

QBS MS STUDENT HANDBOOK

Revised 2024

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Introduction

The Quantitative Biomedical Sciences (QBS) graduate program at Dartmouth, which encompasses the MS degrees of Epidemiology, Health Data Science, and Medical Informatics, trains students across the disciplines of Biostatistics, Bioinformatics, Epidemiology, Health Data Science, and Medical Informatics, producing graduates who are highly qualified for productive careers in industry, research, and academia in a broad range of quantitative and investigative areas.

In this handbook, *first-year student* is used to describe a student entering the program. The word *faculty*, where not specified otherwise, refers to QBS program faculty.

All students are expected to adhere to the Honor Principle and the Student Code of Conduct as described in the [Guarani School of Graduate and Advanced Studies Academic Policies](#).

Students who matriculate Fall 2021 or later may not take more than four units of course work per quarter unless approved by the QBS administration and leadership. In the Fall term, this unit limit does not include QBS 700 Responsible and Ethical Conduct of Research.

Throughout this handbook, required courses are also referred to as core courses.

Academic calendar

The QBS Master's programs follow Dartmouth College's [Academic Calendar](#) for holidays and institutional breaks.

The QBS Master's degree programs are designed to be completed in 12 or 15 contiguous months, starting the Summer of the academic year of matriculation, and ending the Spring or Summer of the following academic year.

It is the expectation that students will complete the program within this time; however, in cases where a student needs to take a leave of absence, they should seek approval from the QBS administration. Students seeking a leave should adhere to term check-in guidelines as established by the Registrar of the Guarani School of Graduate and Advanced Studies. Leaves of absence will follow the refund policies set forth by the Financial Aid Office and Student Financial Services.

In cases of financial hardship or approved leaves of absence, MS students will have three years from the date of matriculation to complete the degree requirements.

Grading and academic probation

All grading will be in accordance with the [Guarani School of Graduate and Advanced Studies Satisfactory Progress](#) guidelines.

QBS core, capstone, and elective courses are graded as HP (High Pass), P (Pass), LP (Low Pass), or NC (No Credit). QBS journal clubs are graded either CT (Credit) or NC (No Credit). For the complete list of QBS courses that receive grades of CT/NC, see the [Appendix](#).

Grade standards

The following statements describe the policies and procedures that apply to students in the MS programs whose academic performance is unsatisfactory.

Grades of LP or NC in core courses have serious consequences. Students who receive more than one NC, or more than two LPs, during one term or over multiple terms, may be suspended or dismissed from the program after an assessment hearing by the QBS Advisory Committee.

Unless otherwise approved by the QBS Advisory Committee, students cannot graduate with three or more LPs on their transcripts without retaking one or more of those courses, regardless of the number of units a course is assessed. The NC or LP grade remains on a student's academic record, regardless of the grade received in a course that is retaken, and is counted toward any future probationary, suspension, or dismissal actions. If a student retakes a NC course and receives a second NC, the student may be dismissed from the program.

Academic probation

1. A student who receives one NC grade or one LP in their courses will automatically be placed on academic probation during the following term, and their performance will be assessed by the Advisory Committee.
2. At the end of a term during which a student has been on probation, the Advisory Committee will review the student's progress. If academic progress is judged to be satisfactory, the student will be removed from probation. Normally, satisfactory academic progress will mean a Pass grade or equivalent in current courses and fulfillment of any requirements that were recommended in the assessment hearing for removing deficiencies, but the Committee may require other evidence, such as a report on research performed. If progress has not been satisfactory, the Advisory Committee may recommend the student remain on probation or be dismissed from the program.
3. If after being removed from probation a student receives a grade of LP or lower, the Advisory Committee will review the student's progress and will either place them on probation or recommend to the Director that the student be separated from the program.
4. Students who are suspended for academic reasons, who withdraw in questionable academic standing, or who withdraw while on academic probation must present positive evidence of the ability to resume satisfactory progress when applying for readmission.
5. Students subject to an assessment by the Advisory Committee are permitted to prepare a statement describing circumstances that may account for their poor grades.

QBS journal clubs

The QBS program offers a wide variety of journal clubs. Master's students may fulfil elective credit requirements by taking up to three journal club courses. All QBS journal clubs are 0.5 units.

In years that QBS 102 Scientific Writing is offered, this may substitute for one journal club course.

