



THE UNIVERSITY OF CHICAGO

**COMMITTEE ON GENETICS,
GENOMICS & SYSTEMS BIOLOGY
([GGSB](#))
Graduate Program Handbook**

**Molecular Biosciences Cluster
Biological Sciences Division**

2023-2024 Academic Year

COMMITTEE ON GENETICS & GENOMICS & SYSTEMS BIOLOGY (GGSB)
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NOTE: The GGSB Handbook is updated annually. The information provided is subject to change and may not be reflected in this version. Please contact the Graduate Education Administrator or GGSB Chair for clarification and questions as needed.

Updated December 2023

ACADEMIC CALENDAR

Autumn Quarter 2023

September 4	Labor Day
September 11-15	Prelim Examinations Week
September 18-22	Orientation week
September 26	Autumn Quarter classes begin
October 18	Dissertation Office Draft Deadline for Autumn 2024 graduation
October 20-21	Molecular Biosciences Cluster Retreat
November 7	Winter 2022 Quarter rotation decisions due
November 8	Final Dissertation Submission Deadline Autumn 2024 graduation
November 20-24	Thanksgiving Break
December 9	Autumn 2023 Quarter ends

Winter Quarter 2024

January 3	Winter Quarter classes begin
January 15	Martin Luther King, Jr. Day observance
January 24	Dissertation Office Draft Deadline for Winter 2024 graduation
February 17	Spring Quarter rotation decision due
February 13	Final Dissertation Submission Deadline Winter 2024 graduation
March 9	Winter Quarter ends

Spring Quarter 2024

March 18	Spring Quarter classes begin
April 6	Thesis Advisory Committee members due (Second year students)
April 10	Dissertation Office Draft Deadline Spring 2024 graduation
May 11	Date for Qualifying Exams due (Second year students)
May 14	Summer Quarter rotation decision(s) due (First year students)
May 1	Final Dissertation Submission Deadline Spring 2024 graduation
May 27	Memorial Day Holiday
May 30	Divisional Academic Ceremony - Spring 2024
June 1	Spring 2024 Convocation
June 1	Spring Quarter ends
May - June	Qualifying Exams held

Summer Quarter 2024

June 10	Summer Quarter begins
July 4	Independence Day observance
July 3	Dissertation Office Draft Deadline Summer 2024 graduation
July 24	Final Dissertation Submission Deadline Summer 2024 graduation
August 17	Summer Quarter ends

Helpful Links

[Academic Calendar](#)
[Biological Sciences Diversity and Inclusion](#)
[Dissertation Office](#)
[Resources for Current Students](#)
[Office of Graduate and Postdoctoral Affairs](#)
[Office of International Affairs](#)
[BSD & University Policies](#)

COMMITTEE ON GENETICS, GENOMICS & SYSTEMS BIOLOGY ADMINISTRATION

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OTHER UNIVERSITY OFFICES

Main Number - University	773/702-1234
Main Number - Hospitals	773/702-1000
Campus Police (Call 123 from any University phone)	773/702-8181
University Voice Directory	773/702-1610
Student Health	773/702-4156
Student Counseling	773/702-9800
Student Disability Services	773/702-6000
Student Insurance (USHIP)	773/834-4543 (option #2)

COMMITTEE ON GENETICS, GENOMICS & SYSTEMS BIOLOGY WEBSITE: ggsb.uchicago.edu

Mission Statement of the Committee on Genetics, Genomics & Systems Biology (GGSB) at the University of Chicago:

The Committee on Genetics, Genomics & Systems Biology (GGSB) is a diverse scientific hub, bringing together the knowledge of over 70 faculty members with a wide range of interests centered on Genetics. With an unwavering focus on the future, GGSB dedicates itself to cultivating scholars primed for impactful roles as independent scientists. Our training program, harmoniously weaves foundational genetic knowledge with modern approaches, empowering students to tackle intricate biological questions within today's complex systems.

Our academic richness is greatly amplified by the vast spectrum of faculty members, each bringing unique insights from varied departments. This synergy, combined with GGSB's distinct interdisciplinary ethos, ensures a dynamic blend of foundational and clinical sciences. Beyond merely imparting knowledge, we've crafted an environment that thrums with intellectual stimulation, collegiality, and unwavering support. Our vision is comprehensive: to equip students with the critical thinking skills and foundational knowledge that prepare them for diverse careers, whether in research, industry, or other innovative fields. We aim to empower our students to excel in any endeavor they choose.

While academic excellence remains our cornerstone, GGSB also believes in the principles of Diversity, Equity, and Inclusion (DEI). We understand academia's historical challenges and actively work to foster an environment where every individual, irrespective of their background, feels valued and supported. With a commitment to progress and a vision for the future, GGSB strives to be at the forefront of genetic, genomic, and systems biology education and research.

PROGRAM OF STUDY IN BRIEF

The guidelines in this handbook are official policies of the Committee on Genetics, Genomics & Systems Biology (GGSB). Students and faculty of the Committee are expected to follow these policies. Students with questions not answered by this handbook are encouraged to contact the GGSB [Graduate Education Administrator](#) (Sue Levison at slevison@bsd.uchicago.edu Office: 773/702-2464 or Cell: 773/307-2237) or [the Chair of GGSB](#), (Luis Barreiro – lbarreiro@uchicago.edu or 773-795-1965).

First Year

The first year of graduate study is spent completing coursework, exploring research opportunities and performing laboratory rotations. Throughout their course of study, all students are registered as full-time (300 units) during the Autumn, Winter, Spring, and Summer quarters.

In the Biological Sciences Division (BSD), PhD students are required to meet the following requirements:

1. **Coursework:** Complete 9 credits of course work, typically within their first year.
2. **Faculty Research Seminar Series:** Attend the seminar series (GENE 31900), commonly known as "AllStars", to familiarize themselves with faculty research initiatives.
3. **Lab Rotations:** Before delving into their dissertation research, students must conduct short research projects in at least two different laboratories. These rotations are scheduled as follows:
 - **Winter and Spring Quarters:** A ten-week rotation aligning with the academic quarter.
 - **Summer:** Either one ten-week rotation or two separate five-week rotations, allowing students to fully focus on research.

In addition, all students are expected to attend the monthly GGSB Seminar Series starting from the Autumn of their first year and throughout their tenure in the program (classes permitting).

Second Year

Just prior to the start of the second year, in September, students take the Preliminary Examination as a first step towards candidacy for their PhD.

At the beginning of the second year, students also choose a Research Advisor. Under unusual circumstances (and with approval of the Curriculum/Student Affairs Committee), students are allowed to carry out a laboratory rotation during the Autumn quarter before choosing an advisor.

