



2024-2025 Data Science Graduate Student Handbook

An electronic version of this document, containing active links to most of the documents and resources mentioned, is housed on the department website. To view the current and historical versions of the Department of Computer Science & Engineering Graduate Student Handbook, please visit the following webpage:

<https://cse.umn.edu/datascience/graduate-handbook>

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PREFACE & DEPARTMENT DIRECTORY

The faculty and staff of the Data Science program and the Department of Computer Science & Engineering wish you all the best in your academic endeavors. We look forward to working with you during your time here. Your key program contacts are:

Department Head
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Data Science Graduate Faculty Directory

An up-to-date faculty roster can be found online through our [faculty directory](#).

INTRODUCTION

This handbook guides data science graduate students and their advisors on departmental policies and procedures. Users should refer to the [Graduate Education Policy \(Policy Library\)](#), University policy as it pertains to their role as a graduate student or advisor, and required graduate school & department forms, which will be referenced throughout this handbook. Detailed information about the graduate faculty, their research interests, and current research facilities are not included in this handbook but can be found on the program website: cse.umn.edu/datascience.

Information in this document is intended for students admitted to the Data Science M.S. and Post-Baccalaureate Certificate programs housed in the Department of Computer Science & Engineering. While the information contained herein may interest individuals applying for admission, it is not intended to present information pertinent to the admissions process. Every effort has been made to present this material accurately. Any error or ambiguity will not affect or change the rules and processes of the Graduate School, University (GSSP), College, or Department. Please email csgradmn@umn.edu if you find any errors or ambiguous information.

Director of Graduate Studies

The Director of Graduate Studies (DGS) oversees all aspects of their designated graduate program for active, enrolled students. The Director of Graduate Studies will meet with students by appointment only. The Graduate Program Coordinators (GPC) will be your first point of contact for most questions. Please note: General office hours hosted by the DGS are only for instructional purposes pertaining directly to the courses they are currently instructing. For urgent requests, you can contact the DGS via email.

Advising

The Graduate Program Coordinator (GPC) is your first point of contact for assistance with course selection, degree milestones, policy questions, department, and University resources, and other general questions you may have. The GPC serves as the academic advisor for the program and is available for 30-minute, one-on-one meetings to discuss long-term planning and complex situations. Appointments with the Graduate Program Coordinator can be scheduled online at csgrad.appointments.umn.edu. To meet with the GPCs for a scheduled appointment, come to the Computer Science & Engineering Student Services Center in Lind Hall room 324 and check in at the front desk.

Masters and Certificate level students are not assigned a faculty advisor at the time of matriculation. The DGS or the Graduate Program Coordinators may be listed as the advisor of record for M.S. graduate students who do not have an assigned faculty advisor; however, this may not be necessary for every student.

A faculty advisor is typically determined after taking courses, attending seminars, and engaging in one on one discussions with a faculty member. In this way, a student will become acquainted with that faculty member and both parties are able to make an educated advisor selection for their academic program. Only

Data Science M.S. students are required to identify a faculty advisor during their time in the program to advise them on their capstone project. Post-Baccalaureate Certificate students will not have a faculty advisor.

Only faculty with [graduate education responsibilities](#) are eligible to serve as an academic advisor for graduate students and must be listed on the Graduate Education Faculty Role List. The advisor-advisee relationship is a mutual relationship and your faculty advisor must agree to this role. If the faculty member of the student's choice agrees, then the student will inform the department using the appropriate form for their respective program. Further details on this process are included in later sections of this handbook.

All forms that require the DGS signature or approval are to be submitted to the Graduate Program Coordinator electronically via email to csggradmn@umn.edu. The Graduate Program Coordinator will be able to sign on behalf of the DGS. Unless otherwise specified, all forms will then be sent to the Graduate Student Services and Progress Office (GSSP) on the student's behalf.



DATA SCIENCE

Requirements for Data Science M.S. and Post Baccalaureate Certificate Programs

1. Requirements for Data Science M.S. Program

a. Credit Requirements

The M.S. in Data Science program provides a strong foundation in the science of Big Data and its analysis by gathering in a single program the knowledge, expertise, and educational assets in data collection and management, data analytics, scalable data-driven pattern discovery, and the fundamental concepts behind these methods.

Students who graduate from this regular 2-year master's program will learn the state-of-the-art methods for treating big data, be exposed to the cutting-edge methods and theory forming the basis for the next generation of big data technology, and will complete a project demonstrating that they can use the fundamental concepts to design innovative methods for new application areas arising from business, government, security, medicine, biology, physical sciences, and the environment.

The Data Science M.S. is a Plan B track program with a capstone project culminating in a final written report and oral presentation at an annual Data Science Poster Fair. The program requires a total of 31 credits consisting of at least 6 credits each from the 3 emphasis areas: statistics, algorithmics, and infrastructure/large-scale computing; 1 credit of research colloquium; 3 credits for the capstone project; and elective coursework to reach the 31 credit total. In addition, one course for the degree must be one, 3-credit 8xxx level course. University of Minnesota policy states that for Plan B students, a minimum of 20 credits must be taken while enrolled as a degree-seeking student in the Data Science graduate program. Those 20 credits cannot be applied to degree requirements in any other graduate program, with the exception of the Computer Science Ph.D.

Students take 2 courses from each of 3 tracks for a total of 18 credits:

Statistics Track (6-8 cr: take 2 courses, at least 1 of which is from Tier I).

Tier I Courses

- STAT 5101 - Theory of Statistics I OR MATH 5651 - Basic Theory of Probability and Statistics
- STAT 5102 - Theory of Statistics II
- STAT 5302 - Applied Regression Analysis
- STAT 5401 - Applied Multivariate Methods
- STAT 5511 - Time Series Analysis
- STAT 8051 - Applied Statistical Methods 1: Computing and Generalized Linear Models
- STAT 8101 - Theory of Statistics I
- STAT 8102 - Theory of Statistics II
- PUBH 7401 - Fundamentals of Biostatistical Inference
- PUBH 7402 - Biostatistics Modeling and Methods
- PUBH 7440 - Introduction to Bayesian Analysis

Tier II Courses

- AST/STAT 5731 - Bayesian Astrostatistics

- PUBH 7405 - Biostatistics Regression
- PUBH 7406 - Advanced Regression and Design
- PUBH 7407 - Analysis of Categorical Data
- PUBH 7430 - Statistical Methods for Correlated Data
- PUBH 7460 - Advanced Statistical Computing
- PUBH 7485 - Methods for Causal Inference
- PUBH 8401 - Linear Models
- PUBH 8432 - Probability Models for Biostatistics
- PUBH 8442 - Bayesian Decision Theory
- STAT 5052 - Statistical and Machine Learning
- STAT 5201 - Sampling Methodology in Finite Populations
- STAT 5303 - Designing Experiments
- STAT 5421 - Analysis of Categorical Data
- STAT 5601 - Nonparametric Methods
- STAT 5701 - Statistical Computing
- STAT 8112 - Mathematical Statistics II
- EE 5531 Probability and Stochastic Processes
- EE 8581 - Detection and Estimation Theory
- Any course from a list of STAT/Biostat 5xxx/8xxx classes (but not STAT 5021) with approval.

