

GRADUATE STUDENT HANDBOOK

Welcome to CEE



On behalf of the faculty and staff, I wish to welcome you to the Department of Civil and Environmental Engineering. We hope your experience at Carnegie Mellon is both productive and rewarding and, toward these ends, we shall be pleased to help you in any way possible.

This handbook is intended to supplement University information found in the Carnegie Mellon Student Handbook, [The Word](#). Please review both handbooks as soon as you have the opportunity to become familiar

with departmental and university policies. Naturally, if you have any questions, either your academic advisor, our Director of Graduate Programs, David Vey or I shall be happy to answer them.

Again, welcome aboard, and best wishes for a successful year.

A handwritten signature in black ink that reads "David Dzombak". The signature is fluid and cursive, with a long horizontal line extending to the right.

David A. Dzombak
Hamerschlag University Professor
Civil and Environmental Engineering Department Head

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Mission of Civil and Environmental Engineering

The department vision is to continue to achieve national and international recognition through the impact of its research and alumni in three core areas: advanced infrastructure systems; mechanics, materials and computing; environmental engineering, science, and sustainability.

You can learn more about our Mission Statement and Statement of Values [here](#).

The Carnegie Mellon Code

Students at Carnegie Mellon, because they are members of an academic community dedicated to the achievement of excellence, are expected to meet the highest standards of personal, ethical and moral conduct possible.

These standards require personal integrity, a commitment to honesty without compromise, as well as truth without equivocation and a willingness to place the good of the community above the good of the self. Obligations once undertaken must be met, commitments kept.

As members of the Carnegie Mellon community, individuals are expected to uphold the standards of the community in addition to holding others accountable for said standards. It is rare that the life of a student in an academic community can be so private that it will not affect the community as a whole or that the above standards do not apply.

The discovery, advancement and communication of knowledge are not possible without a commitment to these standards. Creativity cannot exist without acknowledgment of the creativity of others. New knowledge cannot be developed without credit for prior knowledge. Without the ability to trust that these principles will be observed, an academic community cannot exist.

The commitment of its faculty, staff and students to these standards contributes to the high respect in which the Carnegie Mellon degree is held. Students must not destroy that respect by their failure to meet these standards. Students who cannot meet them should voluntarily withdraw from the university.

The Carnegie Mellon Code can also be found on-line at: <https://www.cmu.edu/student-affairs/theword/code/index.html>.

The Carnegie Mellon Statement of Assurance

Carnegie Mellon University does not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders.

Inquiries concerning the application of and compliance with this statement should be directed to the vice president for campus affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056.

Obtain general information about Carnegie Mellon University by calling 412-268-2000.

The Statement of Assurance can also be found on-line at: <https://www.cmu.edu/policies/administrative-and-governance/statement-of-assurance.html>.

University Policies & Expectations

As a member of our community, it is your responsibility to understand university policies and guidelines. In addition to the Civil and Environmental Engineering Graduate Student Handbook, you should familiarize yourself with the following resources to understand community expectations:

- Carnegie Mellon Student Handbook (The Word): <http://www.cmu.edu/student-affairs/theword/>
- University Policies: <https://www.cmu.edu/policies/index.html>
- College of Engineering Policies: <https://engineering.cmu.edu/education/academic-policies/graduate-policies/degrees.html>
- Graduate Education Website: <http://www.cmu.edu/graduate/policies/index.html>
- Academic Integrity Website: <http://www.cmu.edu/academic-integrity>

College of Engineering Academic Regulations

A complete description of existing academic policies and regulations can be found at the [College of Engineering Graduate Policies](#) webpage and [The Word](#). Please note that when the policies of the department, college and university differ, the most restrictive policy applies.

Selected Policy Sites Applicable to Graduate Students

The following is a selection of policies applicable to graduate students. This list is by no means complete and it is recommended that students review the complete list of policies available at:

<http://www.cmu.edu/graduate/policies/index.html>.

