The six-semester dual degree program combines the Professional Science Master’s program in Biotechnology with the Heller School’s Social Impact MBA. The Heller School for Social Policy and Management at Brandeis University has offered an MBA degree since 1998. The opportunity for biotechnology students to acquire additional leading edge management skills by studying at the Heller School, with its deep expertise in healthcare management, will optimally position them for leadership roles in a broad range of organizations in biotechnology and healthcare.

This intensive program requires a minimum of 96 credit hours taken over six consecutive semesters. Dual Heller MBA/MS BIOT applicants must fulfill all requirements for admission to both programs.

There is an optional thesis for the MS in Biotechnology for MS/MBA students. Interested students should speak with the DGS.

Students must receive grades of B- or better in all courses and may be asked to leave the program if their records are unsatisfactory.

Courses:
Students admitted into this dual degree program must fulfill the following core requirements (84 credits), along with 4 credits in science electives, for a total of 96 credits. The core requirements for the dual degree are shown as follows:
MBA Core Requirements (56 credits)
- HS 253b Leadership and Organizational Behavior (4)
- HS 412f Social Policy and Management Through the Lens of Equity (2)
- HS 518b Management of Healthcare Organizations (4)
- HS 246b Data, Models, and Decisions (4)
- HS 250a Financial Reporting and Analysis (4)
- HS 513a Issues in National Health Policy (4)
- HS 251b Managerial Accounting (4)
- HS 372b Economic Theory and Social Policy (4)
- HS 252b Strategic Management (4)
- HS 285a Marketing (4)
- HS 215b Corporate Finance (4)
- HS 232a Team Consulting Project Workshop (2)
- HS 299b Team Consulting Project (4)

MS Biotechnology Core Requirements (36 credits)
- BIOL 101 Molecular Biotechnology (4)
- BIOL 256 Biotechnology Project Laboratory (4)
- BIOL 205 Masters Proseminar (4)
- BIOL 251 Protein Biochemistry Laboratory (4)
- BIOT 203 Management for Biotechnology (4)
- BIOT 201 Business of Biotechnology (4)
- BIOL 100 Biochemistry, BIOL 100 Advanced Cell Biology, BIOL 102 Structural Molecular Biology, or BIOL 103 Mechanisms of Cell Function (all 4 credits each)
- CONT 300b (Responsible Conduct of Science) or the comparable Division of Science Responsible Conduct of Research workshop
- BIOT 212 Internship (12)

All students must enroll in BIOT 212, the summer internship, during the summer between Year 1 and Year 2.

Curriculum Plan:

First Year
Fall
BIOL 101 Molecular Biotech. (4)
BIOL 256 Biotech. Project Lab (4)
BIOL 205a Masters Proseminar (4)
HS 253b Leadership and Organizational Behavior (4)
HS 412f Social Policy and Management Through the Lens of Equity (2)

Spring
BIOL 251a Project Lab in Protein Biochemistry (4)
BIOT 203 Management for Biotechnology (4)
BIOT 201 Business of Biotechnology (4)
BCHM 100 Biochemistry, BIOL 100 Advanced Cell Bio., BIOL 102 Structural Molecular Biology, OR BIOL 103 Mechanisms of Cell Function (4 credits each)
Responsible Conduct of Research Workshop (non-credit)

Summer
BIOT 212 Internship (12)

Second Year
Fall
HS 518b Management of Healthcare Organizations (4)
HS 246b Data, Models, and Decisions (4)
HS 250a Financial Reporting and Analysis (4)
HS 513a Issues in National Health Policy (4)

Spring
HS 251b Managerial Accounting (4)
HS 252b Strategic Management (4)
HS 258a Operations Mgt. (4)
HS 372b Economic Theory and Social Policy (4)
Science Elective (4)

Summer
HS 285a Marketing (4)
HS 215b Corporate Finance (4)
HS 232a Team Consulting Project Workshop (2)
HS 299b Team Consulting Project (4)

**Summer Internships:**
In the summer between the first and second years of the program, all students are required to find an internship in a company, not-for-profit research institution, or academic research laboratory. There are numerous opportunities close to Brandeis and in the greater Boston area.