Algorithmic Track (6 cr: take two courses, at least one of which is from Tier I)

Tier I Courses

- CSCI 5521 - Introduction to Machine Learning (formerly Pattern Recognition)
- CSCI 5523 - Introduction to Data Mining
- CSCI 5525 - Machine Learning
- EE 8591 - Predictive Learning from Data
- PUBH 7475 - Statistical Learning and Data Mining
- PUBH 8475/STAT 8056 - Statistical Learning and Data Mining

Tier II Courses

- CSCI 5302 - Analysis of Numerical Algorithms
- CSCI 5304 - Computational Aspects of Matrix Theory
- CSCI 5511 - Artificial Intelligence I
- CSCI 5512 - Artificial Intelligence II
- CSCI 5527 - Deep Learning: Models, Computation, and Applications
- CSCI 5609 - Visualization (renumbered from CSCI 5109)
- CSCI 8314 - Sparse Matrix Computations
- CSCI 8581 - Big Data in Astrophysics
- EE 5239 - Introduction to Nonlinear Optimization
- EE 5251 - Optimal Filtering and Estimation
- EE 5389 - Introduction to Predictive Learning
- EE 5391 - Computing With Neural Networks
- EE 5542 - Adaptive Digital Signal Processing
- EE 5551 - Multiscale and Multirate Signal Processing

- EE 5561 - Image Processing and Applications
- EE 5581 - Information Theory and Coding
- EE 5585 - Data Compression
- EE 8231 - Optimization Theory
- IE 5531 - Engineering Optimization I
- IE 8521 - Optimization
- IE 8531 - Discrete Optimization
- IE 8564 - Optimization for Machine Learning
- Any advanced class in Optimization, Game Theory, or topic related to the listed Algorithmics courses (with advisor and DGS approval)

Infrastructure Track (6 cr: take two courses, at least one of which is from Tier I).

Tier I Courses

- CSCI 5105 - Introduction to Distributed Systems
- CSCI 5451 - Introduction to Parallel Computing: Architectures, Algorithms, and Programming
- CSCI 5707 - Principles of Database Systems
- CSCI 5708 - Architecture and Implementation of Database Management Systems
- EE 5351 - Applied Parallel Programming
- EE 8367/CSCI 8205 - Parallel Computer Organization

Tier II Courses

- CSCI 5103 - Operating Systems
- CSCI 5211 - Data Communications and Computer Networks
- CSCI 5231 - Wireless and Sensor Networks
- CSCI 5271 - Introduction to Computer Security
- CSCI 5715 - From GPS and Virtual Globes to Spatial Computing
- CSCI 5801 - Software Engineering I
- CSCI 5802 - Software Engineering II
- CSCI 8102 - Foundations of Distributed Computing
- CSCI 8701 - Overview of Database Research
- CSCI 8715 - Spatial Databases and Applications
- CSCI 8725 - Databases for Bioinformatics
- CSCI 8735 - Advanced Database Systems
- CSCI 8801 - Advanced Software Engineering
- EE 5355 - Algorithmic Techniques for Scalable Many-core Computing
- EE 5371 - Computer Systems Performance Measurement and Evaluation
- EE 5381 - Telecommunications Networks
- EE 5501 - Digital Communication
- SENG 5709 - Event Driven Architecture
- Any advanced class in Large-scale data management or analysis, or topic related to the listed Infrastructure courses (with advisor and DGS approval)

Students must take the remaining credits from the following areas:

Other graduate-level credits to reach a total of at least 31 regular coursework credits. These may include additional courses from one of the tracks listed about, or related courses from departments in the College of Science and Engineering and the School of Statistics (but not STAT 5021).

- The following PUBH courses may also be used:
 - PUBH 7445 - Statistics for Human Genetics and Molecular Biology
 - PUBH 7461 - Exploring and Visualizing Data in R
 - PUBH 8445 - Statistics for Human Genetics and Molecular Biology
 - PUBH 8446 - Advanced Statistical Genetics and Genomics
 - PUBH 8472 - Spatial Biostatistics
 - No PUBH 4xxx, 5xxx, or 6xxx level courses can be used as electives
- Capstone Project (3-6 cr): This project (1 or 2 semesters) must be supervised by a faculty member, with approval by a faculty committee.
- Colloquium (1 cr). This seminar is a mix of outside speakers and capstone project presentations.
- 8xxx level requirement:
 - **If completing a one semester capstone project**
 - Students must take at least one 3 credit 8xxx level course if completing a one semester capstone project. One semester of DSCI 8760 will not count towards this requirement. The 8xxx level course can be from either one of the three track requirements or can be an approved elective.
 - **If completing a two semester capstone project**
 - Students can satisfy the 8xxx level requirement by completing a two semester capstone project. This requires students to register for DSCI 8760 for two semesters.

TOTAL CREDITS: 31 credits

Of the required classes, all credits must be 5xxx level or above.

The Data Science field continues to evolve, which means occasionally, new courses are developed and may be able to count towards an emphasis area or elective. The most up-to-date list of courses that can be used toward Data Science degree requirements can be found on [the curriculum page](#).

Minor

Requirements for a minor are established by each program. If a student desires to declare a minor, those requirements must be met along with the consent of the DGS of the relevant graduate program. The Minor Field is defined as a minimum of 6-semester credits of coursework outside the Data Science Program in a single department of the College of Science and Engineering (e.g., EE, Math, Stat, IEOR, etc.), Management, Cognitive Science, and/or other related fields for a designated minor. The minor is awarded by that department, and their requirements for a minor must be met in order to qualify for a minor in that field. You must consult with the Data Science Graduate Program Coordinator prior to pursuing a graduate minor to ensure it complies with department policies.

GPA

All M.S. students are expected to maintain a GPA of at least 3.25 for all courses listed on their GPAS audit for degree requirements and a GPA of 3.0 for all courses taken while in the program. No course for which the student has received a grade below a C- can count towards the degree. There is no foreign language requirement for this degree.