All students may pursue an independent journal club option. Students must identify a faculty member as an instructor and send the QBS administration a description of the theme and material to be covered during the course. This does not have to include specific papers that will be studied, but it should outline a weekly schedule and state how often the student and instructor will meet and review the literature. Meeting time should be at least one hour per week, in addition to at least three hours per week of work outside meetings. No more than one independent journal club may count toward elective credit for. All proposals are due by a given deadline before the end of the add/drop period for that quarter. Students register for QBS 193 Independent Journal Club upon approval of their proposed theme and material.

If multiple students are interested in the same independent journal club, students should inform the QBS administration of their intentions, and only one description and syllabus need to be submitted for approval.

All QBS journal clubs are 0.5 units, but units may differ for journal clubs offered through other departments and programs. QBS 193 does not count toward Epidemiology Master's elective credit.

With approval from the QBS administration, QBS 193 Independent Journal Club can count toward the journal club requirement.

Independent study

Students may opt to pursue QBS 195 Independent Study as an elective credit. Independent study in QBS is structured to allow students to explore subject matter and enhance their knowledge in QBS-related fields. The arrangement and a course outline are to be developed between the student and a QBS faculty member prior to the start of the quarter and submitted to the QBS administration before the end of the add/drop period for approval. The proposal should reflect 3.3 hours of instruction per week, and at least 6.6 hours of student work per week throughout the term.

The student and faculty will work together to structure the study program and set goals that are to be met by the end of the course. The course of study may include, but is not limited to, literature review, seminar attendance, online course material, small projects, and presentations related to the specific field being studied. The faculty member is responsible for tracking and evaluating the student's progress and reporting a grade to QBS administration at the end of the term. No more than one independent study may count toward elective credit for MS students.

Students may use QBS 195 to earn credit for approved online courses. Students may not pursue research credit courses in other departments outside of the QBS 195 Independent Study mechanism.

Graduate student teaching

Teaching is not required of Master's degree students, and undertaking a teaching assistantship will not directly waive tuition or fees. However, students have the option to pursue available teaching assistantship positions posted through Dartmouth College. QBS offers paid teaching assistantships, and QBS administration will notify students of the availability of these positions.

QBS students must attend [DCAL TA Orientation and Training](#) prior to the quarter in which they will TA unless otherwise approved by QBS administration.

For more information about [teaching assistantships](#), including [responsibilities and expectations](#), see the [Appendix](#).

Separation from the program

If a student faces potential separation from the program due to course grades or other reasons that conflict with the [Graduate Student Nondiscrimination Grievance Procedures of the Guarini School of Graduate and Advanced Studies](#), the QBS Advisory Committee will be convened to review the student's overall record and the pending separation prior to final action. The QBS Director will serve as chair of the meeting unless there is a conflict of interest. In such case, a senior member of the QBS Advisory Committee will serve as chair. Faculty members who feel they might have a conflict of interest that

would compromise their ability to make a fair and impartial decision should remove themselves from associated meetings. The Advisory Committee will function as a democratic committee with a single vote for each faculty member present and the final decision will be arrived at by a majority vote.

The overall performance of the student will be reviewed with respect to whether the student is qualified for a productive scientific, or related, career and as to their potential capacity for achieving a MS level of scientific expertise within a reasonable timeframe. The Advisory Committee will also consider any extenuating circumstances brought to their attention by the student or other informed party that may have contributed to the poor performance. In extraordinary instances, the Advisory Committee may recommend an alternative course of action to that which would normally be stipulated by the QBS rules and regulations for the circumstances that prompted the review process. Such a recommendation requires a two-thirds majority vote of the Advisory Committee.

In cases where financial hardship is the reason for separation, the student will have three years from the date of matriculation to complete the MS Degree requirements for their concentration.

QBS student grievance policy

The process for guiding graduate student progress in QBS, while primarily designed to oversee scientific progress and direction, is also intended to guard against biased treatment of any individual. The program has established a grievance process, consisting of multiple stages, to ensure that student grievances will be investigated fully and fairly, treated confidentially, and resolved in a timely manner. With an effective oversight and grievance committee structure, few grievances or disputes will reach the stage where they require formal resolution from the Guarini Graduate School offices. However, when resolution is not feasible or successful at the program level, the Guarini Graduate office is the next place to turn. A grievance may be handled as appropriate in the following stages.