- [Policy on Academic Integrity](#)
- [Alcohol & Drugs](#)
- [Summary of Graduate Student Appeal and Grievance Procedures](#)
- [Tax Status of Graduate Student Awards](#)
- [Policy on Certification of Instructors' English Fluency](#)
- [Copyright \(Fair Use\) Policy](#)
- [Doctoral Student Status Policy](#)

- [Policy on Equal Employment Opportunities/Affirmative Action](#)
- [Grading Policies](#)
- [Intellectual Property Policy](#)
- [Policy on Pets and Other Animals on Campus](#)
- [Privacy Rights of Students](#)
- [Campus Security Report](#)
- [Policy Against Sexual Harassment](#)
- [Student Health Insurance Policy](#)

Orientation

The department offers an Orientation program prior to the beginning of classes for new students enrolling for the Fall semester. Current students, as well as new faculty, staff and visitors are also encouraged to attend the orientation, which provides information about academic policy, department expectations, computing in the department, as well as general and administrative information.

A spring mini-orientation is held prior to the start of the Spring semester.

Maps and Area Information

- Campus maps: <http://www.cmu.edu/visit/>
- Information about Pittsburgh and the surrounding areas: <http://www.pittsburgh.net>

Academic Calendar

The Academic Calendar can be found at <https://www.cmu.edu/hub/calendar/index.html> and provides information on all deadlines including registration dates, class start dates, add/drop deadlines, exam dates and more.

Academic Programs

The Civil and Environmental Engineering Department at Carnegie Mellon offers a unique interdisciplinary program that enables students to develop imaginative solutions to real world engineering problems. With access to cutting-edge research and technology; high achieving, energetic and approachable faculty members; and an innovative and flexible curriculum, we consistently rank among the top ten programs by US News and World Report.

Focus Areas

The department offers graduate programs at the MS and PhD levels in three focus areas in which we have established both educational and research strengths:

Advanced Infrastructure Systems (AIS)

The AIS education and research area focuses on the exploration and application of emerging Information and Communications Technologies (ICT) to improve the design, construction and operations of infrastructure systems.

Environmental Engineering Sustainability and Science (EESS)

The EESS education and research area focuses on air quality, water quality, remediation, industrial ecology, sustainable engineering, energy and environment, and environmental nanotechnology. This focus area is designed to provide skills, analysis tools, and technologies to meet contemporary environmental stewardship and sustainability challenges.

Mechanics, Materials and Computing (MMC)

The MMC education and research area focuses on the scientific understanding and practical application of the emergent complex behavior of materials through computer simulation techniques for the analysis of the deformation, flow and failure of natural and engineered materials.

Our graduate programs maintain a commitment to excellence in education and research, and offer additional advantages that serve the needs of our students.

Flexibility

Students are able to develop an individually focused program with their faculty advisors, and are encouraged to pursue studies in line with their professional interests and goals. These tailored programs may be directed toward more fundamental engineering science, or more applied engineering design or development, depending on the career goals of the individual student. We also encourage students from a variety of educational backgrounds to pursue graduate study in our department.

Academic Advisors

All graduate students are assigned a faculty member as their academic advisor. Advisors are assigned during the semester prior to your enrollment, matching your interests with those of your advisor. Faculty advisors are charged with guiding you in the development of your personal curriculum, monitoring your progress through the program, and discussing your professional goals with you. Our aim is for this personal student-advisor relationship and mentoring to help you customize your curriculum to achieve your educational goals.

Typically, academic advisors are also research supervisors for those students with research assistantships. Early in the program, the research advisor guides you along some research initiative and helps with strategic planning for courses and

other educational activities. Later, the advisor helps to focus your research towards a thesis topic. Toward the end of the program, the advisor chairs your thesis committee, and helps to select the other members of the committee.

The advisor also provides you with career advice.

If you feel that you would like to switch advisors or have concerns about your advising experience you should consult with the Director of Graduate Programs, Graduate Academic Coordinator, or Department Head. PhD students are also strongly encouraged to seek advice from the members of their Doctoral Committee.

