Summary of requirements for candidacy to the Neuroscience Master’s program:

All Neuroscience Master’s students must complete and pass the following six graduate level courses with a grade of B- or better:
- NBIO 140: Principles of Neuroscience
- BIOL 205A: Masters Proseminar
- One laboratory- or research-based course (see below)
- Three life-science electives, numbered 100 or above

In addition, students must register for and attend the following required non-graded courses/seminars:
- CONT 300B: Responsible Conduct of Science or equivalent Research Ethics Workshop
- Two semesters of Graduate Student Research Seminar, BIOL 350A/B
- Two semesters of Journal Club, NBIO 306A/B
COURSE REQUIREMENTS:
When the degree is to be completed in one year, this will be done at a rate of three courses per semester for two semesters. However, some students may instead elect to finish the degree in two years (e.g. when they introduce a heavy research component into the program or write an optional thesis). Students completing a thesis may, with the permission of their research advisor and Maria Miaara, take classes in their second year. In all cases, readmission into the second year is not guaranteed and is based on research and class performance. Students must pass each of the six courses with a grade of B- or better. Elective courses outside of the life sciences will be considered on a case-by-case basis by the Program Chair. Transfer credit is not accepted for the Master’s Program to reduce course load.

Courses
A total of six graduate-level courses (passed with a grade of B- or better), along with the attendance of Journal Clubs and Graduate Student Research Seminar for two semesters, are required for the degree. The courses must include the following required courses: NBIO 140 (Principles of Neuroscience), BIOL 205A (Master's Proseminar), and one laboratory or research based course. The three remaining electives must be agreed upon by the Program Chair.

If a required course is “closed” for registration, please email the course instructor indicating that you are a Neuroscience Master's student; the instructor will usually email you a consent code so that you can still register online.

Laboratory- or Research-Based Course Requirement
There are two options for completion of the research requirement:
1) Completion of a permitted Project Laboratory with a grade of B- or better
2) One semester of Master’s Research Lab (NEUR 296A/B) with a grade of B- or better

*See page 3 for more information*

Additional Requirements

Journal Clubs: Students should register and attend two semesters of “Topics in Neurobiology” Journal Club (NBIO 306). Students can register for Systems/Computational Journal Club (NBIO 340), Topics in Molecular Genetics and Development (BIOL 305), or Psychology Research Seminar (PSYC 316A) in addition to NBIO 306 with permission of the Program Chair.

Graduate Student Research Seminar (BIOL 350A/B): All students are required to register for and attend two semesters of the Graduate Student Research Seminar Pizza Talks, held on Fridays at 12:30 pm. Master’s students are not required to present at the seminar.

Responsible Conduct of Science: Students must register for and attend the Responsible Conduct of Science (CONT 300B) course, or the equivalent 1-2 day Research Ethics Workshop, usually offered in the spring semester.

Tuesday Colloquia Series: All students should attend the regular Joint Biology & Neuroscience Seminar on Tuesdays.

English as a Second Language (ESL) Classes:
If a student is required to take ESL classes, it is expected that the student will attend all classes and receive credit. A failing grade (no-credit), due to excessive absences or for any other reason, will be reflected on the student’s final transcript.
**RESEARCH REQUIREMENT**

There are two options for completion of the research requirement:

1) Completion of a permitted Project Laboratory with a grade of B- or better
2) One semester of Master’s Research Lab (NEUR 296A/B) with a grade of B- or better

**Project Laboratory**

The project laboratory provides a semi-independent, guided research project experience. In some cases a student may complete a project lab and also complete NEUR 296A/B. In this case, the NEUR 296A/B will fulfill the research requirement and the project lab will fulfill an elective. Project Lab courses for the 2018-2019 academic year include:

**Fall 2018:**
- BIOL 156A - Project Laboratory in Biotechnology
- BIOL 157A - Project Lab in Neurobiology and Behavior

**Spring 2019:**
- BIOL 159A Project Lab in Microbiology

**Master's Research Lab (NEUR 296A/B)**

The Master’s Research Lab offers students an opportunity to engage in biological research by working in the laboratory of a faculty member for at least 15 hours/week for one semester. Research faculty and Program Chair approval is required. Students who choose to do a Master’s Research Lab should register for NEUR 296A/B with the respective faculty member.

The choice of laboratory is made jointly by the student and the faculty member in whose lab the research is to take place. Students may choose from any faculty member listed as Life Sciences faculty. To find a research advisor, define a list of potential advisors using the graduate bulletin and faculty listing as a starting point, and then email and speak with the professors you are most interested in. The Program Chair is available to give advice on research advisors.

Students who wish to complete NEUR 296A in the fall semester are encouraged to wait to contact faculty regarding potential lab work until they arrive on campus for orientation. They should attend the “Faculty Bazaar” held during orientation week to aid in lab selection for graduate students. It is the responsibility of the student to find a lab for their Master’s Research Lab and Master’s students are not guaranteed a spot in a lab.