1. When possible, and if the student is comfortable doing so, the student speaks directly to the person who bears responsibility for the complaint or who is the alleged cause of the complaint.
2. The student speaks to the research advisor, if applicable.
3. The student speaks to the QBS Director or administration.
4. If a satisfactory resolution cannot be reached within the department or program, the student may request a meeting with the Dean of Graduate Studies to discuss the issue.
5. If the Dean, working together with the student and appropriate faculty member(s), or representatives of the QBS program is unable to reach a satisfactory resolution, the student may request in writing a formal hearing and ruling by the Dean of Graduate Studies and the Committee on Student Grievances.

Allegations of scientific misconduct, violations of the academic honor principle, and certain issues of professional and personal conduct (sexual harassment, discrimination, and others described in the graduate handbook under code of conduct - non-academic regulations) must be reported to and handled by the Graduate office. Additional information about Guarini Policies and Procedures can be found in the [Guarani School of Graduate and Advanced Studies Academic Policies](#).

Master of Science degrees

The QBS program offer three Master's degrees: Health Data Science, Epidemiology, and Medical Informatics. The program is designed to be completed in 12-15 months, starting the Summer of the academic year of matriculation, and ending the Spring or Summer of the following academic year. Students can elect to take an optional 3-unit capstone in the summer of the academic year after they matriculate. Each concentration requires completion of 15 units of coursework, comprised of core courses and approved elective courses.

Students entering the program are expected to have coursework in calculus and programming or to have demonstrated their experience in these areas. They are expected to be ready to use techniques of calculus, including differentiation and integration of multivariable functions, and to be comfortable with programming and scripting languages, both procedural and objected-oriented, such as R and Python. Students who lack these skills are strongly encouraged to acquire them before the start of the program. All Master's degree students take an introductory R programming course in their first Summer quarter.

Master of Science degree in Health Data Science

The QBS Master of Science degree in Health Data Science provides training in data wrangling, exploratory data analysis, statistical modeling, machine learning, data visualization, and communication. Graduates acquire competencies in the management, analysis, and interpretation of data from health care, medicine, computational biology, pharma, and genomics. Health Data Science students take interdisciplinary courses that position them with competitive advantages for careers in biostatistics, epidemiology, and data science, including artificial intelligence, with specific emphasis on problems in healthcare and biomedicine that translate to academia and industry. Students complete 10.5 required units of coursework and 4.5 units of electives during the four quarters in residence.

Requirements

1. Satisfactory completion of the following courses.

- QBS 101 Foundations of Programming for Data Scientists (1.5 Units)
- QBS 103 Foundations of Data Science (1.0 unit)
- QBS 108 Machine Learning (1.0 unit)
- QBS 119 Applied Biostatistics or QBS 120 Foundations of Biostatistics I (1.0 unit)
- QBS 121 Foundations of Biostatistics II (1.0 unit)
- One of the following (1.0 units each)
 - QBS 122 Biostatistics III Modeling Complex Data y
 - QBS 124 Advanced Biomedical Data Analysis
 - QBS 126 Analysis of Densely Collected Longitudinal Data
 - QBS 146 Bioinformatics I
- QBS 130 Foundations of Epidemiology I (1.0 unit)
- QBS 177 Methods of Statistical Learning for Big Data (1.0 unit)
- QBS 181 Data Wrangling (1.0 unit)
- QBS 180 Data Visualization (0.5 unit)
- QBS 194 or QBS 270 Biostatistics Journal Club (0.5 unit)

2. Satisfactory completion of 4.5 units of approved graduate level elective courses.
3. Completion of QBS 700 Responsible and Ethical Conduct of Research is required of all first-year graduate students but does not count toward core or elective degree credit.
4. Optional capstone requirements:
 - QBS 185.5 Capstone Preparation Course
 - If the capstone is not taken, these 0.5-unit capstone preparation courses may serve as 0.5-unit elective courses each.
 - If the capstone is taken, these 0.5-unit capstone preparation courses will count toward core units, now increasing core unit total to 11.5 units total. 3.5 units of electives will be required in such a case instead of the 4.5 prescribed units to reach 15 total units according to degree requirements.
 - QBS 185 QBS MS Capstone Experience

Master of Science degree in Epidemiology

The QBS Master of Science degree in Epidemiology provides advanced training in epidemiologic methods and supporting training in biostatistics, bioinformatics, data analysis, and translational research. Graduates acquire competencies in the theory and application of epidemiologic methods to complex problems in population health. Epidemiology students receive interdisciplinary training for careers in biomedical research, government agencies, private industries, and nonprofit health organizations. Students complete 11 required units of coursework. At least 4 units of elective courses are required during the four quarters in residence.