Once a Research Advisor is chosen, a Student Doctoral Committee is formed. The Student Affairs Committee (SAC), in consultation with the student and the student's advisor, appoints its members. The Student Doctoral Committee is comprised of the Research Advisor and three-four other faculty members, of which one will be appointed the Thesis Committee Chair. **At least three of the four committee members must have a GGSB faculty appointment.**

While most or all coursework will be completed in the first year, one course elective may be taken during the second year. If a student is interested in deferring more than one course beyond the first year, that student must petition the SAC to receive approval.

Most of the second year is spent developing a research project and preparing the student to submit a written proposal for dissertation research. This proposal must be defended in front of the Student Doctoral Committee before the end of Spring quarter (which is known as the Qualifying Examination). Passing the Qualifying Examination permits the student to enter into candidacy for the PhD

Starting in their second year, students are expected to attend and present at the Genetics Journal Club, where faculty and students review current research papers.

Advanced Years

After passing the Qualifying Examination, students work full-time on thesis research while continuing to attend seminars, journal clubs, work-in-progress presentations, etc. Students are welcome to audit courses in which they have an interest with the approval of their PI.

Finally, each graduating student writes a dissertation describing his/her research, presents their work in a public seminar, and defends it before his/her Doctoral Committee members.

Evaluation

GGSB expects each student throughout their term as a graduate student, to have numerous informal conversations with the Chair of GGSB, professors in their courses, their Research Advisor and (in later years) members of their Doctoral Committee. This allows students to obtain constructive advice and frequent appraisals of their progress.

Evaluation of each student's progress will take place each academic year. In the first and second years, the evaluation is based on the student's performance in courses, laboratory rotations and the Preliminary Examination. In later years, the Research Advisor and Doctoral Committee report to the SAC on the student's dissertation research progress after the yearly meetings. If the SAC is apprised of deficiencies in performance, the student will receive a letter describing those deficiencies along with suggestions as to how these deficiencies might be remedied.

CONTRIBUTIONS TO THE GGSB COMMUNITY

1. Participation of GGSB students in program functions

It's anticipated that GGSB graduate students will immerse themselves in numerous GGSB community initiatives. Their involvement can span multiple areas, such as contributing to PhD recruitment and orientation week, guiding incoming students through peer-mentoring, and aiding in the coordination of events like the Molecular Biosciences cluster retreat. Moreover, they're encouraged to step up as student ambassadors, aid in enhancing the program's digital outreach, and become a part of the Human Genetics and GGSB Diversity, Equity, and Inclusion committee, and offer their insights to various temporary recruitment committees. This multi-faceted participation aims to provide our students with invaluable experiences and proficiencies for their scholarly and professional endeavors.

The GGSB graduate program ensures representation through at least three student representatives, supplemented by a dedicated social media and communications envoy. These student representatives primarily bridge communication between the current student body, the GGSB chair as well as GGSB faculty. Moreover, they echo the voice of the GGSB student community to external stakeholders. Their responsibilities encompass:

1. Advocating for the concerns and interests of GGSB students to faculty and management.
2. Facilitating student involvement in the recruitment and orientation of new arrivals.
3. Collaborating with the Graduate Education Administrator to host periodic social gatherings.

Whenever there's a need, these representatives can relay student-centric issues to the Program chair, or the students affairs committee SAC (see detail below). The representatives will meet with the Program chair every other month.

The social media and communications envoy is entrusted with the upkeep of the GGSB website and its associated social media channels, with a particular focus on student and graduate program initiatives.

The student representatives' roles are voluntary. Each delegate serves a two-year tenure, ensuring continuity and fresh perspectives by having one experienced and one new representative each year. Once a delegate's term concludes in the summer, a successor is chosen. Students keen on this advocacy role should approach the GGSB Program Chair or the Graduate Education Administrator.

GGSB CORE COMMITTEES

Steering Committee

The Steering Committee makes all decisions regarding administrative policies for GGSB, reviews new GGSB faculty appointment applications as well as any other issues that may arise regarding GGSB. The GGSB Student Representatives are invited to present student concerns as they arise.

GGSB Student Affairs Committee

The GGSB Student Affairs Committee (SAC) conducts a quarterly review of each student's course. Members of the SAC meet with first year students after each quarter to discuss any issues concerning the first year curriculum or other topics of concern. This faculty committee is responsible for advising students during their first year of graduate study or until a Research Advisor has been chosen. Each student is assigned a member of the SAC to serve as temporary advisor during this time and to aid in selecting courses and arranging lab rotations.

GGSB Curriculum Committee

The GGSB Curriculum Committee oversees the current curriculum and the development of new curriculum. The members of this committee are also responsible for reviewing and updating the Preliminary Exam questions and the GGSB Handbook on an annual basis or more often as needed. Suggestions and questions regarding the above, should be sent to GGSB Graduate Education Administrator to forward to the Curriculum

Committee.

Graduate Education Administrator

The Graduate Education Administrator, Sue Levison, provides assistance to students on a variety of questions and problems as they arise. The office is located in CLSC 1111. The office phone number is 773/702-2464; Cell phone is 773/307-2237 and e-mail address is slevison@bsd.uchicago.edu.

REQUIREMENTS FOR THE PhD DEGREE

A PhD candidate must fulfill certain formal coursework requirements, pass the Preliminary and Qualifying Examinations and present a satisfactory dissertation describing the results of original research.

The Committee expects a knowledge of and proficiency in genetics. This requirement will normally be met by fulfilling the formal coursework listed below, but detailed degree programs are flexible. Courses taken at other institutions, in other departments, or as part of the Medical School curriculum may substitute for genetics courses with approval of the BSD Dean and SAC.

Students are expected to maintain a grade average of "B" or higher. Students who fail to do so will be placed on academic probation with continuation in the program dependent upon improved performance. Should a student receive a D or F in any course during any quarter, the student will be immediately placed on academic probation.

If a student fails to pass the Preliminary Examination or the Qualifying Examination, the student will be terminated by the end of the respective quarter, unless otherwise recommended by the members of the SAC.

Formal Coursework: Choice of Two GGSB Tracks: Empirical Track or Computational Track

To obtain a PhD in the Division of Biological Sciences, nine graded courses are required as detailed below.

GGSB has two tracks, one "Empirical Track", and the other "Computational Biology". While the two tracks are united by the common goals of using genetic, genomic and systems biology approach to address important biological questions, the training focus is different. Training in the Empirical Track is more focused on experimental techniques, especially those quantitative in nature. The Computational track curriculum trains students to address fundamental biological questions and to master the three skillsets that are essential to computational genomics research: probabilistic modeling, statistical inference, and computational algorithms & data structures. This curriculum is also unique in its focus on communication skills, both in terms of writing and speaking. This emphasis emerges from a perspective that computational biologists need to clearly explain complex algorithms and results in order to both effectively share their research products and to collaborate with diversely trained colleagues. The curriculum of the two tracks, as a result, will be different, as outlined below.