Students who wish to complete a NEUR 296B in the spring semester are encouraged to reach out to faculty a few weeks before the start of the spring semester to ensure that they secure a spot.

**Only one semester of NEUR 296A/B will be counted toward program requirements.** Additional semesters of NEUR 296A/B or NEUR 299A/B will be counted in GPA calculations and will be listed on transcripts but will not count towards the six courses required for graduation.

All students will submit a written research lab report at the end of the semester and may also be asked by the research advisor to do deliver a research seminar. **Research reports are due by 5pm to the research advisor and the Graduate Affairs Office no later than one week before the first day of Final Exams.**
OPTIONAL MASTER’S THESIS

An optional Master’s Thesis continues research initiated during a Project Lab (less common) OR following one or two semesters of Master’s Research Lab NEUR 296A/B in the same lab (more common). It is up to the discretion of the research faculty advisor and program chair whether a student may continue in the lab to complete a thesis. To be readmitted into the MS program as an extended MS student and complete a thesis, students must perform satisfactorily in research and coursework.

NOTE: Completing a thesis in one year is discouraged. The thesis should be more than can be reasonably accomplished within one year. Students who complete a Master’s thesis generally extend their total time in the program to 1.5 or 2 years, after first completing one or two semesters of Master’s Research Laboratory (NEUR 296A/B), all within the same lab.

The student will continue a research project lasting a minimum of one semester, but usually two or more semesters following one semester of NEUR 296A/B, in a single lab and submit a thesis. Students who register for a Master’s Research Project (NEUR 299A/B) will typically register for Master’s Lab NEUR 296A/B and work in the same lab for one or more previous semesters and make substantial research progress. It is the responsibility of the student to find a research advisor for the thesis work.

NOTE: NEUR 299 can only be taken ONCE.

Thesis Intent Form
Submission of a Master’s thesis requires mutual agreement between the student, advisor, and Program Chair. Students who wish to complete a Master’s thesis should indicate their interest to their research advisor at the beginning of the semester that they register for the Master’s Research Lab NEUR 296A/B. A student who plans to register for NEUR 299A in the fall semester of the second year must submit a thesis intent form to the Program Chair and the Graduate Affairs Office no later than March 1st of their first year. A student who plans to register for NEUR 299AB in the spring semester of the first or second year must submit a thesis intent form to the Program Chair and the Graduate Affairs Office no later than November 1st of the previous fall semester. Note: The intent to complete a thesis does not guarantee the ability to do so. Readmission into the second year will be determined based on research performance in the semester in which the thesis intent form is filed and performance in coursework.

Thesis Format and Deadlines
Deadlines and guidelines for submission and acceptance of the Master’s thesis are set by the Graduate School and the Registrar. Please see the Graduate School website for details.

The completed thesis is due by 5pm to the research advisor and the Program Chair no later than two weeks before the end of the semester.
TIMELINE:

Meeting with Program Chair:
All students should meet with the Program Chair (Maria Miara) to discuss their plan for the year. These meetings will typically take place during the week of Orientation through the first week of classes.

Non-Thesis Track:
Students in their first semester (Fall 2018) will register for the Topics in Neurobiology Journal Club (NBIO 306), the Graduate Student Research Seminar (BIOL 350A), and three lecture courses: NBIO 140 (Principles of Neuroscience), BIOL 205A (Master’s Proseminar) and one course to be agreed upon by the Program Chair.

Students in their second semester (Spring 2019) will register for the Topics in Neurobiology Journal Club (NBIO 306), the Graduate Student Research Seminar (BIOL 350B), Responsible Conduct of Science (CONT 300B) or the equivalent Research Ethics workshop, and three courses to be agreed upon by the Program Chair.

Thesis track:
First Year:
Students in their first semester (Fall 2018) will register for the Topics in Neurobiology Journal Club (NBIO 306), the Graduate Student Research Seminar (BIOL 350A), and three lecture courses: NBIO 140 (Principles of Neuroscience), BIOL 205A (Master’s Proseminar) and one course to be agreed upon by the Program Chair. If the student hopes to complete a thesis, they should consider enrolling in either a Project Lab or Master’s Research Lab (NEUR 296A). Any student with an interest in extending their degree into a thesis should discuss this with the Program Chair.

Students in their second semester (Spring 2019) will register for the Topics in Neurobiology Journal Club (NBIO 306), the Graduate Student Research Seminar (BIOL 350), Responsible Conduct of Science (CONT 300B) or the equivalent Research Ethics Workshop, and three courses to be agreed upon by the Program Chair. Students may wish to enroll in a second semester of Master’s Research Lab, NEUR 296B but should be aware that only one semester of this course can count toward degree requirements. A second semester of NEUR 296 will be recorded on the student’s transcript and will be included in GPA calculations. If the student progressed far enough in one semester of Master’s Research Lab work to complete a thesis (not common, discouraged), they will register for Master’s Research Project NEUR 299. The intent to write a thesis in the following fall semester needs to be declared by March 1st.