Requirements

1. Satisfactory completion of the following courses.
 - QBS 101 Foundations of Programming for Data Scientists (1.5 unit)
 - QBS 103 Foundations of Data Science (1.0 unit)
 - QBS 119 Applied Biostatistics or QBS 120 Foundations of Biostatistics I (1.0 unit)
 - QBS 121 Foundations of Biostatistics II (1.0 unit)
 - QBS 130 Foundations of Epidemiology I (1.0 unit)
 - QBS 131 Foundations of Epidemiology II (1.0 unit)
 - QBS 132 Molecular Biologic Markers in Human Health Studies (1.0 unit)
 - QBS 133 Clinical Epidemiology (1.0 unit)
 - QBS 136 Applied Epidemiological Methods I (1.0 unit)
 - QBS 146 Foundations of Bioinformatics I (1.0 unit)
 - QBS 270 QBS Journal Club (Epidemiology) (0.5 unit)
2. Satisfactory completion of 4 units of approved graduate level elective courses.
3. Completion of QBS 700 Responsible and Ethical Conduct of Research is required of all first-year graduate students but does not count toward core or elective degree credit.
4. Optional capstone requirements:
 - QBS 185.5 Capstone Preparation Course
 - If the capstone is not taken, these 0.5-unit capstone preparation courses may serve as 0.5-unit elective courses each.

- If the capstone is taken, these 0.5-unit capstone preparation courses will count toward core units, now increasing core unit total to 11.5 units total. 3.5 units of electives will be required in such a case instead of the 4.5 prescribed units to reach 15 total units according to degree requirements.
- QBS 185 QBS MS Capstone Experience

Master of Science degree in Medical Informatics

The QBS Master of Science degree in Medical Informatics provides students access to interdisciplinary courses, positioning individuals to have competitive advantages for data-driven careers in healthcare and biomedicine that translate to academia and industry. Students complete 10.5 units of required coursework that brings together data wrangling, exploratory data analysis, programming, statistical learning, epidemiology, medical informatics, health services research, data visualization and communication. At least 4.5 units of elective coursework are required during the four quarters in residence.

Requirements

1. Satisfactory completion of the following courses.
 - QBS 101 Foundations of Programming for Data Scientists (1.5 units)
 - QBS 103 Foundations of Data Science (1.0)
 - QBS 119 Applied Biostatistics or QBS 120 Foundations of Biostatistics I (1.0 unit)
 - QBS 121 Foundations of Biostatistics II (1.0 unit)
 - QBS 130 Foundations of Epidemiology I (1.0 unit)
 - QBS 139 Advanced Methods in Health Services Research (1.0 unit)
 - QBS 140 Decision and Cost Effectiveness Analysis (1.0 unit)
 - QBS 180 Data Visualization (0.5 units)
 - QBS 181 Data Wrangling (1.0 unit)
 - QBS 192 Health Informatics (1.0 unit)
 - PH 147 Advanced Methods in Health Services Research Project OR any approved QBS Journal Club (0.5 units)
2. Satisfactory completion of 4.5 units of approved graduate level elective courses.
3. Completion of QBS 700 Responsible and Ethical Conduct of Research is required of all first-year graduate students but does not count toward core or elective degree credit.
4. Optional capstone requirements:
 - QBS 185.5 Capstone Preparation Course
 - If the capstone is not taken, these 0.5-unit capstone preparation courses may serve as 0.5-unit elective courses each.
 - If the capstone is taken, these 0.5-unit capstone preparation courses will count toward core units, now increasing core unit total to 11.5 units total. 3.5 units of electives will be required in such a case instead of the 4.5 prescribed units to reach 15 total units according to degree requirements.
 - QBS 185 QBS MS Capstone Experience

4+1 program

QBS offers a 4+1 option to Dartmouth undergraduates, allowing students to complete their Master's degree in 9 months after earning their Dartmouth undergraduate degree. 4+1 students are required to complete three eligible courses toward the QBS Master's degree while they are undergraduates. The three eligible courses do not need to be complete before application submission, but they should be finished by completion of the undergraduate degree.

Students must satisfy the degree requirements for their degree, inclusive of the three units completed as an undergraduate student.