After every spring semester, a review of students will be conducted, and students who fall below the program's GPA requirement will be notified. Students who are below program GPA requirements may be asked to connect with a Graduate Programs Coordinator to discuss their progress in the program.

All requirements for the master's degree must be completed and the degree awarded within 5 calendar years after initial enrollment in the graduate program. Students who are unable to complete the degree within the time limits described due to extraordinary circumstances may submit a [time extension request](#) to the DGS and the college for an extension of up to 12 months.

b. Data Science Committee

Your M.S. final exam committee must consist of three University of Minnesota-Twin Cities faculty members with formal [graduate education responsibilities](#). Two committee members must be from the Data Science Program, including your advisor, who serves as committee chair, and one committee member from an outside program. All three members cannot be from the same home department. If you have a declared minor, the third committee member must be from that program. It is the student's responsibility to discuss appropriate committee members with their faculty advisor, establish contact with potential committee members and formalize a final committee with Graduate Student Services and Progress (GSSP).

All members of an M.S. committee must have graduate education responsibilities as mentioned above. Once members have agreed to serve, the student must submit their names following the link on the [Degree Completion Steps checklist](#). This form is routed for faculty advisor and DGS approval and then sent to a college representative for final approval. Committee members cannot be appointed until after the GPAS Planner has been approved and entered into the student's record.

c. GPAS Planner

Graduate education policy requires that every graduate student file a Graduate Planning & Audit System (GPAS) Planner for each degree they are pursuing. The GPAS audit reflects:

- Completed coursework
- Projected coursework (courses the student plans to take to complete their degree)
- Transfer coursework as approved by the DGS

For Master's degree candidates, the GPAS planner should be filed prior to the start of the student's final semester. Courses used to obtain the Data Science M.S. can be applied to the Computer Science Ph.D program as well, with the exception of DSCI 8760, the Data Science Capstone course. To submit your GPAS planner, please refer to [instructions on One Stop's website](#).

Once received and approved by the Graduate Program Coordinator, this milestone will be marked as complete within the next 1-2 business days. Once this is complete, students can continue with the next degree completion step of recording their final exam committee members.

Courses that do not directly satisfy Data Science program requirements must count for an approved minor or elective requirement. If these courses are from a department outside of the College of Science and Engineering or School of Statistics, they need to be pre-approved by the DGS..

Only 5xxx and 8xxx level courses will be accepted unless otherwise stated. No courses for which a student has received a grade below a C- may count towards any graduate degree. If CSCI/DSCI 5991/8991 independent study or CSCI/DSCI 5994/8994 directed research credits are used, a separate sheet submitted with the GPAS planner must explain the nature of the research or independent study. Consult with the GPC before registering for any class that falls outside of DSCI coursework or related fields as outlined by this handbook.

All courses taken from a department affiliated with the Data Science program must be taken A-F unless they are only offered S-N.

Any credits taken prior to admission into the Data Science program that qualifies to be transferred must be approved before the GPAS planner is submitted. Any approved transfer work will be listed on the GPAS audit but doesn't count towards the student's GPA. Only credits from accredited schools with comparable graduate degree programs will be approved for use in the Data Science degree program. There is a limit of 11 credits that can be transferred from an outside institution.

Transfer Credits from outside Data Science fields may be approved as supporting program or minor program courses and consultation with the relevant University of Minnesota program may be required. Credits transferred from other institutions must be at the graduate level (post-baccalaureate), have been taken in pursuit of a graduate level degree, and have been taught by faculty authorized to teach graduate courses.

No more than 11 credits of coursework taken as a non-degree seeking student at the University of Minnesota can be transferred.

For the details on the steps students must take to apply to graduate, please visit [the graduate school website](#) for the Degree Completion Steps checklist.

For information on international transfer coursework review, please visit the department's site [on this topic](#).

d. Capstone Project

Students must complete a capstone project supervised by a faculty member. One of the key features of the M.S. in Data Science curriculum is a capstone project that makes the theoretical knowledge gained in the program operational in a realistic setting. During the project, you will go through the entire process of solving a real-world problem, from collecting and processing real-world data to designing the best method to solve the problem, and finally, to implementing a solution. The problems and datasets you'll engage with will come from a real-world environment identical to what you might encounter in industry, academia, or government. Examples of previous capstone projects and the wide variety of topics they cover can be found on the [Poster Fair Archives page](#). Details on Data Science faculty research can be found on the [Faculty research page](#), though this is not an exhaustive list.

Students will choose their project in consultation with their faculty advisor. This project can be part of a larger research program as described on the Research page, a project supervised by another professor at the University, or may be a project associated with the student's ongoing degree program or employment. In any case, the Capstone must be a self-contained project that can be presented orally and in writing to the public. The project is completed by a written report of approximately 20 to 30 pages and participation in an annual Data Science Poster Fair. An oral defense may also be requested by the student's faculty advisor. The project will then be reviewed by the student's final exam committee. In addition to the capstone report, students will register for the 3-credit Capstone course during a semester that is deemed appropriate by the student and their faculty advisor. A grade of "I" will be entered until the final review is completed, at which point, a final grade will be awarded by the DGS or Graduate Program Coordinator.

To sign up for the Plan B Capstone course (DSCI 8760), students must first identify a faculty advisor and agree on a title for the Plan B project. Once this is established, the student will submit the [Declaration of Advisor and Capstone Project Title Form](#). This form can also be found on the Data Science website. Once submitted, the proposed advisor will be contacted to confirm, and the Graduate Program Coordinator will review and approve the project in consultation with the DGS as needed. The student will be issued a permission number for the course via email. The listed advisor then becomes the advisor of record for the student. Please note that the GPAS planner must be submitted at least one semester before the capstone project defense.

The student and advisor should discuss and determine appropriate members for the committee and verify that they have [graduate education responsibilities](#) and are willing to serve. The student should then go [online](#) to appoint them to the committee after the GPAS planner has been approved. This is the committee that will serve as the final exam and Final Project committee. The exam will consist of the final written report. The student may also be asked to present their project to the committee, other students as part of a seminar, or another forum open to the University community. The Final Exam form should be obtained and circulated to the faculty committee members along with the final capstone project report. It is the student's responsibility to ensure this is done. This form is included in the [degree completion steps checklist](#), which can be requested any time after the GPAS planner has been approved.

and the final exam committee has been officially recorded. The committee members will indicate their satisfaction or dissatisfaction with the defense on the final exam form.

e. Poster Presentation Requirement

Every Data Science M.S. student is required to present their work in a public forum prior to graduation. Typically, this is done at the Data Science Poster Fair held every spring semester. There will also be an opportunity for students to complete this requirement in the fall as needed. Most students will present a research poster based on their capstone project work. Presenting at a different event is possible and should be done in close consultation with the Graduate Program Coordinator.