The process of finding an internship is student-led; the DGS and administrator are here to help, but students are expected to find their own internships. General guidelines on how to do this, a list of possible companies, and example cover letters and resumes will be provided.

Students are also encouraged to work with Career Services of the Graduate School of Arts and Sciences and the Hiatt Career Center to craft strong applications. Some students who do internships in industry find their employers through the Massachusetts Life Sciences Center Internship Challenge or by applying directly to the companies. Most students who do academic internships find labs by networking.

**Residency Requirement:**
The minimum residence requirement is two years.

**Chemical and Safety Trainings:**
All students must complete the appropriate chemical and safety trainings before they may begin in the lab. More information about these requirements will be explained during New Student Orientation. In addition, all students are required to attend the Division of Science Responsible Conduct of Research workshop.

**Evaluation of Graduate Student Performance in the Biotechnology Program**

**Yearly Readmission:**
In June/July of the first year, student progress will be evaluated, and students will receive a Progress Letter from the DGS. Remaining degree requirements will be noted in the letter, along with a suggested timeline for completion.

**Probation:**
Students may be placed on program-level probation as early as the end of first semester if grades in course work are unsatisfactory, and then asked to leave at the end of Year 1 if sufficient progress (as determined by the DGS) is not made in the second semester. Students may also be placed on program-level probation at the end of the first year for failing to make satisfactory progress. Any student on program-level probation will be reported as on an advising alert to GSAS.

Students may be placed on probation as early as the end of first semester if grades in course work are unsatisfactory, and then asked to leave at the end of Year 1 if sufficient progress (as determined by the DGS) is not made in the second semester. Students may also be placed on probation at the end of the first year for failing to make satisfactory progress.

**Other Resources**

**Graduate Student Research Seminars (BIOL 350):**
All students are welcome to register for and attend Friday Graduate Student Research Seminar Pizza Talks (BIOL 350), which are typically held on Friday afternoons. All Neuro and MCB PhD students present their thesis work annually starting in their third year.

**Journal Clubs:**
Students are welcome to register for and attend the journal clubs listed below to become more involved in the Brandeis Life Sciences community.

**Journal Clubs: (See course listings for times)**
- Topics in Neurobiology: NBIO 306
- Systems/Computational Neuroscience: NBIO 340
- Topics in Molecular Genetics and Development: BIOL 305

**Conferences**
GSAS provides conference and research awards for Master’s students. They also strongly encourage students to apply for external fellowships and grants—this gives you both the good experience of practice in articulating your research projects and, if you are successful, additional money!
Mentoring and Career Guidance:
The program director, administrator, and course instructors individually advise and mentor students. The Center for Career and Professional Development at the Graduate School of Arts and Sciences and the Hiatt Career Center provide career guidance one-on-one and with workshops. They also help with alumni networking and organize employer visits.

Teaching
Some Biotechnology students are hiring for teaching roles within the Biology department during their time at Brandeis.

Please visit the GSAS website for definitions of teaching roles. All students who serve as Teaching Assistants, Course Assistants, or Teaching Fellows must complete a series of trainings: the Office of Equal Opportunity training, the Supporting Students Outside of Academics training, the Pedagogy training, and (for international students who have not received a previous degree from a US college or university) the International Pedagogy training. Students only need to complete each training once and will receive emails in the semester they are first teaching with information about schedules and signing up.

Workday
Workday is where you register for courses and also allows you to access information about your own student record. For example, you can view your academic progress or check which required teaching training sessions you have completed. If you work an hourly job, you will also enter your hours there. There are many job aids that explain how to complete tasks in Workday.

Leaves of Absence
The university makes several kinds of leave available to graduate students: a health leave of absence, a personal leave of absence, and pregnancy accommodation and parental relief. You can view the full policies, including the processes for initiating and returning from a leave, in the Bulletin or on the GSAS website.

Questions
If you have questions you can contact your DGS:

Neil Simister (simister@brandeis.edu)

You may also contact your program administrator in the Division of Science Graduate Affairs Office:

Jane Theriault (jtheriault@brandeis.edu)
To reach the entire Graduate Affairs Office team, email scigradoffice@brandeis.edu

Please be aware that the University Bulletin is a legal document governing all academic regulations. If anything in this handbook contradicts the Bulletin, the Bulletin will take precedence. In addition, please be aware that in the event of a public health emergency or other major event, the procedures listed in this handbook may change.