General Academic Requirements

As a full-time student pursuing an advanced degree (MS or PhD) in Civil and Environmental Engineering, you must register for a minimum of 36 units (including 12-794, Graduate seminar) per semester. Students in the MS program may register for a maximum of 48 units each semester.

Graduate Student Seminar

All full-time, joint degree and ABD students are required to register for and attend Graduate Seminar (12-794) each semester. Part-time students will register for seminar at the discretion of your advisor.

Attendance is required as follows:

- CEE Department Seminars (four per semester) – MANDATORY for all graduate students
- CEE Professional Development Seminars (two per semester) - MANDATORY for all MS students
- Research Group Seminars – Mandatory for all PhD and research MS students. Course MS students are welcome, but not required to attend the research group seminars.

For MS students to receive attendance credit for the Department and Professional Development Graduate Seminar, you must attend a minimum of four of the six CEE Department and Professional Development Seminars each semester. PhD students must attend all four of the Department Seminars each semester.

If you are a PhD or Research MS student, you must attend research group seminars in addition to the Department and Professional Development seminars.

If you are unable to meet the attendance requirements for graduate seminar you will need to complete and submit either the [Full Semester Seminar Waiver Request](#) or the [Single Session Seminar Make-Up Request](#) form for consideration.

Teaching Workshop Seminar Series

In order to meet the department's goal to prepare our TAs for the best teaching experience, CEE provides a mandatory series of seminars crafted specifically for CEE Teaching Assistants. This series, titled Teaching Workshop (12790) is taught by the Eberly Center and is held in five sessions through the Fall semester. Registration and attendance is mandatory for all new Teaching Assistants prior to beginning their TA assignment. These seminars are designed to give our TAs the pedagogical advantage of becoming familiar with relevant educational research and related teaching strategies. Students with this requirement must register for course 12790 and will be contacted with additional instructions and dates of the

workshops prior to the Fall semester.

English Language Fluency

Regardless to whether you will be assigned Teaching Assistant responsibilities, if you are a non-native speaker you are strongly encouraged to attend the Language Support Check-in through the Intercultural Center in order to evaluate your English speaking ability. In as much as all graduate students may participate in some instructional activity, it is the Department's policy that this evaluation is essential and in your best interest.

The Language Support Check-in sessions are scheduled early in the Fall semester through the Intercultural Communication Center.

Make-Up Requirements for Students without a BS in Engineering

Students with a variety of backgrounds undertake graduate work in the Department of Civil and Environmental Engineering. Engineering backgrounds are most common, especially civil, chemical, environmental, and mechanical engineering, however, students with undergraduate degrees in mathematics and science are also admitted to the graduate program. Examples of the non-engineering undergraduate backgrounds of these students include biology, chemistry, environmental science, geology and physics.

An outline of the math and science background expected for all entering students:

1 Semester	General Chemistry
2 Semesters	Calculus
1 Semester	Differential Equations
2 Semesters	Physics
1 Semester	Biology (or other science)
1 Semester	Probability and Statistics; or 1 semester Linear Algebra
1 Semester	Computer Programming, Applications or Tools

If you do not have an engineering undergraduate degree and are pursuing a MS in Civil and Environmental Engineering degree, you will need to take the equivalent of five basic undergraduate engineering courses in addition to the courses required for the graduate degree. You may be able to substitute equivalent or closely related courses at the discretion of your faculty advisor.

Required Makeup Courses for students with a degree outside of engineering:

12-320	Engineering Mechanics (9 Units - First Fall Semester)
12-335	Soil Mechanics (9 Units --- Second Fall Semester)
12-355	Fluid Mechanics (9 Units - First Fall Semester)
12-411	Project Management Construction (9 Units - First or Second Fall Semester)
12-421	Engineering Economics (6 Units - First or Second Fall Semester)

If you have entered the program with a non-engineering undergraduate degree, you can pursue the standard MS or PhD degree in Civil and Environmental Engineering, or a special degree title as outlined below.