Students should submit their written report to their final exam committee and have a final decision recorded as soon as possible following their poster presentation. These can be completed in the following semester if needed. If a report is not submitted and a final decision is not recorded by the subsequent semester's program-sponsored poster presentation opportunity, the student will be required to present a new poster to reflect updated work on their project. For example, a student who presents at the Spring poster fair should complete their written report and have a final decision recorded by their final exam committee by the next poster presentation event the subsequent Fall semester.

2. Requirements for the Data Science Post-Baccalaureate Certificate Program

a. Credit Requirements

The Post-Baccalaureate Certificate is a program designed for students seeking expertise in methods managing and analyzing Big Data in an abbreviated four-course program. The certificate program is a valuable alternative for those who do not wish to pursue a full-fledged Masters of Science degree in this area. The Data Science Certificate is typically completed in two semesters, but admitted students are free to make progress at their own pace. The certificate is typically completed on campus; however, students have the option to complete many of the required courses through distance learning using our regular courses taken through [UNITE](#). The distance learning courses are taken simultaneously with regular on-campus students and carry the same graduate credits as on-campus courses. Courses completed after admission to the Certificate program that satisfies program requirements can be applied to the Master's of Science in Data Science if accepted into that program.

Academic Requirements

The academic program for the Post-Baccalaureate Certificate consists of four courses (a minimum of 12 credits). Students must complete one Tier I course from each Data Science track. A fourth elective course must be listed as a Tier I or Tier II course in any of the three Data Science tracks or a listed elective. To graduate, students must achieve a 3.0 GPA, including any courses taken to fulfill a missing admissions prerequisite. All courses used for the Data Science Post-Baccalaureate must be taken on the A-F grading scale. Please note that if a student enrolls in UNITE courses during any given semester, they will pay [graduate tuition](#) at the resident rate plus a UNITE fee, regardless of where the student resides.

The Data Science field continues to evolve, which means occasionally, new courses are developed and may be able to count towards an emphasis area or elective. The most up-to-date list of courses that can be used toward Data Science Post-Baccalaureate Certificate requirements can be found on [the curriculum page](#).

Transfer to the M.S. Degree

Students enrolled in the Certificate program are encouraged to apply for the Data Science M.S. and will receive priority consideration, though admission is not guaranteed. Students are expected to complete coursework in the Certificate program at a minimum for one semester before consideration for the M.S. program. Grades are needed in order to determine one's eligibility to transfer. Any course taken while in the Certificate program can be applied to the M.S. program if the student is later admitted to the Data Science M.S. degree.

Degree requirements for the Data Science M.S. program are different, including a higher minimum GPA of 3.25. A student maintaining a minimum GPA of 3.25 in their courses for the Certificate may apply for the M.S. degree through the regular admissions cycle and may use all the same application material originally submitted as part of an application to the Certificate program, plus a letter from a U of MN faculty member. Please be aware that any student who wishes to pursue the M.S. degree after enrolling in the Certificate Program will need to complete a new application for the appropriate admit term.



Financial Support

FINANCIAL SUPPORT

a. Teaching Assistantships

Masters students are not awarded any financial assistance through Teaching Assistantships (TA) or Research Assistantships (RA) at the time of admission, but are welcome to apply for positions once admitted. Post-Baccalaureate Certificate students are not eligible for TA or RA appointments. The number of such appointments fluctuates based on a number of financial considerations and variations in enrollment. Unfortunately, not all students applying for such appointments can be accommodated.

The opening date for TA application submission will be announced through the grad student mailing list. [TA application forms](#) for CSCI courses are available online. Students are welcome to pursue TA opportunities in departments outside of the Department of Computer Science & Engineering, but will need to connect with the respective department with any questions pertaining to their application process.

Appointments in CSCI courses are based on a number of criteria. The primary criteria are

- Language ability and communication skills. TA applicants must be able to speak and write well, explain CS concepts clearly, relate well to students, etc. Students whose native language is not English must pass the University's English requirements prior to receiving a TA appointment. See the [Center for Educational Innovation](#) for more information.
- Teaching experience and quality of past TA performance. Students with outstanding past performance teaching or serving as a TA will be given preference for TA appointments.
- Departmental need. Each year there are a few courses for which it is difficult to find qualified TAs. Applicants with demonstrated experience in these courses will be given preference. The courses that fit this profile change each term, and it is not possible to predict future needs.
- Ph.D. vs. Masters: the department gives preference in TA offers to Ph.D. students. M.S. students are considered if there are no suitably qualified Ph.D. students available. (Students currently in the M.S. program who are in transition to the Ph.D. program are not considered Ph.D. students until the change is officially completed. Moreover, the department usually allows such a change only with strong faculty backing, which usually implies that the involved faculty member(s) will support the student with a research assistantship, rather than having the student rely on a teaching assistantship.)
- Degree Progress: students making substandard progress have lower priority for TA positions.

Most appointments are for 50% on a full-time basis; some may be at 25% (or, on rare occasions, for other percentages such as 12.5%). A 50% appointment provides a 100% tuition benefit, a 25% appointment gives a 50% tuition benefit. For more detailed information, please refer to the [Graduate Assistants Employment page](#). Graduate assistant salaries vary from year to year. For current salary figures, please see the section on salary ranges.

Tuition benefits are based on the duration, percentage of appointment, and your job classification. The benefit you receive is prorated based on this. Generally, you will likely receive a tuition waiver for

double the percentage of your appointment. For example, a 50% appointment for the entire semester would receive a 100% tuition benefit based on the Graduate, and professional tuition structure found here: [Graduate School's tuition band](#). The tuition waiver you receive will be capped at the highest tuition rate you are eligible for. For more detailed information regarding tuition benefits, please refer to the [Graduate Assistant Employment page](#).

A 50% appointment for the entire semester will cover 100% of the tuition for the "Graduate and Professional" rate listed on this [One Stop website](#). Data Science M.S. students with assistantships should be aware that they will be responsible for any tuition costs if they take a credit load which makes their tuition bill higher than the Graduate and Professional rate due to the specific Data Science program per credit hourly rate. Data Science tuition rates are listed on One Stop's website under the College of Science and Engineering.