GGSB Empirical Track Coursework

GGSB EMPIRICAL TRACK: 4 REQUIRED COURSES AND 4 ELECTIVES PLUS 2 ROTATIONS

Suggested "tracks" for students interested in concentrating in the Empirical track have been developed by the Curriculum Committee (Model Systems, Population Genetics, Human Genetics, Developmental Genetics, and Genomics & Systems Biology). A summary of the suggested tracks can be found on the [GGSB website](#). Students are required to consult with their assigned mentor prior to registration each quarter.

A total of four graded electives must be taken, one of which may be a reading course with the approval of the SAC. The electives can be selected according to the student's interests and the availability of courses.

Additional questions about the curriculum should be directed to the Chair of GGSB.

Four [4] Required Courses: MGCB 3140: Genetic Analysis of Model Organisms (Autumn) **AND** HGEN 47300 Genomics and Systems Biology (Spring)

Plus One [1] of the Following Two Courses: MGCB 31200 Molecular Biology I (Winter) **OR** MGCB 31300 Molecular Biology II (Spring)

Plus One [1] of the Following Four Courses: ECEV 44000 Molecular Evolution 1: Fundamentals and Principles (Winter) **OR** ECEV 35600 Principles of Population Genetics I (Winter) **OR** ECEV 35901 Genomic Evolution (Autumn) **OR** HGEN 46900 Human Variation and Disease (Spring)

PLUS FOUR [4] ELECTIVE COURSES CHOSEN FROM THE FOLLOWING LIST

GENETICS GENE 39900 Readings in Genetics (Autumn, Winter, Spring, Summer)

BIOCHEMISTRY AND MOLECULAR BIOLOGY: BCMB 30400 Protein Fundamentals (Autumn); BCMB 30600 Nucleic Acid Structure and Function (Autumn)

DEVELOPMENTAL BIOLOGY: DVBI 33850 Evolution and Development (Winter); DVBI 35600 Vertebrate Development (Winter); DVBI 36400 Developmental Mechanisms (Spring); DVBI 36100 Plant Development/Molecular Genetics (Spring); DVBI 36200 Stem Cells and Regeneration

ECOLOGY AND EVOLUTION: ECEV 35800 Classics of Evolutionary Genetics (Spring)

HUMAN GENETICS: HGEN 47000 Human Genetics I (Autumn); HGEN 47500 Genetic Mechanisms from Variation to Evolution (Autumn); HGEN 47400 Introduction to Probability and Statistics for Geneticists (Autumn); HGEN 47100 Introductory Statistical Genetics (Winter); HGEN Quantitative Genetics for the 21st Century

MOLECULAR GENETICS AND CELL BIOLOGY: MGCB 31600 Cell Biology I (Autumn); MGCB 317000 Cell Biology II (Winter); MGCB 31300 Molecular Biology II (Spring); MGCB 32900 Plant Development and Molecular Genetics (Spring)

NEUROBIOLOGY: NURB 33400 Genetic Approaches in Neurobiology (Spring)

STATISTICS: STAT 22000 Statistic Methods and Applications (Autumn, Winter, Spring); STAT 23400 Statistical Models/Method (Autumn, Winter); STAT 24400 Statistical Theory and Methods I (Autumn, Winter); STAT 24500 Statistical Theory and Methods II (Autumn, Winter); STAT 22600 Analysis of Qualitative Data (Winter); STAT 35500 Statistical Genetics (Spring)

Note: Students may petition the GGSB Student Affairs/Curriculum Committee for approval of an elective course not listed above.

Plus Two [2] Lab Rotations

BSDG 40100 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Winter **OR** Spring) **AND** BSDG 40100 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Summer) **Optional third rotation** BSDG 40102 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Second 5 weeks of Summer quarter)

Empirical Track Course Electives [4 courses]:

- Must take 4 courses (see list of approved electives).
- Students may petition the SAC for approval of courses not listed in this handbook as “approved”.
- At least 3 of the 4 electives are to be taken **before** the Preliminary Exam.

- All 4 electives should be taken before the Qualifying Exam.
- One of the 4 elective courses may be taken pass/fail subject to SAC approval.
- One of the electives may be a graded reading course (see guidelines for reading courses).

GGSB Computational Track Coursework

GGSB COMPUTATIONAL TRACK (3 REQUIRED COURSES AND 3 CORE ELECTIVES PLUS 2 ADDITIONAL ELECTIVES PLUS 2 ROTATIONS)

Three [3] required courses in Computational Biology and Statistics

STAT 24400 Statistical Theory and Methods I (Autumn) AND HGEN 48600 Fundamentals of Computational Biology: Models and Inference (Winter) AND HGEN 48800 Fundamentals of Computational Biology: Algorithms and Applications

PLUS Three [3] Core Elective Courses Chosen from the Following List:

HGEN 47000 Human Genetics I (Autumn) OR MGCB 31400 Genetic Analysis of Model Organisms (Autumn) OR HGEN Genetic Mechanisms from Variation to Evolution (Autumn) OR 47500 HGEN 47100 Introductory Statistical Genetics (Winter) OR ECEV 35600 Principles of Population Genetics I (Winter) OR ECEV 31100 Evolution of Biological Molecules (Winter) OR BCMB 32200 Biophysics of Biomolecules (Spring) OR HGEN 46900 Human Variation and Disease (Spring) OR HGEN Quantitative Genetics for the 21st Century (Spring) OR HGEN 47300 Genomics and Systems Biology (Spring) OR MGCB 32000 Quantitative Analysis of Biological Dynamics (Spring)

PLUS Two [2] Additional Elective Courses Chosen from the Following List:

STAT 34300 Applied Linear Statistical Methods (Autumn) OR STAT 37790 Topics in Statistical Machine Learning (Autumn) OR ECEV 32000 Introduction to Scientific Computing for Biologists (Winter) OR STAT 30900 Mathematical Computation I: Matrix Computation (Autumn) OR BIOS 20186 Fundamentals of Cell and Molecular Biology (Spring) OR BIOS 20187 Fundamentals of Genetics (Winter) OR STAT 24500 Statistical Theory and Methods-2 (Winter) OR STAT 32950 Multivariate Statistical Analysis: Applications and Techniques (Winter) OR ECEV 42900 Theoretical Ecology (Winter) OR STAT 24610 Pattern Recognition (Spring) OR STAT 30210 Bayesian Analysis and Principles of Statistics (Spring) OR STAT 35500 Statistical Genetics (Spring) OR STAT 37710 Machine Learning (Spring)

Note: Students may petition the GGSB SAC for approval of an elective course not listed above.