The department offers additional degree options that do not have undergraduate makeup requirements:

- MS in Environmental Management and Science
- MS in Advanced Infrastructure Systems
- MS in Computational Mechanics

Descriptions of each of these programs can be found in the “Degree Title Options” section below. Consult with your academic advisor and the CEE Director of Graduate Programs if you are interested in submitting a petition to the Department Head for one of these special non-engineering degree titles. Additional coursework may be necessary to obtain the necessary background for these degrees. All requests for a special degree title must be processed and approved before the 10th day of classes in your last semester prior to graduation.

[Special Degree Title Request Form](#)

Masters Program Requirements

Masters degrees are completed in 96 units, with each unit generally requiring one hour of work per week. Semester length courses are 12 units each. Mini courses run for half of a semester and are worth 6 units each. You have the option to mix and match semester length courses and mini courses to complete the 96-unit degree requirement.

Students in our Civil and Environmental Engineering Masters program are required to be registered full-time with a minimum of 36 units and a maximum of 48 units in each semester in which they are enrolled. Please refer to the Registration Policies and Procedures Section for maximum unit registration information. Part-time and non-degree enrollment options are available to non-traditional students – please refer to Part-time Masters Student section.

The 96 units counted towards the masters degree course option must satisfy the following requirements:

- A minimum of 78 units (including both course and independent study units) must be at the graduate level (600 level and above) with at least 48 units at the 700 level.
- A minimum of 60 units must be from CEE, though up to 12 units of technical graduate courses from other departments can be counted towards this requirement if consistent with the students program of study and with the approval of the academic advisor and department head prior to taking the course.
- Up to 18 units of applicable upper level undergraduate courses (defined as courses 300 level and above) may be counted towards the 96 unit requirement with the approval of the academic advisor. Courses numbered XX-299 and lower do not qualify as MS degree electives.
- A minimum of two semesters of Graduate Seminar (12-794) are required for the MS degree.
- No more than 12 units of independent study will be counted towards an MS degree.

- Students must maintain a 3.0 GPA to receive their degree.

Masters students are limited to taking one (1) course in the School of Computer Science during their masters degree program, regardless of whether it counts toward the degree requirements. Exceptions to this “one course” rule can be granted by petition (see below) to the department head with the approval of the faculty advisor, if deemed necessary to the student’s masters curriculum. Also, note that if a student elects an “audit” grade in their first CS course, this will still count as their CS course in the “one course” rule.

[Petition for CS Course Waiver Form](#)

Note that a petition for registration in additional CS courses will be considered under these criteria:

- Student will only be granted approval for additional CS courses after successful completion of a first CS course in a prior semester.
- Student must receive a letter grade of “B” or greater in previously completed CS course.
- Petition will not be considered if student elected a “pass/fail” grade option in previously completed CS course.
- Petition will not be considered if student elected an “audit” grade option in previously completed CS course.
- Students with a prior academic integrity violation in a CS course will not be granted approval for additional CS courses.

Students who are specifically enrolled in the MS in CEE and Integrated Study in Computer Science are exempt from the guidelines of the CS “one course” rule and accompanying petition.

In addition to working with your advisor to tailor your course of study, you will be responsible for monitoring your academic progress through Student Information Online (SIO) to ensure that you are satisfying program requirements.

Master Concentrations

Our MS concentrations offer course suggestions and highlight complementary crosscutting courses, but you will work with your academic advisor and other faculty members to identify appropriate coursework to fit your interests.

You can find more information about our MS Concentrations [here](#).

Master Program Length

Masters students normally complete the degree in three semesters. Students who are qualified and interested may elect to take a heavier course load and complete the degree in two semesters. Students who are able to satisfy the MS degree requirements in two semesters (nine months) will be deemed as graduated and will be unable to continue to the third semester.

Master of Science Degree Title Options

The standard title of the MS degree awarded to candidates in Civil and Environmental Engineering is the Master of

Science in Civil and Environmental Engineering. In recognition of the varied interests of the students entering the department, several degree title options are offered. Students wishing to receive a degree title other than MS in Civil and Environmental Engineering must formally petition (see below) the Department Head for the special title. All requests for a special degree title must be processed and approved before the 10th day of classes in your last semester prior to graduation.