Fifty percent (or half-time) teaching assistants (TAs) are expected to provide an average of 20 hours per week of service, and twenty-five percent (or quarter-time) TAs 10 hours. The workload is not constant, being lighter some weeks and heavier others, such as the weeks around examinations. A teaching assistant's specific duties are assigned by the instructor. These may include but are not limited to conducting laboratory or recitation sessions, assisting students with laboratory and homework assignments, grading assignments and examinations, and assisting the instructor with the preparation of course materials. In addition, depending on a TA's experience with the course materials or the particular instructor, the TA may be required to attend the lectures and/or do all the assignments.

Teaching assistants must be enrolled for a minimum of six credits each semester, with the exception of doctoral candidates (those who have passed the preliminary oral examination for the Ph.D. degree and have completed all Doctoral thesis credits) who must enroll for a minimum of one credit (CSCI 8444). Please be aware that additional registration requirements may be imposed by entities outside of the Graduate School. International students should check with the International Student & Scholar Services office for any additional requirements related to their visa status.

International students on F-1 and J-1 visas are not allowed to be employed more than 20 hours per week during the academic year. This is a regulation of the Immigration and Naturalization Service (INS), not the University of Minnesota. The INS has unequivocally stated that Assistantships are considered employment and are subject to the 20-hour-per-week rule.

The Department of Computer Science and Engineering participates in TA training and orientation programs that are sponsored by the Center for Educational Innovation of the University of Minnesota. Teaching assistants will be notified if such programs are mandatory. Even when they are optional, students are urged to attend them.

Additional information on teaching assistantships is available in the [Graduate TA handbook](#). This includes information on the offer process and criteria that will be useful to prospective TAs, as well as rules and teaching tips that current TAs should be aware of.

Teaching Assistantship Departmental Policy:

As a matter of department policy, TA appointments aim to fulfill the following:

1. To limit eligibility for graduate TA appointments to six total semesters. This is irrespective of the percentage of appointments. However, summer TA appointments are not included in this count.
2. To make as many 50% appointments as possible for the whole academic year as are consistent with budgetary prudence and the known and confidently anticipated needs of the Department.
3. To make the above appointments before the end of the spring semester of the year preceding the year of appointment.
4. To save at least eight appointments for new students and fill the balance of open positions with continuing students. New student appointments are made during the admission process based on merit.
5. To allow new students not appointed to file applications for spring consideration.
6. To make summer appointments from the pool of students who had an appointment during the preceding academic year.
7. To minimize the number of combined RA-TA appointments and split assignments.
8. To enforce departmental rules regarding eligibility, total percentage of appointment, and degree progress in an objective manner consistent with the needs of the Department.
9. That the total TA/RA support from all sources does not exceed 50% in any semester (including summer sessions) for anyone with a CS TA appointment. Exceptions to this policy can be granted only by the Department Head in advance and only in extraordinary circumstances.
10. Students who have a record of cheating will not be given TA appointments.

b. Research Assistantships

Students are eligible for appointments to the position of research assistant through various research grants and contracts held by faculty members. Such appointments are recommended by the principal investigators and not by the DGS or the Graduate Program Coordinators. Accordingly, students who are interested in being a research assistant (RA) should contact faculty members directly and indicate their interest in working with them on their research. Once a student has demonstrated their ability to contribute to the research, the possibility of an appointment can be discussed. However, most faculty members select research assistants from among their degree advisees and outstanding students in their research seminars. Research assistantships count as part of the total departmental support and are similar to TA appointments in regards to the remission of tuition. The principal investigator determines the duties of each RA.

Research assistants must be enrolled in a minimum of six credits each semester, with the exception of advanced doctoral candidates (those who have passed the preliminary oral examination for the Ph.D. degree and completed all 24 Doctoral thesis credits). There may be additional registration requirements imposed by sources external to the Graduate School, and international students should check with the International Student & Scholar Services Office to ensure their compliance with all visa regulations. Graduate Education policy requires that all RAs/TAs be registered as full-time students in each fall and spring semester, during which they hold appointments of at least 12.5%. It also requires that all RAs/TAs

be registered for an appropriate number of credits before the end of the second week of classes. RAs/TAs who fail to register by this deadline properly will forfeit their assistantship.

The 100% tuition benefit for graduate assistants working an average of 50% time will be the dollar value of the [Graduate School's tuition band](#) or the dollar value of the Graduate School's one-credit tuition cost depending on the student's payroll class. For a 25% appointment, the tuition waiver will be a 50% waiver of the tuition cost, again depending on the student's payroll class. For more detailed information, please refer to the [Graduate Assistant Employment web page](#).

Tuition benefits are based on the duration, percentage of appointment, and your job classification. The benefit you receive is prorated based on this. Generally, you will likely receive a tuition waiver for double the percentage of your appointment. For example, a 50% appointment for the entire semester would receive a 100% tuition benefit based on the Graduate and professional tuition structure. The tuition waiver you receive will be capped at the highest tuition rate you are eligible for. For more detailed information regarding tuition benefits, please refer to the Graduate Assistant Employment page.

A 50% appointment for the entire semester will cover 100% of the tuition for the "Graduate and Professional" rate listed on this [One Stop website](#). Data Science MS students with assistantships should be aware that they will be responsible for any tuition costs if they take a credit load which makes their tuition bill higher than the Graduate and Professional rate due to the specific Data Science program per credit hourly rate. Data Science tuition rates are listed on One Stop's website under the College of Science and Engineering.

It is the student's responsibility to be aware of and in compliance with any policy pertaining to their appointment. It is also the student's responsibility to be aware of and pay all non-refundable fees associated with their academics. If a student cancels a class after the 100% refund deadline, the student is responsible for paying the difference in tuition charges.

It is department policy that the total TA/RA support from all sources does not exceed 50% in any semester for anyone with a departmentally assigned TA appointment. Violating this policy is grounds for terminating your TA appointment. Only the Department Head can grant exceptions to this policy in advance, and only under extraordinary circumstances. Individuals holding a fellowship may be eligible to hold a 25% TA position in addition to the fellowship. Please speak with the graduate program coordinator for more information.

c. Employment

Because of their special skills, data science students may be able to obtain appointments from other departments. If a data science graduate student receives an appointment from another department, they are subject to the salary rates of that department. The Department of Computer Science & Engineering is not directly involved with such appointments and students should handle all employment-related affairs directly with the department or program concerned. Students with appointments in other departments

must inform the Computer Science and Engineering department during the first two weeks of classes, as failure to do so may result in a loss of current and future support from the Computer Science Program.