Resources for graduate students and ways to get help
At many points during your graduate career, you will probably have questions you’d like to ask someone, great ideas you’d like to share, or concerns you’d like someone to address. Please know that there are many people here on campus to answer those questions, help, and support you. Before we go into specifics of who to ask for help, please know that the majority of people on campus are “responsible reporters.” This means that they are obligated to share any information that has been disclosed to them regarding discrimination, harassment, or sexual misconduct with the Office of Equal Opportunity. If you are hoping to have a confidential conversation about one of these topics, you will find a list of confidential resources later in this section.

Most issues can be best addressed by those closely associated with your graduate program or with Division of Science staff and faculty, so we encourage you to seek assistance from this group first. We recognize that sometimes there may be a particular person that you are more comfortable speaking with or that one faculty member may be holding multiple roles/positions, but we suggest that you reach out for assistance in the following general order (see schematic at the bottom as well):

- **DGS (Director of Graduate Study, or chair of your grad program):** This faculty member oversees your grad program as a whole, and is here to support all students in the program. They will be extremely knowledgeable in the program’s requirements and are also tuned in to the current GSAS and University policies. The specific faculty member who fills this role may change from year-to-year, so check with your program administrator or check your program website for the current DGS first. *In academic year 2023-2024, your DGS is Neil Sinister.*

- **Your PI, if you join a lab:** Your first stop will most often be your PI, if you have one. They may have the most intimate knowledge of your research/program progress and career goals, and are here to help train and guide you. PIs usually have regular meetings with their students and you can talk about issues that concern you, in addition to discussing your research project.

- **Your department’s Chair:** This faculty member oversees the program that your grad program falls under and is a step above your DGS. If you have concerns that aren’t necessarily specific to your grad program but are relevant to the department as a whole, the chair may have good insight. Chairs are good to talk to if concerns are shared with other populations in the department such as staff, postdocs, or undergraduates. The specific faculty member who fills this role may change from year-to-year, so check with your program administrator or check your program website for the current Chair. *In academic year 2023-2024, your department chair is Liz Hedstrom.*

- **The Head of the Division of Science:** This faculty member oversees the entire Division of Science, and works to support all of the departments and graduate programs within the sciences. The head of the Division of Science has frequent meetings with individual program and department chairs, as well as with leaders across the University, so they will be knowledgeable about current Division and
University practices. They are here to support and advocate for the entire science community. Talk to them if people from different graduate programs or departments have a shared concern or to raise. In particular, concerns about research integrity should be brought to the attention of the Head of the Division of Science. As with the DGS, the faculty member in this role can change from time-to-time. In academic year 2023-2024, the chair of the Division of Science is Bulbul Chakraborty.

In parallel to these program-level and Division-level faculty resources, there are non-faculty resources within the Division who you can go to for help. The following are good places to go to for help:

- **The Division of Science Grad Affairs Office**: This office is the administrative home for most of the graduate programs within the Division of Science, including yours. The staff here work closely with grad students and faculty administratively oversee those graduate programs and student progress. The staff in this office know your program’s faculty, are well-versed in your program’s requirements and policies, and are up-to-date with the other sources of support on-campus. If you are unsure about who to talk to first, the DivSci is often a good place to start as they can help you decide who to approach and how to have that conversation. Within this office, Jane Theriault is the primary contact for your graduate program. You should also feel free to contact Maryanna Aldrich, who oversees this group.

- **Your Department Administration**: These staff work in your department’s office and are here to help their entire department community. These staff may be a bit less familiar with your graduate program requirements, but they know your department’s faculty and any non-grad-program details about your department well.

- **The DivSci Pre-Award Office**: If you are applying for grants or fellowships, please loop these staff in. They may be able to provide guidance and help you navigate the submission process.