MS in Advanced Infrastructure Systems

The MS in Advanced Infrastructure Systems is intended for students desiring advanced studies in this area who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

MS in Civil Engineering

The MS in Civil Engineering is appropriate for students intending professional practice, and particularly those planning on obtaining a Professional Engineering license in Civil Engineering. A candidate for this degree must be a graduate of an accredited undergraduate engineering curriculum or equivalent. Students who hold an undergraduate degree outside of engineering will also be considered, but will be required to take [basic undergraduate engineering makeup courses as specified by the department](#).

MS in Computational Mechanics

The MS in Computational Mechanics is intended for students desiring advanced studies in mechanics, materials and computing who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

MS in Environmental Engineering

The MS in Environmental Engineering is intended for students whose curriculum focuses on environmental engineering. A candidate for this degree must be a graduate of an accredited undergraduate engineering curriculum or equivalent. Students who hold an undergraduate degree outside of engineering will also be considered, but will be required to take [basic undergraduate engineering makeup courses as specified by the department](#).

MS in Environmental Management and Science

The MS in Environmental Management and Science is intended for students desiring advanced studies in this area who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

[Special Degree Title Petition Form](#)

All requests for a special degree title must be processed and approved before the 10th day of classes in your last semester prior to graduation.

Part-Time Masters Student

If you are enrolled as a part-time MS student, you are required to enroll for a minimum of 12 units each semester. Part-time students are encouraged to complete the degree program as quickly as possible.

In compliance with U.S. Department of Homeland Security immigration regulations, International Students are not permitted to register as part time students. International Students must be registered full time, with a minimum of 36 units in each of the fall, spring, and summer semesters.

Integrated BS/MS Program

Carnegie Mellon CEE undergraduate students have the opportunity to plan a course of study that leads to both a BS in Civil Engineering and a MS in Civil and Environmental Engineering. With the approval of your advisor, you may take courses while an undergraduate that will count toward your MS degree. These courses are beyond the 379 units required for the BS in Civil Engineering degree. This course of study will ordinarily require ten semesters of study, although advanced placement or other study may reduce this time.

If you are interested in pursuing this option, you must submit an **IMB Program Declaration form**, found at: [IMB Program](#) to [Melissa Ritchie](#), the CEE Graduate Academic Coordinator no later than the beginning of your senior year. As an IMB student, you will be registered with graduate status in your 9th and 10th semesters of study; after all of your BS degree requirements have been satisfied. You are expected to meet with your graduate advisor in selecting courses that you plan to take for your graduate studies. You will also be required to attend two semesters of graduate student seminar.

MS in CEE and Integrated Study in Computer Science

CEE offers an Integrated Study MS program with the School of Computer Science (SCS). Applicants are accepted during the normal admissions cycle and are jointly approved by CEE and SCS. The [MS in CEE and Integrated Study in CS](#) is a four-semester program, students will complete a minimum of 144 units - a minimum of 60 units from SCS courses. Students are required to carry 36 units per semester with no more than one SCS course in the first and second semesters. In the third and fourth semesters, students may take no more than two SCS courses in each semester. A minimum 3.0 GPA is required to receive the degree.

Required CS Courses:

- 15-513, Introduction to Computer Systems (12 units) – FIRST SEMESTER
- 17-514, Principles of Software Construction: Objects, Design, and Concurrency (12 units) – SECOND SEMESTER
- The remaining SCS courses, taken during semester three and four will be electives

Students will have an assigned academic advisor in both CEE and SCS to assist in the selection of courses.

Note that summer semesters are not considered part of the required semester structure. In addition, students cannot transfer into this program once you have already enrolled in one of CEE's MS programs.

Special Student Status

If you have already earned your Bachelor of Science you may be admitted as part-time special student if you have no

intention of working toward a graduate degree.

Should you decide to pursue a MS degree later you will be able to count all relevant, graduate level courses taken at Carnegie Mellon with a grade of B or better toward your degree.