Plus Two [2] Lab Rotations

BSDG 40100 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Winter OR Spring) AND BSDG 40100 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Summer) **Optional third rotation:** BSDG 40102 Non-Thesis Research: Biological Sciences. Laboratory Rotation Section 10 (Second 5 weeks of Summer quarter)

ADDITIONAL DIVISIONAL REQUIREMENTS FOR BOTH GGSB TRACKS:

GENE 31900 Introduction to Research (Allstars) Lectures on current research by departmental faculty and other invited speakers. A required course for all first-year graduate students. (Autumn)

BSDG 55100 Responsible, rigorous, and reproducible conduct of research: R3CL Required of all BSD first-year doctoral students. The course is designed to stimulate thinking and facilitate discussion about the purpose and necessity of ethical conduct with respect to scientific and academic practices; to create personal awareness of the ethical dilemmas and choices that may be encountered in the course of a career in the sciences; to increase awareness and understanding of the importance of reproducible, rigorous, and transparent research; and to provide practical information regarding policies and procedures related to conduct in the Division of Biological Sciences at the University of Chicago. (Winter)

MGCB 32100 Senior Graduate Ethics A second training in the ethical conduct of research is required for students still registered four years after their initial training. Senior ethics training content is more closely

aligned with research areas and so this training is coordinated by the individual graduate programs. (Spring every other year)

Students should note that several courses have prerequisites for enrollment or require the consent of the instructor. Students entering GGSB with advanced coursework at graduate level should inquire whether this coursework can substitute for required electives.

Students are required to do **two** laboratory rotations **before** selecting an advisor and laboratory to pursue a PhD dissertation.

Introduction to Research (Allstars)

All first-year students are required to attend the GENE 31900 Introduction to Research course (“AllStars”) during the Autumn quarter. This course is designed to provide incoming students with information on the variety of faculty research opportunities available and experience with oral presentations. This course is offered pass/fail. Strict compliance with the attendance policy is required for a passing grade.

Scientific Ethics Courses (Responsible, rigorous, and reproducible conduct of research: R3CR)

All first-year students are required to attend a scientific ethics class organized by the Dean of Students Office. This course is offered during the spring quarter and features sessions on scientific ethics that often involve examining case studies. The course organizer distributes announcements with the title of each talk and the name of the faculty members who will present.

A second training in the ethical conduct of research is required for students still registered four years after their initial training. Senior ethics training content is more closely aligned with research areas and so this training is coordinated by the individual graduate programs.

Prescribed Courses

In some instances, a student’s undergraduate training may not have prepared him/her for a required course. In such cases, the SAC will prescribe an appropriate graduate or undergraduate course if necessary. In some such cases, the prescribed course can be counted as a graduate elective.

Reading Courses

All Reading Courses (GENE 39900) must be approved by the SAC prior to registration. Every reading course must conform to the following requirements: 1) it must meet weekly, 2) the instructor must provide a syllabus for the course and an evaluation of the student’s performance, both of which will become part of the student’s file and 3) the student must submit a written paper.

Laboratory Rotations

Students are required to perform at least two laboratory rotations before selecting an advisor and laboratory to pursue a PhD dissertation.

Students undertake short research projects in at least two different laboratories before beginning their dissertation research. The purpose of the rotation is to expose the student to different research environments, broaden his/her acquaintance with useful laboratory techniques, and introduce him/her to the conceptual framework of experimental design.

The distribution of course offerings make it difficult for students to undertake rotations in the Autumn quarter of the first academic year. Therefore, rotations are typically performed in the Winter or Spring and Summer quarters. During the Autumn, Winter and Spring quarters the rotation lasts ten weeks, coinciding with the academic quarter. One ten week or two five week rotations is done during the Summer Quarter when the student is able to devote full time to research.

Students arrange their own rotations, in consultation with their academic advisor by contacting potential mentors directly. **After the student and mentor have agreed on the time period for the rotation, the student must complete a Divisional Lab Rotation form, signed by the mentor, the students, and the Chair of GGSB to confirm the arrangement.**

Students should have their Autumn quarter rotation arranged by November 7, their Spring quarter rotation arranged by February 13. The Summer rotation(s) should be in place by May 14.

Students who would like to rotate with someone who is not a member of the GGSB faculty should petition the SAC for approval.

At the end of the rotation, the mentor will provide a written evaluation of the student's performance. Rotations will be graded. Non-Thesis Research, and Thesis Research carried out thereafter will be given a pass/fail.

Teaching Assistantships

All graduate students are required to serve as a Teaching Assistant in two courses for academic credit before the PhD degree is awarded. Courses can be undergraduate, graduate, or medical, but must be in the Biological Sciences Division.

The ability to communicate verbally and to teach are important skills for a successful research career. As such, all students are required to serve as teaching assistants (TAs) for two quarters, with responsibilities that may include leading discussion groups, writing problem sets, and running laboratories. Students normally undertake their teaching assistantships during the second and third years. A course designed to train graduate students to be an effective TA may be taken in lieu of one of the two assistantships. The student must receive approval from the SAC prior to accepting a TAship. **The two required TAships must be completed prior to the end of their fourth year of study. Student MAY NOT fulfill a TAship requirement during the last quarter of their graduate studies.**

Diversity, Equity, and Inclusion Assistantships

Diversity is not only an ideal towards which our University strives, but a core institutional value. We are dedicated to creating an environment where people of different backgrounds feel valued and where their ideas and contributions can flourish. Other academic and non-academic institutions are similarly recognizing the fundamental importance of enhancing diversity, equity and inclusion (DEI) across all aspects of their missions. Gaining experience in the DEI arena is thus a valuable form of professional training for PhD students. To recognize the importance of such training for any career path and the benefits of mentorship, either by professionals in the DEI field or by faculty or others who are knowledgeable in DEI, as well as the intrinsic value of DEI efforts, BSD is piloting a new 'Diversity, Equity & Inclusion (DEI) assistantship' program, or DA-ship, in the 2021/2022 academic year.

The [DA-ship](#) program, similar to the TA-ship program, is a mentored and evaluated experience for academic credit. Effort is expected to be equivalent to a TA-ship (~100 hours total), although unlike a TA-ship the 100 hours may in some instances be completed over more than a single quarter. Registration should be for the quarter in which the experience concludes.

Please note that, to meet their degree requirements, all BSD students must complete two terms of professional preparation, at least one of which must involve serving as a Teaching Assistant to a UChicago course. The second requirement may be met with a second [TA-ship](#), a [DA-ship](#), or by participating in the TA training course.

DA-ships may take a variety of forms, with the key attributes being:

- A valuable professional development opportunity in DEI issues and practices as applied to STEM that prepares the student for a spectrum of career opportunities.
- Mentorship by an individual or small team experienced in DEI issues and approaches. Mentors might be staff members in relevant University offices, faculty members with relevant expertise, or external professionals who are approved for this role by the standing DEI-ship Committee.

