60 credits at Johns Hopkins	_____	_____	_____
4 semesters at Johns Hopkins	_____	_____	_____
4 writing intensive courses (12 credits)	_____	_____	_____
No more than 18 D credits	_____	_____	_____
No more than 5 SPSBE courses	_____	_____	_____
C average or better in your major	_____	_____	_____
No more than 12 transfer credits	_____	_____	_____

HOW MANY SEMESTERS WILL YOU HAVE COMPLETED AT TIME OF GRADUATION? _____

Language Elements Courses: Students who take the first semester of an elementary language course in French, German, Greek, Italian, Latin, Modern Hebrew, Portuguese or Spanish must complete the second semester course as well or lose the credit for the first term.

FOR JUNIORS ONLY:

Student's Statement:

I have reviewed my progress toward meeting the graduation requirements for my major. I understand which requirements have been completed and which remain to be completed, including those that are in progress, if any. **I agree to notify the Office of Academic Advising if I make any changes to my plan of study.**

*Student's Signature*_____
Date

Adviser's Statement:

I have reviewed progress toward meeting the graduation requirements for the major with the student. We have marked which requirements have been completed and which remain to be completed, including those that are in progress, if any. **I have indicated by initialing or submitting a supporting memo any exceptions to departmental requirements that have been approved for this particular student.**

*Faculty Adviser's Name*_____
*Signature*_____
*Date*_____
*Academic Adviser's Name*_____
*Signature*_____
Date