Statute of Limitations - Master of Science

All units required for a MS degree, whether earned in residence or transferred from another institution, must be recorded on your transcript within six years of the date on which you are enrolled in the program.

The College of Engineering's Associate Dean for **Graduate and Faculty Affairs** can extend this statutory period if you have special circumstances that do not allow you to complete the degree requirements within the statutory period. The CEE department head and College of Engineering's Associate Dean for **Graduate and Faculty Affairs** must approve this **waiver**. The waiver request must explain the exceptional circumstances that warrant an extension. For cases in which a waiver is granted, the waiver will cover specific courses and will specify a time period for completion of the program.

Masters Students with Unsatisfactory Academic Performance

At the end of each semester, after final grades have been posted, the academic performance of each CEE student is reviewed (grades of dual degree students are reviewed for CEE academic performance only during the semesters in which they are assigned to CEE). Students with a cumulative QPA of less than 3.0, or who have earned a QPA of less than 3.0 in the most recent full semester completed, will be placed on academic probation. Students placed on academic probation will be notified in writing and should meet with their advisor to determine an academic plan of action.

Academic probation includes the following consequences:

- Students on academic probation may have any scholarships, research assistantships and/or financial awards rescinded.
- Students on academic probation cannot be selected to receive awards.

For a student on academic probation, this status will be automatically removed during the next academic review if the semester and cumulative QPA are 3.0 or better.

Students with a cumulative QPA lower than 3.0 at the end of two consecutive semesters may be removed from the CEE program. The student will be notified in writing and should meet with their advisor as soon as possible to discuss their academic situation. The student will then meet with the Department Head. If a decision for removal from the program is made, the student will receive the decision in writing and may appeal the decision by sending a formal letter stating the basis for appeal to the CEE Department Head. The student will have an opportunity to appeal a removal decision by the CEE Head to the College of Engineering Associate Dean for Graduate and Faculty Affairs. If the removal decision is not overturned, the student is not entitled to a refund of tuition or student fees incurred during the semester in which the appeal was being considered.

Doctor of Philosophy Program Requirements

After completion of your MS degree, you are eligible to apply for admission as candidates for the PhD degree. The PhD

program typically takes an average of five years of graduate study following an undergraduate degree, or four years of graduate study following a MS degree.

As a candidate for the degree of Doctor of Philosophy in Civil and Environmental Engineering, you are expected to have demonstrated a breadth of knowledge of and understanding of all aspects of engineering that impact upon your field of specialization, and demonstrate the ability to continue to grow without guidance in that field.

You are expected to have received a proper grounding in the fundamentals of engineering, science, mathematics, and the humanities in your undergraduate and masters studies. The PhD degree, however, is a research-oriented degree, and that implies that the holder of the degree is well versed in the fundamentals of one of the departmentally recognized fields of specialization, and is up-to-date regarding the state-of-the-art of research and knowledge in that field. In addition, one must have the ability to utilize those fundamentals and knowledge in solving ill-defined or new problems, and also demonstrate critical analysis and imagination.

While it is recognized that it is not possible to require each student to have a broad knowledge in every area of civil engineering due to the extreme diversity of the discipline, the department nevertheless works to ensure that you will develop breadth within your chosen areas of specialization, including fundamental subjects and related fields. It is expected that you exhibit an ability to integrate accumulated knowledge, and be able to apply the fundamentals in your chosen field to new situations, including problems that may be open-ended or not well-defined.

The Qualifying Examination

PhD students are required to take a Qualifying Examination consisting of two parts:

- Comprehensive Examination (part one)
- Thesis Proposal Examination (part two)

Students must satisfy the requirements for both parts to pass the Qualifying Examination. Passing the PhD Qualifying Examination admits a student to candidacy for the PhD degree for a period of no longer than six calendar years. If, at the end of this six-year period, the PhD has not been awarded, the student must reapply for admission to the graduate program and will be judged competitively with other students applying at the same time.