The College of Science and Engineering (CSE) Career Services lists employment opportunities for graduate students. Details are handled directly by the [CSE Career Services](#) located at Lind Hall 105.



DATA SCIENCE

Registration

REGISTRATION

Graduate student registration dates can be found on the One Stop Student Services website. Students are expected to know their registration queue time during the [registration period](#) for each semester. This can be found on their MyU homepage or through One Stop. Students are required to know and follow University registration deadlines and register each fall and spring semester to maintain active student status.

a. Special Registration Categories for Graduate and Professional Students

To participate as a graduate student at the University and make progress towards your degree, it is required that you maintain active student status. In order to remain active, you must register for courses every fall and spring term. If you do not register for every fall and spring term, your student status is discontinued (considered inactive), and you must [apply for readmission](#) if you wish to return. You can read more about active status in the [leave of absence and reinstatement policy](#).

As a graduate student, there may be a time when you need to register solely to meet your registration requirements and avoid inactive status. Special registration categories are options to help you remain active.

The following special registration categories are restricted to graduate and professional students. Speak with your faculty advisor or the GPC for more information or to find out what will work best for your situation.

GRAD 999: Graduate School Active Status

GRAD 999 is a zero-credit, zero-tuition registration option intended for graduate students who have completed all coursework and (if applicable) thesis credit requirements and who must maintain registration to meet the registration requirement. GRAD 999 enrollment serves only to maintain active student status. Students with GRAD 999 enrollment are not eligible for financial aid, and this status cannot be used for student loan deferment. ***Students may not hold graduate assistantships while enrolled in GRAD 999.***

To register for GRAD 999, you must submit written approval from your advisor in an email to csgradmn@umn.edu. You must also specify which term you are requesting this status and when you plan to graduate. Students can register for GRAD 999 for a maximum of 4 total semesters.

While registered for GRAD 999, you can:

- Meet the active status requirement
- File graduate GPAS Planner; petition; application for degree
- Take master's final exam; doctoral prelim written/oral exam; doctoral final exam
- Submit degree clearance materials (e.g., exam forms, thesis)

- Use U Library resources

If you register for GRAD 999, you are not required to pay the Student Services Fee; however, you may elect to do so if you wish to use or support the services covered by the fee.

International students are strongly encouraged to confer with the International Student & Scholar Services (ISSS) office if they are considering GRAD 999 registration to discuss how to maintain legal status and maintain health benefits.

DSCI 8333: Advanced Master's Status (full-time equivalency for master's students)

DSCI 8333 is a one-credit registration option for eligible master's students who must certify full-time status to be in compliance with the requirements of the University and/or external agencies (e.g., employment as a graduate assistant; loan deferment). Students eligible for 8333 can be employed in one of the low-tuition/low-fringe job classes.

To register for DSCI 8333, contact the Graduate Program Coordinators via email at csgradmn@umn.edu and specify what term you are requesting. [Applications for Advanced Master's Status](#) must be submitted to GSSP by the following deadlines:

- August 15th for the following fall term
- December 15th for the following spring term
- May 15th for the following summer term

While registered for DSCI 8333, you can:

- Meet the active status requirement
- File graduate GPAS Planner; petition; application for degree
- Take master's final exam
- Submit degree clearance materials (e.g., exam forms, thesis)
- Use U Library resources
- Hold graduation assistantships
- Carry health insurance, but only if TA/RA on Graduate Assistant Health Plan
- Retain legal status (international students)
- Defer loans
- Receive financial aid

Graduate Student Services and Progress will review applications to ensure that you hold active status; have a college-approved GPAS planner on file; have completed all coursework included on the GPAS audit – with grades posted to the transcript (exception: Plan B project registrations). Upon approval of the 8333 application, the Office of the Registrar will notify you via email (with a copy to the DGS).

b. CSCI 5996 Curricular Practical Training (CPT)

[Departmental site on CPT](#)

[Curricular Practical Training \(CPT\)](#) is a program that allows international students to gain work experience that is beneficial to their education. Students receive academic credit for their work experience; however, the credit cannot be included in the GPAS audit and does not count towards the credits required for the Data Science graduate programs.

CPT is a separate program from [Optional Practical Training \(OPT\)](#), which can be used after graduation, and does not involve academic credit. Graduate students pursue a CPT opportunity for 3 reasons:

1. CPT can provide good experience in the workplace.
2. The time spent in CPT, if less than 12 months of full-time work, does not count against a student's OPT time limit.
3. Financial support is often unavailable, especially during the summer, and CPT internships can pay normal wages.

Departmental Rules

The use of CPT is subject to 2 departmental rules:

1. The experience needs to be one that advances the student's training in the field in which the student is pursuing a degree.
2. CPT is not to delay academic progress.

Eligibility

A student becomes eligible for CPT after 2 semesters in their graduate program. To be eligible for CPT, the student must be in good academic standing, and the student must not delay progress towards their degree because of the CPT opportunity. Other government or university-mandated eligibility must be followed, and understanding/adherence to rulesets outside of the department is the student's responsibility. Students who have completed one semester of academic-year CPT (Fall or Spring) are ineligible for a second academic-year semester of CPT. They may still undertake Summer CPT up to the government/university limit.

CPT Approval

Students must take the following steps to have a CPT opportunity approved:

- Students should complete the [CPT online workshop](#) through the ISSS office and complete all student sections of the required [CPT paperwork](#).
- Students then submit their completed paperwork and a copy of their offer letter for employment to the Graduate Program Coordinator at csgradmn@umn.edu for review and processing.
- The Graduate Program Coordinator will review and complete both the advisor and instructor portion of the CPT paperwork. A faculty advisor should not sign any CPT-related documents or be involved in any other aspect of the process for CPT.

- If approved, the Graduate Program Coordinator will send a permission number to add CSCI 5996 for a specified semester in addition to any additional instructions to the student via their University of Minnesota email.
- Students must register for CSCI 5996 online using the permission number given to them. This must be done prior to submitting the final paperwork to ISSS.
- After enrolling in CSCI 5996, the student must send the completed CPT paperwork to the ISSS office.

CSCI 5996 is a one-credit course taken pass/fail. CSCI 5996 will not count for credits or requirements in our graduate program. Please be aware of the following:

- Students taking Academic Year CPT may not hold concurrent TA or RA appointments.
- Students with full-time Summer CPT may not hold concurrent TA or RA appointments.