- Evaluation will be by the mentors and through self-evaluation, paralleling the TA-ship program. The evaluation package will be reviewed by the Dean for graduate affairs or their designate, who will serve as the instructor of record for the DAship program.

Additional information regarding the [DA-ship](https://biosciences.uchicago.edu/content/diversity-equity-and-inclusion-assistantships) can be found at <https://biosciences.uchicago.edu/content/diversity-equity-and-inclusion-assistantships>

Students with extensive teaching experience at the graduate level (e.g. while studying for a Master's degree) are permitted to petition for waiver of the teaching requirement. The petitioner must provide documented evidence of prior teaching experience. For additional information, please contact the Graduate Education Administrator.

Students may not TA for pay before completing the requirement; they may only TA the same course twice **IF** there are significant changes in responsibilities and opportunities to learn new skills in teaching.

Preliminary/Qualifying Examinations

The Biological Sciences Division requires that "a general oral or written qualifying examination, separate from course examinations, must be passed by the student upon the major subject offered and such subordinate subjects as may be required by the Department concerned." In GGSB, this examination has two parts 1) the Preliminary Examination and 2) the Qualifying Examination. The examination procedures have been designed to ensure that preparing for the exams should be an educational experience for the student. Questions about these examinations that are not answered by the information that follows should be directed to the Graduate Program Administrator.

Preliminary Examination (Part I)

The objective of the Preliminary Examination (Part I) is to determine the strength of a student's general knowledge of genetics as well as their ability to synthesize an overview of research problems of active interest, based on the literature. The exam is typically taken in September following the student's first year.

Students must have completed the 4 required courses and at least three of the four elective courses to sit for the Preliminary Exam. Students also must have a "B" average or permission from the SAC to take this exam.

For the Preliminary Exam, students will be given a set of questions and are expected to prepare responses to three of the questions. A starting point for references will be included with the Exam. Two weeks after receiving the questions, the student will be asked to present his/her answers orally for three questions.

The Preliminary Exam lasts for approximately two hours. Students are allowed to use books, reference materials, lecture and seminar notes to answer the questions. Students are also free to discuss the questions among themselves and with faculty. The format of the presentation should be a short lecture (approximately 15 minutes) designed to teach a generally knowledgeable group about the topic. The presentation should concisely review the pertinent background information, state the question being asked, and lay out an experimental plan (if applicable). Potential pitfalls and difficulties should be evaluated. Answers should not be read from a prepared text. However, one 5x8 note card and six PowerPoint slides for each question may be brought to the Exam. There will also be a board to write on. One of the purposes of the Preliminary Exam is to provide practice in oral presentations and discussion. The faculty will question the student further about the general subject of the presentation. There will be three examiners on each Preliminary Examining Committee from the GGSB faculty. The Preliminary Exam committee members are made public two days prior to the Exam.

Based upon the student's performance, the Preliminary Exam Committee **recommends** one of the following options:

- Pass unconditionally.
- Pass conditionally, with written answers to a question(s) required. Answers should be submitted within two weeks. The student will then meet again with the Exam Committee to defend his/her answers.
- Pass conditionally, with further course work required in one or two areas.
- Fail, with the recommendation that the student retake the exam within the quarter.
- Fail, with the recommendation that the student leave the program.

The SAC then meets to consider this **recommendation**, taking into account the student's overall academic performance as well as his/her performance on the Exam. If a student who fails the Exam is allowed to retake it, the Committee for the re-take will be selected by the SAC in consultation with the Chair of the GGSB and will contain at least one member of the first Preliminary Examining Committee

The Qualifying Examination (Part II)

The Qualifying Examination (Part II) evaluates a student's ability to propose and defend a doctoral thesis research plan. Upon successful completion of this Exam, the Qualifying Examining Committee becomes the student's Doctoral Advisory Committee (i.e. Thesis Committee). A student must have the endorsement of his/her Research Advisor in order to sit for the Qualifying Examination. In the event that a Research Advisor declines to endorse a student for the Qualifying Exam, the Steering Committee will review the student's record to determine if that student will be allowed to seek a new Research Advisor or be asked to leave the program.

Once the student chooses a Research Advisor, the student, in consultation with their Research Advisor, formulates a list of four or five prospective Qualifying Exam Committee members (including the student's advisor) and submits the list to the Graduate Program Administrator who will forward it on to the SAC for their review and approval. This review is designed to help ensure that the proposed committee members are qualified and appropriate and, in keeping with the interdisciplinary nature of the program, the expertise of the members is broad-based. It is not uncommon for the SAC to recommend the addition of a committee member to broaden the overall expertise of the committee. Final decisions on committee membership will be made by agreement between the SAC, the Research Advisor, and the student.

In addition to approving the initial Doctoral Advisory Committee, the SAC must also approve replacements when members of a Doctoral Committee resign. In the event that more than one member of a Doctoral Committee resigns, the Steering Committee will meet to consider the circumstances that led to these resignations and decide on an appropriate course of action. Possible courses of action include (but are not limited to) replacement of committee members, formation of a new Doctoral Committee or reconsideration of the student's qualifications for candidacy.

After the Qualifying Exam, the Qualifying Exam Committee members will continue to serve as the Doctoral Advisory Committee throughout the course of the student's doctoral research. This Doctoral Committee will be chaired by a member other than the student's Research Advisor. The function of the Doctoral Committee is to monitor the student's progress and to assist the student in the development of their dissertation research. For this reason, the choice of the members of the Doctoral Committee should be based on their knowledge and expertise in the area of the student's research. In the event the student chooses to work with a member of the faculty who does not have an appointment in the GGSB, the student must petition the Committee for approval. **At least three members of the Doctoral Committee, including the Chair, must have faculty appointments in GGSB.** It is important to note that the Qualifying Exam is not a thesis defense. It does not require preliminary results although, if available, they can be used. The exam tests the student's ability to:

- Choose a topic, that is, formulate an important biological question;
- Propose a coherent set of avenues to answer the question;
- Summarize critically the current literature on that topic; and
- Describe a series of experiments taking into account possible pitfalls and therefore alternative approaches.

The written proposal should be modeled after an NIH postdoctoral grant application which should consist of general and specific aims (no more than one page), background and significance (no more than three pages),

methods of procedure and a description of your experimental approaches (no more than six pages). This is not a place for trivial experimental details. The recommended length of the proposal, including references and figures, is 10 pages.