Summer:
Students have three options for the summer between years (relevant to students completing a thesis) – they may:

1) Leave Brandeis (to go home, work, etc.).
2) Stay at Brandeis and continue to work in their thesis lab as a volunteer.
3) Stay at Brandeis and register for NEUR 296 in the summer. NOTE: this may not be possible for all labs or students, this option should be discussed with and approved by the Program Chair. There will be a tuition cost for the summer.

Academic regulations dictate that students may not be paid during the summer to work in their thesis lab on their thesis research.

Second Year:
Students who have been readmitted with the intention of completing a Master’s Thesis following
one or two semesters of Master’s Research Lab NEUR 296 will typically register for the Master’s Research Project (NEUR 299A) course in the fall semester of the following year. A tuition credit is applied for students who only register for NEUR 299A (along with NBIO 306 and BIOL 350). The thesis must be completed in the semester that the student registers for NEUR 299.

PROGRESS:
Students’ progress will be reviewed by the Program Chair at the end of each semester. Students must complete all courses, including the research requirement, with a grade of B- or better and may be withdrawn from the program at the end of a semester if the student’s record is unsatisfactory. Students wishing to be admitted to a second year of study must demonstrate adequate progress. Intent to complete a thesis will be reassessed at the time of readmission.

RESIDENCY:
The minimum residence requirement is one year. Students may take an additional one or two semesters to complete the MS degree as an Extended Master’s student with approval of Program Chair. International students may extend their time one semester if they are still completing required coursework. International students who have completed all required coursework and wish to complete the optional Master’s Thesis may stay an extra semester with advanced approval from the advising faculty, the Program Chair, and ISSO (by November 1st if completing the thesis in the spring semester and by March 1st if completing the thesis in the fall semester).
## Important Dates and Deadlines

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>July 18- September 14</td>
<td>Registration period for Fall 2018 Term</td>
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<tr>
<td>Wednesday, September 14</td>
<td>Last day to add classes Fall 2018 Term</td>
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<tr>
<td>Wednesday, November 1</td>
<td>Last day for Master’s students to submit thesis intent form to Program Chair and Graduate office to pursue a thesis in Spring 2019</td>
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<tr>
<td>Wednesday, November 1</td>
<td>Last day for February graduate degree candidates to file Application for Degree.</td>
</tr>
<tr>
<td>October 31 - November 5</td>
<td>Early Registration Period for Spring 2019 Term</td>
</tr>
<tr>
<td>Wednesday, November 14</td>
<td>Last day to drop a Fall 2018 course OR change grading option to audit (instructor's permission required).</td>
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<tr>
<td>Thursday, December 6</td>
<td>Deadline for submission of Research Report for 296 courses to Research Advisor, Program Chair and Graduate office.</td>
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<tr>
<td>December 5- January 29</td>
<td>Registration period for Spring 2019 Term</td>
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<tr>
<td>Tuesday, January 1</td>
<td>Deadline for submission of Master's Thesis to Thesis Advisor, Program Chair and Graduate office.</td>
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<tr>
<td>Tuesday, January 15</td>
<td>Deadline for submission of Certification of Master's Thesis Acceptance Form.</td>
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<tr>
<td>Wednesday, January 16</td>
<td>Final day for February graduate degree candidates to electronically deposit their dissertations or theses: 4pm deadline.</td>
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<tr>
<td>Tuesday, January 29</td>
<td>Last day to add classes Spring 2019 Term</td>
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<tr>
<td>Thursday, February 1</td>
<td>February degrees conferred.</td>
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<tr>
<td>Friday, March 1</td>
<td>Last day for Master’s students to submit thesis intent form to Program Chair and Graduate office to pursue a thesis in Fall 2019</td>
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<tr>
<td>Friday, March 1</td>
<td>Last day for May graduate degree candidates to file Application for Degree.</td>
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<tr>
<td>Friday, March 29</td>
<td>Deadline for submission of Master's Thesis to Thesis Advisor, Program Chair and Graduate office.</td>
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<tr>
<td>Tuesday, April 2</td>
<td>Last day to drop a Spring 2019 course OR change grading option to audit (instructor's permission required).</td>
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<tr>
<td>Friday, April 12</td>
<td>Deadline for submission of Certification of Master's Thesis Acceptance Form.</td>
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<tr>
<td>Monday, April 15</td>
<td>Final day for May graduate degree candidates to electronically deposit their dissertations or theses: 4pm deadline.</td>
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<tr>
<td>Monday, April 29</td>
<td>Deadline for submission of Research Report for 296 courses to Research Advisor, Program Chair and Graduate office.</td>
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<tr>
<td>Sunday, May 19</td>
<td>May degrees conferred at Commencement.</td>
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