Courses cross-listed at the graduate level in the Basic/Life sciences, Math, Computer Science, Engineering, Psychological & Brain Sciences, and Physics & Astronomy may qualify for the 4+1 program.

Master's students transferring to the PhD program

Master's degree students may apply to the QBS PhD program in their first or second years. They must meet the same application deadlines as other applicants for the PhD program. Applications will be reviewed and measured against the quality of all applications submitted that year. No preference will be given to applications of QBS MS students.

Master's degree students who are accepted to the PhD program have several options, depending on their decision whether to complete the Master's degree, and when they intend to begin the PhD program. All students transitioning from the MS to the PhD should meet with QBS administration to discuss credit for completed courses, course selection, fulfillment of requirements, and required rotations.

Students who complete the MS degree may transfer up to six units to the PhD.

Prior to matriculation to the PhD program, tuition and fees will apply for terms when the student is enrolled.

Appendix

Teaching assistant positions

To be eligible to TA a class, a student must have completed that course with a grade of CT, HP, or P, unless otherwise approved by the instructor, or have taken a similar course that provides them with sufficient background to TA the course. Students will register for QBS 196 prior to the quarter in which they are assigned to TA. A grade of CT or NC will be assigned at the end of the quarter in which they are a TA.

TAs should be in contact with the instructor regarding specific TA requirements for the course. Communication with the course instructor is important, and it is recommended that students and instructors be in communication in the weeks prior to class regarding preparation and expectations. If at any time a student feels as though they are being asked to perform duties beyond the scope of the responsibilities listed below or has concerns, they need to contact the QBS administration.

Opportunities are available for students wishing to participate in more than one quarter of teaching. This requires that adequate teaching positions are available to accommodate interested students and that their advisor agrees. Contact the QBS administration for additional details if interested.

Typically, TAs are expected to begin their duties no more than one week prior to the start of a course, and they need to be available until the final grades are submitted, normally one week after the exam period. If because of illness or other legitimate reasons students are unable to meet their teaching obligations in each quarter, they should inform the instructors and QBS administration so that adequate replacements can be found.

TA responsibilities and expectations

1. Hold regular and consistent office hours.
 - It is recommended TAs poll students as to when they are generally available.
 - It is strongly suggested TAs do not use personal lab space or office for office hours. If a student would like to arrange a consistent space, they should contact QBS administration.
 - TAs should discuss with the course instructor what the appropriate types of questions are to address during office hours. TAs should be able to ask students who have made no attempt at a problem, come unprepared, or come seeking general information that they are capable of obtaining on their own, to return when they have made their best efforts to achieve a solution.
2. Manage the course Canvas site.
3. Grade exams and homework.
 - Solutions are to be provided by the instructor.
 - All final grades are to be reviewed by the instructor.
 - Grade grievances should be addressed by the instructor.
4. TAs are not expected to prepare or deliver lectures or design course material unless mutually agreed upon with the instructor.
5. TAs do not need to be present at all lectures unless the instructors provide a valid reason for certain lectures they wish TAs to attend.

6. TAs should provide timely responses to students. Availability to students outside of office hours is at their own discretion.
7. Teamwork is an essential element as most courses will have two or more TAs.
8. Plan to have regularly scheduled meetings with the instructor to keep open communications about expectations, obtain feedback, and address any concerns or questions.
9. Instructors have been asked to provide their TAs with constructive feedback about their performance, and any student feedback that was provided on evaluations at the end of the course. TAs should follow up with their instructors to obtain their evaluations.
10. The expected weekly commitment to a course is 10 to 12 hours per week.
11. TAs for courses that are remote, or on campus with remote components, should discuss expectations with the course instructor.

QBS faculty

Being a member of the QBS faculty carries responsibilities such as attending program seminars, participating in QBS sponsored events, taking QBS students for research rotations, supervising dissertation students, service on program committees, and helping with recruit interviews during our recruiting season.

Becoming QBS faculty

Members of the Dartmouth community who wish to become QBS faculty must submit their Biosketch and CV and a letter of intent to the QBS administration stating why they would like to join and why they would be a good fit for the QBS program. This information is distributed to the QBS Advisory Committee who must provide a majority affirmative vote for this individual to join the QBS program.

Committees

Faculty are expected to serve on QBS qualifying and QBS dissertation committees if their area of expertise is appropriate to do so. QBS faculty may also be approached by the chairs of their respective departments to serve on the QBS Advisory Committee. Faculty are also expected to serve as ad hoc members on admissions committees.