Prior to submitting the written proposal to his/her Doctoral Committee, the advisor must approve the proposal for distribution. The written proposal should be submitted to the Graduate Program Administrator by the fifth week of the Spring quarter of the second year (see Calendar of Events for this year's deadline). The student should practice presenting the oral exam prior to the final presentation at the Qualifying Exam. One example would be at the student's lab meetings. The oral exam should be completed by the last week of the Spring quarter. It is the student's responsibility to schedule their Qualifying Exam in a timely manner to ensure that the deadline is met. In the event that circumstances indicate a different schedule, or the student's Doctoral Committee is unable to meet prior to this time, the student must secure permission to postpone the Preliminary Examination from the SAC. Once the student has fulfilled all course requirements and passed the Qualifying Examination, the student will be admitted into Candidacy for the degree of PhD

Annual Doctoral Committee Meetings

All students are required to meet at least once a year with their Doctoral Committee and present a brief written report of their research as a basis for discussion. **This report must be submitted to all Doctoral Committee members and to the Graduate Program Administrator at least two weeks prior to the meeting.** An example of a written report can be found in the GGSB office. At least three members of the Doctoral Committee must be present. These meetings help to ensure that students are making adequate progress toward the completion of their dissertation and to provide the student with a broader base of expertise on which to draw for help and advice. They also strengthen the student's acquaintance with faculty other than their Research Advisor, providing a stronger basis for future letters of recommendation. When the Doctoral Committee approves it, the student may prepare their dissertation. Following each meeting, the Chair of the Doctoral Committee will prepare a written summary and send it to the student and the student's advisor for their approval and signature. The completed summary will then be given to the Graduate Program Administrator and subsequently provided to the student.

Penultimate Meeting

The Doctoral Committee should convene six months before a student expects to receive his/her degree to indicate their agreement that the student is nearing completion of their work and to arrange for subsequent approval that the student may begin writing their dissertation. In general, the mentor and other members of the Doctoral Advisory Committee should endeavor to minimize the possibility of an unsuccessful thesis defense via thoughtful and straightforward advice to the candidate. The Penultimate meeting is particularly important in this regard. Permission to write should not be granted if more than one member of the committee lacks confidence that the thesis will be acceptable. The written report from the penultimate meeting should contain a fairly detailed description of any additional work that needs to be completed prior to submission of the thesis. This list should be limited to a small number of minor items. If, in the judgment of the Doctoral Advisory Committee, substantial work is needed prior to the thesis defense, an additional meeting should be scheduled to review that work before permission to write is granted.

Presentation of the Dissertation

Each graduating student writes a dissertation describing his/her research. Following approval by the student's advisor, the thesis must be delivered to the Doctoral Committee for a two-week reading period. At this stage, the thesis should be in near final form and not in a draft state. The student then presents the work in a public seminar and defends it in front of their Doctoral Committee.

The University has strict rules concerning the preparation of the dissertation. Detailed information can be obtained from the Dissertation Office located on the first floor of the Regenstein Library, Room 100B, or from the [Dissertation Office](https://www.lib.uchicago.edu/research/scholar/phd/) webpage <https://www.lib.uchicago.edu/research/scholar/phd/>, which has the most current information about upcoming deadlines, required forms, etc.

The PhD dissertation should contain a description of the research performed. In addition, it must contain:

- An introduction covering the scientific background of the project(s);
- A discussion of the student's own results and their significance in the field; and
- A summary of their work.

These should be separate sections of the thesis and written independently by the student. Published manuscripts may be included as chapters in the thesis, but separate Introduction, Discussion and Summary sections covering the entire thesis are still required. In cases where collaborative experiments are included in the thesis, the student must clearly indicate the specific contributions made by the individuals involved.

The final dissertation, together with a certificate of approval signed by the Committee Chair, must be submitted to the Dissertation Office no later than three weeks before the date of the convocation. The final Exam Committee consists of at least five faculty members, three of whom must be members of the student's Doctoral Committee and at least three of whom are members of the GGSB faculty.

- Each member of the Thesis Defense Committee must vote "yes" or "no" on the defense form immediately following the defense (i.e. before leaving the room). Thesis Defense Committee members are not allowed to abstain from voting.
- If more than one member of the Thesis Defense Committee votes "no" the student will be required to revise the thesis according to instructions provided by the Exam Committee and meet any additional conditions set by the SAC within one week of the defense. The revised thesis must then be defended in a closed session with a committee consisting of at least one member of the original Thesis Defense Committee and at least one new member.
- If, following the defense of the revised thesis, a candidate receives more than a single "no" vote from a committee member, the candidate will be denied the PhD

Master's Degrees – Transitional and Terminal

The Committee on Genetics, Genomics & Systems Biology gives Transitional and Terminal MS degrees.

Transitional Master's Degrees

Upon completing all course requirements with a "B" average **and** successfully passing the Preliminary and Qualifying Examinations GGSB students will receive a Transitional MS degree. However, the Transitional MS Degree will only be issued **once the student has successfully defended his/her thesis** (not after qualifying exams).

Terminal Master's Degrees

For a student who decides not to complete his/her PhD candidacy, or who loses PhD candidacy status, but has completed all course requirements with a "B" average **and** has successfully passed the Preliminary Examination may be eligible for a Terminal Master's degree. The Steering Committee makes final decisions with respect to the granting of Master's degrees.

GGSB Seminars/Journal Clubs/Work in Progress

In addition to formal courses, there are many regularly scheduled research seminars that help keep students updated on new developments in genetics and related disciplines.

All students are **required** to attend the Genetics Seminar Series. Students are also **expected** to attend the GGSB Journal Club and the GGSB Work-in-Progress class schedules permitting.

[GGSB Invited Seminar Series](#) features a research talk by a visitor from outside the University of Chicago. Check the [Events Calendar](#) on the GGSB website for the most current schedule.

[The GGSB Journal Club](#) is a presentation of a current journal article of current relevance to the field of human genetics research. Presentations are made by second year students in consultation with a faculty member.

[The GGSB Work-in-Progress](#) format is a one-hour meeting, which includes two ~20 minute research presentations by GGSB students plus time after each presentation for a discussion. GGSB Students in their third years and beyond are required to present which typically translates to three times during their PhD years. Students who have scheduled their thesis defense are exempt from presenting in the quarter they will defend.

FINANCIAL SUPPORT

GGSB attempts to ensure that all students registered in the PhD program are provided with adequate financial aid. Financial support is guaranteed to all incoming students for their first four years, subject to satisfactory academic performance. Support for subsequent years of study is subject to the student's satisfactory research progress, as determined by the faculty sponsor, the Doctoral Committee and the Division of Biological Sciences.

Sources of Support

Students receive tuition plus a stipend. The various sources of support include, but are not limited to:

- Divisional Funding
- NIH Training Grants
- External Fellowships
- University Fellowship
- Research Assistantships

Payment

All stipend payments are made monthly. Fellowship stipend provided by divisional funding, NIH training grant and external or university fellowships do not include tax withholding. RA positions and students who are a TA for the divisional requirement will see tax withholding.

Taxes

Graduate student stipends are taxable by Illinois and the Federal government. Students on fellowships and NIH training grant support must calculate and pay estimated taxes several times a year.