- **Your program’s Grad Department Representatives (GDRs)**: These graduate students were elected to represent the student body. One of the roles of the GDR is to bring concerns from students as a whole to the program faculty or to GSAS, so if you have a concern that you are comfortable discussing with your GDR it’s a good idea to let them know. They cannot bring these concerns to the faculty to advocate for all students if they don’t know about them, and there may be other students with similar concerns. Your GDRs may hold a student “town hall” once a semester or year to bring up issues, and this is a good forum to discuss some topics that may be weighing on your mind. New GDRs are elected each year early in the fall semester.

- Below is a flow chart demonstrating the general hierarchy of sources of support:
Outside of the general hierarchy of Division of Science places to go to for help, that are various other entities on campus here to support students. These resources on campus are dedicated to supporting graduate students:

- **The Graduate School of Arts and Sciences (GSAS):** GSAS oversees all graduate programs within the school of Arts & Sciences at Brandeis and is invested in the success of all graduate students in these programs. If you have a topic that you’d rather discuss with someone outside of the Division or want a non-DivSci perspective on, the staff in this office are a great resource for graduate students. GSAS is also a good resource if you are uncomfortable discussing a topic with any of the resources mentioned so far or if you have not made sufficient progress in those discussions. Depending on the topic that you have raised with faculty or administrative staff, they may have already contacted GSAS for advice/assistance on how to help or to handle the next steps. GSAS and your program/department faculty or the Head of the Division of Science frequently work together to support students, resolve problems, and enact positive changes. Please visit their [staff directory](#) to explore the areas GSAS can help with. If you are in a research group with limited funding, GSAS provides conference and research awards for [PhD students](#) and [Master’s students](#). They also strongly encourage students to [apply for external fellowships and grants](#).
- **The Office of Graduate Affairs**: This office is a home and source of support for all graduate students at Brandeis, including those studying at the Heller School, the Rabb School, or the International Business School. Graduate Student Affairs provides students with information and events about graduate life at Brandeis and community resources.

- **The Graduate Student Association (GSA)**: Supported by The Office of Graduate Affairs, the GSA is an independent student body that represents all graduate students and provides a platform for graduate students to raise issues and concerns and build community. If you have a concern about an issue affecting graduate students that extends past your program, department, and the Division of Science, the GSA is a good group to talk to. To connect with them, visit their website to see the current year’s grad student executive committee.

- There are some offices on campus that specialize in specific topics and who will almost always be the best resource for those topics:

- **The Office of Research Administration (ORA)**: ORA, which reports to the Vice Provost for Research, can help with issues related to research integrity and compliance. If you want to discuss the possibility of research misconduct, you may wish to report things there directly.

- **The International Students and Scholars Office (ISSO)**: ISSO supports all of Brandeis’ international students and scholars. This office determines visa eligibility and prepares and issues visa documents. If you ever have any questions about your Visa or any of the associated regulations (e.g., travel, CPT, OPT), you should reach out to your ISSO advisor. They can advise students on rights and responsibilities and provide guidance regarding issues that may impact their legal status. Their website also has a collection of useful information for international students.

- **Student Accessibility Support**: If you are a student with a disability and in need of academic or non-academic accommodations, this office can support you and help you navigate this process. The definition of a person with a disability is broad, and many students who do not think of themselves as students with disabilities may qualify for support under the law. Even if you are not sure if you will qualify, you are encouraged to reach out to SAS.

- As mentioned at the start of this section, there are some topics that responsible reporters on campus cannot keep confidential, and those are issues of discrimination, harassment, or sexual misconduct. The office on campus that addresses these issues is the Office of Equal Opportunity (OEO). OEO provides information regarding support resources, information about taking action (internal resolution processes and criminal action), inquiries and investigations into concerns, processes to address grievances, and training for the Brandeis community. Please visit their website for contact information and steps (and an online form) to file a report. You are welcome
to contact a resource listed above for support or advice about these topics, but they will be obligated to share the issue with OEO.

- If you would like to have a confidential conversation with someone on campus, the following are our on-campus confidential resources:
  - **The Brandeis Counseling Center (BCC)**
  - **The Brandeis Health Center**
  - **The Prevention, Advocacy, and Resource Center (PARC)**
  - **The University Ombuds**
  - **The Chaplains in The Center for Spiritual Life**