Policies and Procedures

DEPARTMENT POLICIES AND PROCEDURES

The Department of Computer Science & Engineering, The College of Science and Engineering and the University of Minnesota have policies about course registration, academic performance, and scholastic integrity. For most policies, exemptions are only granted in the case of documented extenuating circumstances.

a. Petitioning for Exemptions

You may at some time face an unexpected situation that makes it tough to handle academics and the rest of your life. The DGS and GPC are here to help you meet those challenges that are temporarily impacting your personal well-being and academic achievement. You may petition for a policy exemption that would help you face such an extenuating circumstance.

What's an extenuating circumstance? Typically accepted extenuating circumstances are temporary illness or disabling injury, violence or abuse, depression or anxiety, chemical dependency, and death in the family. Issues that are not typically considered extenuating circumstances include a heavy work schedule, family commitments, not having appropriate prerequisite knowledge for the course, poor performance, and scheduling conflicts.

b. Submitting a Policy Exemption Petition and Review Process

After submission, your petition will be reviewed by a committee. This body generally meets once per week during the academic year and bi-weekly in the summer. Please submit your petition and related documentation via email to csgradmn@umn.edu. Your petition should be clear and concise, as you will not be meeting with the committee in person. Explanations and personal statements should not exceed one page typed. Please be sure to submit all appropriate documentation to support your petition including, but not limited to, medical and/or legal documents that can support your request. Incomplete petitions, including those without a signature or supporting documentation, may result in an automatic denial.

You will be notified of a decision within two weeks of submitting your petition and supporting documentation. There is no guarantee of approval, regardless of circumstances, supporting documentation, or faculty support. If your particular exemption request is not listed, please consult with the Graduate Program Coordinator.

Petitions for the following exemptions to university, department, or college policy must be completed using the [Graduate Student Petition](#) unless otherwise noted.

1. Course Withdrawals

No approval is required to drop a course during the first 10 weeks of regular full-term fall and spring classes (4 weeks for 7-week courses; summer deadlines vary based on how many weeks the course runs); however, a “W” will appear on the transcript for any course dropped after the second week of the term.

After the withdrawal deadline, students must petition to withdraw. Complete petitions must include:

- A personal statement detailing your extenuating circumstances.
- An explanation of why you were unable to withdraw by the 10th week of the semester, as well as a timeline of events that show how your circumstances changed after the withdrawal deadline that prevented you from successfully completing the course.
 - If you are requesting to only withdraw from a few courses (selective withdrawal vs. full withdrawal), you must also demonstrate how your circumstances did not impact the courses you wish to remain enrolled in.

The following documentation is required, in addition to a personal statement:

- Medical Supplement form (if requesting withdrawal due to medical/health circumstances). View the [Medical Supplement form \(PDF\)](#).
- Proof of non-completion emails from instructors sent directly to csgradmn@umn.edu that include your last date of attendance and verification that you did not take the final exam or equivalent for the course.
- Other supporting documentation you think is important which may include obituaries, supplemental letters from healthcare providers, copies of plane tickets, etc.

Other information to consider:

- Examples of extenuating circumstances include, but are not limited to: illness, accident, or family emergency.
- Petitions for late withdrawal with no logical extenuating circumstances will be denied.
- Selective withdrawals are rarely approved.
- If approved, future petitions to withdraw from courses past the withdrawal deadline due to the same circumstances will not be approved.
- If you are receiving financial aid during the semester for which you wish to withdraw, please speak with a One Stop Student Services counselor as there may be negative implications.
- International students will need to be approved for a reduced course load before course withdrawals can be processed. Read more about [how to request a reduced course load](#).

2. Change of Grading Basis

No approval is required to change the grading basis of a course through the first two weeks of the semester (A-F to S/N or S/N to A-F). After the add/drop/change grade basis deadline, students must petition to change their grade basis. Complete petitions must include:

- An explanation of why you would like the grading basis changed.
- An explanation of why you were unable to adjust the grading basis within the first two weeks of the semester.
- Changing a course, regardless of the grading basis, to Audit after the second week of the semester is not allowed.

Petitions for late grade basis change are rarely approved. The University of Minnesota and the Department of Computer Science & Engineering consider most of these requests to be transcript manipulation.

3. Add a Course Past the Deadline; Change Sections After the add Deadline

No approval is required to add a course through the first week of the semester. Complete petitions must include:

- An explanation of why you were unable to add a course or change sections prior to the deadline.
- The specific course you want to take (including section number and five-digit course code).
- The instructor's recommendation and signature. A printed email confirmation is also acceptable.

Other information to consider:

- It is your responsibility to make up any work you missed while you were not enrolled in the course.
- If approved, there will be additional steps you must take to be enrolled in the course. You will be given specific instructions at that time.



DATA SCIENCE

Transfer Courses

TRANSFER COURSES

a. Requesting Transfer Credit for Courses Taken Outside the University of Minnesota

All graduate students in the Department of Computer Science & Engineering graduate program can request to use [transfer coursework](#) taken at a previous institution to satisfy program requirements. Approval is not guaranteed, and any request must be submitted with the proper documentation and meet certain guidelines.

To request the use of transfer coursework for your degree, you must submit a [TRANSFER REQUEST FORM](#). The following documents are required

- Complete a [Graduate Student Petition](#) form detailing the transfer request, equivalent CSCI courses, and what requirement each course will fulfill. If your transfer request is to satisfy elective requirements, you must list the comparable course from the appropriate University of Minnesota department and obtain confirmation from that department that the courses are equivalent. If you are requesting multiple courses, please list them all on a single petition form. If you have an assigned advisor, this form must be signed by that advisor.
- A course syllabus from the term you took the course is strongly preferred. If this is not available, a course description in English can be accepted.
- An unofficial transcript showing grades for each course and a grading scale explanation if the grading scale is different from what is used at The University of Minnesota.
- If the coursework is from an international institution, you must provide an English language version of all documentation and a grade/credit equivalency guide.

To consider a transfer request, coursework must meet the following guidelines

- The course(s) must be on a graduate-level transcript. Courses taken while pursuing a bachelor's degree, or equivalent, will not be considered.
- You must have received the equivalent of a “C” or better in the course.

Limitations on the use of transfer coursework

- For students pursuing the Data Science Master’s Degree, which is Plan B only, University of Minnesota policy requires that a minimum of 20 credits be taken after a student begins that specific graduate degree program. Because of this, the maximum number of credits that can be transferred to satisfy program requirements is 11. The actual number of credits that can be used will be determined during the review process. It is not possible to “split” credits from a single course, you must use all or none from any given individual course transferred from another institution.
- For students pursuing the Data Science Post-Baccalaureate Certificate program, transfer coursework cannot be used to satisfy program requirements.

b. Using Coursework Previously Taken At the University of Minnesota

If you are currently or have previously been enrolled in a graduate program through a different department at the University of Minnesota, you may be able to use some of those course credits to satisfy program requirements in your Data Science degree. Not all previously taken coursework will be eligible for use in the Computer Science Department; you must consult with the Graduate Program Coordinator to determine what can be used.