The following IRS forms provide information on determining what portion of your stipend is taxable and when to pay taxes you owe: [Tax Benefits for Education, PUB 970](#); US Tax Guide for Aliens, PUB 519 and [US Tax Treaties, PUB 901](#). IRS form 520 provides information on determining what portion of your stipend is taxable and how and when to pay taxes you owe. These forms are available from the IRS. Regenstein Library also carries tax forms. For additional information see: <http://www.irs.gov/Individuals/Students>

Supplies and Research Expenses

In general, costs of research supplies and equipment are covered by grants or contracts held by the faculty member in whose laboratory you are working. Limited funds for supplies are available on training grants, and are disbursed on an annual pro-rated basis, directly to the laboratories in which trainees are working.

Travel to Scientific Meetings

Attendance at scientific meetings is an important part of the educational process. Should you wish to apply for support, check with the source of your funding, (your Research Advisor, or training grant or fellowships). When making your request, please supply the following information: purpose of meeting and relevance to the research; title, place and time of the meeting; title and authors of paper being presented; and amount requested for travel, registration fees, food and lodging. GGSB is not able to provide financial support to students for scientific meetings.

REGISTRATION

General Information

Approximately one week before the dates designated for registration, the Graduate Education Administrator will contact students via email informing them of the dates and times to register online. If a student does not register for their courses prior to the deadline, they will be charged a late registration fee of \$100.

Special registration procedures have been established for the first year students in the Autumn quarter. During Orientation week, first year students will meet with the GGSB Program Chair and Student Affairs/Curriculum Committee to finalize their Autumn Courses and map out a program of study for the first year. Also during Orientation Week, the Graduate Education Administrator will meet with first year students to assist with their Autumn registration. If necessary, second year students also will meet with members of the Curriculum Committee to review their progress in the preceding year and to discuss further degree requirements.

Leave of Absence

Students may, if necessary, apply for a Leave of Absence from the PhD program to be approved by the SAC and the Dean and Director of Graduate Affairs. Only students in good academic standing will be granted a Leave of Absence. Student may also apply for a Medical Leave of Absence. For additional information, contact the Graduate Education Administrator.

Should the need arise, student may also apply for a Medical Leave of Absence approved by the SAC and the Dean and Director of Graduate Affairs. Talk to your Graduate Education Administrator for additional information. Additional information for the University of Chicago Policies and the Biological Sciences Division policies governing students is available on the [OGPA website](#)

Pro-Forma Registration

Students in Advanced Residence, whose dissertation research requires residence away from Chicago, may register pro-forma. A fee per quarter is assessed and keeps the student in full-time registration for purposes of reporting to outside agencies such as to defer student loans. Pro-forma status establishes a good faith relationship between the student and the University. The following regulations apply:

- Pro-forma registration is approved for only one academic year at a time and the maximum pro-forma enrollment allowed is eight quarters
- Applications for pro-forma registration must be approved in writing by the Department of Human Genetics Program Chair, whose signature means that the student's work away from Chicago is recognized as essential to the dissertation. Normally, students applying for pro-forma status will have been admitted to candidacy and have had dissertation topics approved.
- An applicant for renewal of pro-forma status must show the GGSB Program Chair that good use has been made of the time already spent "on location" and that additional time is essential to completing the original task. Renewals of pro-forma status must be approved by the [Office of Graduate and Postdoctoral Affairs](#).
- A student on pro-forma status may not be gainfully employed for more than 19 hours a week.
- Pro-forma students may not use the facilities of the University or the time of its faculty, except for progress reports that may be required by the students' program.
- The Registrar will certify that a pro-forma student is duly registered at the University to any agency requiring such certification.
- The fact that a registration is pro-forma will be noted on the student's academic record.
- Pro-forma registrations do not count toward satisfying a student's residence requirements toward a degree.

Visiting Non-Degree Students

Students who have moved to the University with their advisor but who are still registered at their home institution are given the status of Visiting Non-Degree Students. This gives them access to the libraries and to athletic facilities while they are completing their degrees.

MISCELLANEOUS INFORMATION

Student Representatives

GGSB students have student representatives to represent GGSB student concerns as needed at the quarterly Steering/Curriculum Committee meetings. At any time should a student representative have an agenda item for one of these meetings, they should contact the Graduate Education Administrator to add that item to the agenda for the next meeting. Each representative has a two year term, with one representative new each year, and the other tenured by one year. Each summer, once a representative's two year term has expired, a new representative is appointed. Student representatives also participate in Molecular Biosciences Cluster events, such as Orientation, Retreat and Recruitment planning. These representatives are volunteers who are interested in participating and contributing to these events. The Student Representative will ask for volunteers each year. Students interested in becoming a student representative should contact the Graduate Education Administrator.

GGSB and Diversity, Equity & Inclusion

GGSB is dedicated to advancing Diversity, Equity, and Inclusion (DEI). In brief, we reject the historical and ongoing systemic biases that cause unacceptable inequities in academia. We strive to ensure GGSB is a supportive and inclusive environment for everyone, regardless of race/ethnicity, religion, sex/gender, age, sexual orientation, and/or disability. GGSB elects a DEI committee to lead these efforts.

We welcome feedback and suggestions toward improving DEI in GGSB, UChicago, or beyond. We would appreciate your response to our general climate survey [here](#), which includes fields for general comments.

Specific incidents should be reported to [Equal Opportunities Programs](#), e.g., for [Sexual Misconduct](#), [Discrimination](#), or [Accessibility](#). These programs are run by trained professionals who will protect your privacy.

[See the GGSB website for addition information about the GGSB DEI](#)

Molecular Biosciences Retreat

The Molecular Biosciences Annual Retreat provides an opportunity for students, post-docs, and faculty to meet in a pleasant, informal setting to learn about the various research programs of the various research laboratories. The program consists of several sessions of presentations by students and post-docs. Each session is chaired by a faculty member. There is also a poster session. The Retreat is held annually in the Autumn quarter.

ID & Privileges Office

The ID & Network Privileges Office, located in the lobby of [Regenstein Library](#) (1100 E. 57th Street), is a joint venture between the Library and IT services. They offer a variety of services to the University community. Their main services include: [UChicago Cards](#), [Library access and privileges](#) and [Passport photos](#)

[Bursar's Office](#)

The [Bursar's Office](#), located at 6030 S. Ellis Avenue, 2nd floor and is open to the public weekdays from 9:00 a.m. to 4:00 p.m. The University Cashier (In-Person Cash and Check Payments) is located at 5525 S. Ellis (55th and Ellis Parking Structure). Students may contact the follow Bursar's Office number for information:

- Tuition Inquiries & Bursar Restrictions: 773/702-7086
- Other Information: 773/702-8000
- For additional information go to: <http://bursar.uchicago.edu/>

[Student Wellness](#)

([Student Health Services](#) / [Student Counseling Services](#) / [University Student Health Insurance Plan \(USHIP\)](#))

[Student Health Services](#) provides health care to all registered students in the University. It is funded by a mandatory quarterly [Student Services Fee](#). Payment of this fee allows the student access to the University's [Student Health Services](#). Some specialized and emergency care is not covered, nor does the fee include the cost of outside referrals, laboratory tests, and hospitalizations.