Other responsibilities

- Participation in the QBS interview process: Interviewing students, providing evaluations, and attending social events
- Attending and participating in the QBS retreat and other yearly QBS community seminars, outreach, and social events

QBS administration

QBS is overseen by the Director of the program, the Associate Director, and the QBS Advisory Committee, each position lasting for a two-year term. The QBS Director and administrative team oversee the daily activities of the program. The QBS Associate Director is second in command and petitions the Advisory Committee for election to the position. If elected, the Associate Director serves a term of two years, after which they assume the position of QBS Director. The election of the Associate Director is determined by a majority vote of the Advisory Committee. The Associate Director is effectively the director-in-training and holds distinct and shared responsibilities that aid the QBS Director and administration of the program.

Advisory Committee

The Advisory Committee consists of seven members, two from each of the represented disciplines (Bioinformatics, Biostatistics, and Epidemiology), appointed with voting privileges by their respective department chairs. The QBS Director is the seventh member serving as the chair of the Advisory Committee, in an officiating, nonvoting role. The QBS Director will cast the deciding vote in cases of a tie or plurality vote. The Associate Director remains one of the six voting members of the Advisory Committee. The term for all Advisory Committee members is a minimum of two years. In the absence of the Director, the Associate Director will assume authority of the Advisory Committee and programmatic matters as they arise.

Intention to resign from the committee, except under unexpected personal or professional circumstances, must be expressed to the committee and their respective department chair at least two months in advance such that a suitable replacement can be found. The Advisory Committee meets at least twice per year at approximately six-month intervals or as needed. Decisions regarding major programmatic issues are put to a vote and implemented by the Director, Associate Director, program administration, and QBS faculty where appropriate. For routine decisions, the Director and Associate Director will act in their best judgment. The QBS Advisory Committee members also serve on PhD and Master's degree admission committees in conjunction with selected QBS PhD student representatives and chair-approved ad hoc members appointed as needed.

QBS Curriculum Committees

The QBS Curriculum Committee chairs are selected from the QBS Advisory Committee, and committee composition is established by discipline and specific departments: Epidemiology, Biomedical Data Science, and Bioinformatics. The primary responsibility of each Curriculum Committee is to oversee the quality of QBS courses. They evaluate the content and sequence of the Master's program curriculum and suggest appropriate modifications to department chairs and the QBS Advisory Committee.

All QBS courses that have four or more students registered are provided course and instructor feedback through student course evaluations in Banner at the end of each quarter. Feedback is reviewed by the Director of Academic and Student Affairs, the QBS Director, and QBS Curriculum Committee chairs quarterly. Students may also express concerns about a course to the QBS administration and leadership at any time during the quarter. The Curriculum Committee chairs discuss feedback from courses with course directors after review.

When a concern is raised about a course's quality by the QBS Curriculum Committee chair, QBS leadership, or members of the QBS Curriculum Committee, the chair and the committee will provide support to the course director and department chair in creating an action plan for course improvement. The Curriculum Committee and department chairs are responsible for evaluating whether the concerns have been sufficiently addressed after the next offering of the course. Curriculum Committees may also identify scientific gaps and market competitiveness, and review syllabi, sample lecture slides, and homework assignments from each course when it is first offered by an instructor or substantially modified.

CT/NC courses

- QBS 110 Integrative Biomedical Sciences Seminar
- QBS 110.5 Integrative Biomedical Sciences Seminar Project

- QBS 187 QBS PhD Student Internship
- QBS 193 Independent Journal Club
- QBS 194 Biostatistics Journal Club
- QBS 196 Supervised Teaching in QBS
- QBS 197 Graduate Research in Quantitative Biomedical Sciences I
- QBS 198 Graduate Research in Quantitative Biomedical Sciences II
- QBS 199 Graduate Research in Quantitative Biomedical Sciences III
- QBS 270 Quantitative Biomedical Sciences Journal Club
- QBS 271 Advanced Epidemiology Journal Club
- QBS 297 Advanced Graduate Research in Quantitative Biomedical Sciences I
- QBS 298 Advanced Graduate Research in Quantitative Biomedical Sciences II
- QBS 299 Advanced Graduate Research in Quantitative Biomedical Sciences III
- QBS 700 Responsible and Ethical Conduct of Research