Limitations on the use of transfer coursework taken at the University of Minnesota

- For students pursuing the Data Science Master's Degree, which is Plan B only, University of Minnesota policy requires that a minimum of 20 credits be taken after a student begins that specific graduate degree program. Because of this, the maximum number of credits that can be transferred to satisfy program requirements is 11. The actual number of credits that can be used will be determined during the review process. It is not possible to "split" credits from a single course, you must use all or none from any given individual course transferred from another institution.
- For students pursuing a certificate program or the Computer Science minor, transfer coursework can not be used to satisfy program requirements.

To request the use of University of Minnesota coursework taken outside of your pursuit of the Data Science M.S. degree, you must submit a request in writing to csgradmn@umn.edu for review.



DATA SCIENCE

General Information

GENERAL DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING INFORMATION

CSGSA

All data science graduate students are automatically members of the Computer Science Graduate Student Association (CSGSA). The CSGSA holds regular meetings throughout the school year. These meetings are a forum for graduate students to voice any concerns or ideas they might have about improving the graduate program and graduate student life. The CSGSA also plans several social events throughout the year. The CSGSA has representation on several departmental committees. For more information, please see their [website](#).

Keys and Space

All data science graduate students have access to the William Munro Graduate Student Lounge (2-212 Keller Hall). This is available to graduate students for their research and study. Access is available via U card. [You must request access](#).

Systems Information

All data science graduate students are entitled to accounts on the departmental machines in the graduate computer labs. New students will be provided with this account prior to their first term. No action will be necessary to receive this account. If for some reason students don't receive this account by the first day they should contact csgradmn@umn.edu and csehelp@umn.edu.

Information about the departmental computing systems and staff is available [online](#). All graduate students will be automatically enrolled in the graduate listserv for departmental announcements.

For information about equipment located in computer labs [please review this link](#). All laboratories in Keller Hall are under the direction of various faculty members. Accounts on equipment in these laboratories must be arranged through the respective professors in charge of each of them.

Useful Locations, Hours and Contact Information

Department of Computer Science & Engineering Office

8:00 - 4:30 M-F*
4-192 Keller Hall
200 Union St SE
Minneapolis, MN 55455
(612) 625-4002

Graduate Admissions

8:00 - 4:30- M-F*
309 Johnston Hall
101 Pleasant St SE
Minneapolis, MN 55455
(612) 625-3014

Graduate Student Services and Progress Office (GSSP)

gssp@umn.edu
8:00 – 4:00 – M-F*
333 Robert H. Bruininks Hall
222 Pleasant Street SE
Minneapolis, MN 55455
(612) 625-3490

Graduate Assistant Employment Office

8:00-4:30 M-F*
200 Donhowe
319 15th Ave SE
Minneapolis, MN 55455
(612) 624-7070

*Hours subject to change

APPENDIX A - Faculty and Research Areas Link

Faculty list with contact information and homepages:

[Data Science Faculty](#)

[Data Science research areas](#)

APPENDIX B - Mental Health and Well-Being Resources

Please reach out to our Graduate Program Coordinator for any assistance you may need with navigating campus resources.

Mental Health Counseling at the U of M

[Boynton Mental Health](#)

- In-person and telehealth appointments available for students.
- Schedule by calling 612-624-1444
- A full list of services they provide can be found on their website, including individual, couples, and group therapy, crisis consultation, and referral support.
- 10 sessions per year limit for individual therapy

[Student Counseling Services](#)

- Private and confidential counseling is offered for a variety of concerns, including personal issues, academic difficulties, and career uncertainty.
- Counseling groups, including for dissertation and thesis support
- Affinity groups in collaboration with U of M campus partners

[Let's Talk](#)

- Informal virtual and in-person drop-in consultations for U of M students throughout the academic year. No appointment is necessary.
- A good fit for those unsure about counseling and wonder what it's like to talk with a counselor, those not seeking ongoing counseling but would like a perspective from a counselor

Mental Health Services in the Twin Cities

- [Hennepin County mental health support](#)
- [Ramsey County mental health support](#)
- [Mental Health Minnesota](#): Peer-to-peer approach to mental health recovery, support and wellness. Calls are answered by our team of professionally trained Certified Peer Specialists, who have first-hand experience living with a mental health condition.
- [Walk-In Counseling Center](#): Free, anonymous counseling with professional counselors who volunteer their time. No appointment is needed.

Well-Being Resources

[Care Program](#)

- Meet with a Care Manager to get support and resources as you navigate the University and pursue academic and personal goals. Care Managers operate in a non-clinical capacity and do not provide formal counseling or therapy to students

BIPOC Mental Health Collective

- Open to UMN students (undergraduate and graduate), staff, and faculty. A space for Black, Indigenous, Latinx, Middle Eastern and North African (MENA), Desi, Asian, and/or People of Color voices, experiences, and stories.

Gender and Sexuality Center for Queer and Trans Life (GSC)

- Resources on health services dedicated to LGBTQ students on and off campus: <https://gsc.umn.edu/health-care/health-services>
- Offers multiple programs that span across four main areas: education, outreach, advocacy and support: <https://gsc.umn.edu/programs>

Student Academic Success Services

- Academic coaching. Individual appointments are available. Coaching appointments are 30 minutes long, offered in-person and on Zoom.
- Graduate student workshop series: <https://sass.umn.edu/self-help>
- More info on coaching: <https://sass.umn.edu/academic-skills-coaching>

Earl E. Bakken Center for Spirituality and Healing

- Wellbeing series, mindfulness programs, free webinars

Nutrition Appointments (Boynton Health Services telehealth)

- Meet with a registered dietitian nutritionist for help setting goals to maintain a healthy diet. Consultations offer information, advice, and support to help manage health concerns through nutrition.

Group fitness classes from RecWell

- yoga, cycling, cardio, strength training, dance, etc.

Disability Resource Center (DRC)

- Help with academic, physical, and technological access and accommodations.

PAWS (Pet Away Worry & Stress)

- Sessions feature registered therapy animal teams—including dogs, bunnies, cats, chickens, and other therapy animals.

- Free and open to the University of Minnesota community.