[University Student Health Insurance Plan \(USHIP\)](#) In addition to participation in [Student Health Services](#), all students are **REQUIRED** to carry a health insurance plan (either university student health insurance or comparable insurance) to cover the costs of hospitalization, outpatient diagnostic and surgical procedures, laboratory tests and catastrophic illness. Charges for university insurance are assessed for each of three quarters (Autumn, Spring, Winter); there is no charge for coverage for the Summer Quarter. Additional information can be found on the, [University Student Health Insurance Plan \(USHIP\)](#) website

Students with comparable group insurance coverage through a parent, spouse, or their own policy may request that participation in the university program be waived. However, they must cover the cost of alternative health insurance out of their own pocket.

[Student Counseling Services](#)

[UChicago Student Wellness](#) is committed to promoting the mental health and well-being of UChicago undergraduate and graduate students by providing accessible, high-quality, culturally sensitive mental health services. We also provide outreach and consultation to the University community. All of their services are covered by the [Student Services Fee](#), and there is no additional cost for students to access our services. Call 773.702.9800 to make an appointment with a therapist. Additional links and information can be found on the [Student Wellness](#) website.

For location, hours, how to make appointments and additional information please see the [Student Wellness](#) website.

[Student Disability Services](#)

To ensure the intellectual richness of research and education, the University of Chicago seeks to provide an environment conducive to learning, teaching, working, and conducting research that values the diversity of its community. The University strives to be supportive of the academic, personal, and work-related needs of each individual and is committed to facilitating the full participation of students with a disability in the life of the University.

Student Disability Services works to provide resources, support, and accommodations for all students with disabilities and works to remove physical and attitudinal barriers, which may prevent their full participation in the University community.

[Contact Student Disability Services](#) directly for general questions about accommodations for University classes, programs or activities, please contact them at: 773-702-6000, or via email:

- General: disabilities@uchicago.edu

- Exams: proctor@uchicago.edu
- Notetaking: notetake@uchicago.edu
- Alternative Format Text: text.sds@uchicago.edu

Please see below for additional important and helpful University of Chicago links

[GGSB Graduate Program Resources](#)

[CNetID account assistance](#)

[Computing Facilities](#)

[Copying, Printing & Scanning](#)

[Doc Films](#)

[Gerald Ratner Athletics Center](#)

[Office of International Affairs](#)

[Outreach and Volunteer Opportunities](#)

[Recreation on & Near Campus](#)

[Safety and Security](#)

[Transportation & Parking](#)

[TransLoc](#)

[UGo NightRide Shuttles](#)

[University of Chicago Events](#)

[University of Chicago Student Events](#)

[University of Chicago Student Organizations](#)

Chicago at Large

Chicago is a fantastic city for cultural pursuits including museums, music, theatre, and dining out. The Chicago Symphony Orchestra, the Lyric Opera, jazz and blues clubs, The Goodman Theater, and off-loop theatres are all excellent. Both inexpensive ethnic restaurants and expensive special-occasion restaurants abound.

For information on outdoor concerts, cultural and neighborhood festivals, art fairs and other special events in the Chicagoland area visit the following websites:

The Chicago Convention and Tourism Bureau: www.choosechicago.com

Special Events Management: www.chicagoevents.com

The Chicago Park District: <http://www.chicagoparkdistrict.com>

The City of Chicago: <http://www.cityofchicago.org/city/en.html>

Metromix: <http://chicago.metromix.com/>

The Chicago Reader: <http://www.chicagoreader.com>

The Chicago Music Guide: <http://www.chicagomusicguide.com>

Block Club Chicago: <https://blockclubchicago.org/>

The Magnificent Mile: <http://www.themagnificentmile.com/>

The Promontory: <http://promontorychicago.com/>

Ravinia: <http://www.ravinia.org>

The Chicago Symphony Orchestra: <https://cso.org/>

Chicago Architecture Center: <http://www.architecture.org/>

The Museum of Broadcast Communications: <https://www.museum.tv/>

The Museum of Science and Industry: <http://www.msichicago.org>

The Field Museum: <http://www.fieldmuseum.org>

Illinois Holocaust Museum & Education Center: <https://www.ilholocaustmuseum.org/>

The International Museum of Surgical Science: <https://imss.org/>

The Adler Planetarium: <http://www.adlerplanetarium.org>

John G. Shedd Aquarium: <http://www.sheddaquarium.org>

The Art Institute: <http://www.artic.edu>

Kohl's Children Museum: <http://www.kohlchildrensmuseum.org>

The Peggy Notebaert Nature Museum: <http://www.naturemuseum.org/>

Lincoln Park Zoo: <http://www.lpzoo.com>

Brookfield Zoo: <http://www.brookfieldzoo.org>

Navy Pier: <http://www.navy pier.com>

Broadway in Chicago: <http://www.broadwayinchicago.com>

The League of Chicago Theatres: <http://www.chicagoplays.com>

The Goodman Theatre: <http://www.goodmantheatre.org/>

The Looking Glass Theatre: <https://lookingglasstheatre.org/>

Theater Wit: <http://www.theaterwit.org/>

The Second City: <http://www.secondcity.com/>

Steppenwolf Theatre: <http://www.steppenwolf.org>

The Chicago Botanic Gardens: <http://www.chicago-botanic.org>

The Morton Arboretum: <http://www.mortonarb.org>

Chicago Public Library: <https://www.chipublic.org/>

Chicago Sport and Social Club: <http://www.chicagosportandsocialclub.com/>

Chicago Athlete: <http://www.mychicagoathlete.com/>

Fleet Feet Sports: <http://www.fleetfeetchicago.com>

Divvy Bikes – Bike Sharing System: <http://divvybikes.com/>

Forest Preserves of Cook County: <https://www.chipublic.org/>

Illinois State Parks: <https://www.dnr.illinois.gov/recreation/Pages/default.aspx>

Illinois Bike Trails: <http://www.trailink.com/stateactivity/il-bike-trails.aspx>

Starved Rock State Park: <http://www.starvedrockstatepark.org/>

Indiana State Parks: <http://www.in.gov/dnr/parklake/>

Indiana Dunes: <http://www.indianadunes.com/>

Wisconsin State Parks: <http://dnr.wi.gov/topic/parks/>

Wisconsin Bike Trails: <http://dnr.wi.gov/topic/parks/activities/bike.html>