PhD candidates will be examined in a public Doctoral Defense of the PhD thesis. The decision regarding the acceptability of a PhD Defense will rest with the candidate's Doctoral Committee. Once the final dissertation is submitted and approved by the Doctoral Committee, the student will be deemed to have satisfied all of the requirements for the PhD degree.

Comprehensive Examination (part one)

This examination is designed to evaluate the student's general knowledge and preparation for undertaking a doctoral program in his or her chosen area of study. The examination is customized for each student.

The Comprehensive Examination consists of two parts:

- A **written examination** appropriate to the academic background and research focus area of the students is developed by the [Comprehensive Exam Committee](#). The committee is responsible for preparing the examination questions and evaluating the results.

- An **oral examination** administered by the [Comprehensive Exam Committee](#). The oral examination generally consists of follow-up questions on the responses provided by the students in the written examination. It may include questions on other topics related to the academic background and research focus area of the student.

Time Frame

The Comprehensive Examination will be scheduled immediately following the end of the fall semester. The written examinations will be open book and will involve four days of work. Each student receives four questions, one from each of four different questioners and will be structured so that the student can do a reasonable job on each question in one working day. The questions typically are related to a course that a student has taken with the faculty member, an equivalent courses taught by the examiner that the student has taken elsewhere, or relative to the student's research area for which the examiner has particular knowledge. The question should be more open-ended than a typical homework problem, with different solution approaches possible, and perhaps with multiple "correct" answers. The idea is to see how the student can formulate and approach a problem that is not posed for them. In answering the questions, the student can use any source of information except for people.

Students are not permitted to submit revisions or supplementary information once the written Comprehensive Examination has passed. Updated documents, addendums and reports will not be evaluated or considered in determining exam outcome. Students may use concise materials, such as a graph, or an aid to clarify or explain a point during the oral exam, however this aid will not be considered as part of the official Comprehensive Examination solution packet.

The oral examination will take place following review of the written parts of the Comprehensive Examination, typically two to four weeks after the written exam. Oral exam questions usually focus on follow-up to the written exam, i.e. on areas of the response that were incorrect, weak or not fully developed. Students are made aware of this format and are encouraged to do further work on the weak areas of their written responses as preparation for the oral exam. Questions on the oral exam can be on topics other than those covered in the written exam, but follow-up on the written exam is the norm.

A student should plan to take the first-scheduled Comprehensive Examination following one semester of full-time residence in the PhD program or after three semesters for direct-entry PhD students.

The oral examination should be scheduled within one month after the written examination. In the interim period, students may not communicate or discuss with questioners or others the content of the written examination or their responses, but they may (and should) review their written responses prior to the oral examination and be prepare themselves to defend their responses.

Prior to Oral Exam

The [Committee Signature Sheet](#) must be prepared by the student prior to the Comprehensive Examination and presented by the student to the Committee Chair at the exam. This sheet will be signed by the Doctoral Committee at the completion of the exam and returned to the Director of Graduate Programs by the Committee Chair.

Grading and Evaluation

The grading and evaluation of the Comprehensive Examination will not be announced until a review has been conducted by the entire faculty of the Department of Civil and Environmental Engineering. Possible examination outcomes are as follows:

- **Unconditional pass:** the student performs satisfactorily in both written and oral portions of the Comprehensive Exam.

- **Conditional pass:** the student must satisfy a set of conditions before s/he can be considered as being deemed to have passed the exam. The committee should be specific on the timeframe for completion of the conditions. A conditional pass should not be awarded when a portion of the exam is to be retaken. A conditional pass does not require another review by the committee.
- **No decision:** the committee has agreed and decided that the student should re-take all or a portion of the exam at a time specified by the committee and agreed upon by the examinee. It is recommended that retakes are scheduled the following May, but no later than the traditional scheduled exam period the following January. New questions must be written for partial or full retakes.
- **Fail:** the student did not perform satisfactorily in the exam. When a student fails, there is no option for that student to retake the exam.

Comprehensive Exam outcomes, whether official or unofficial, will not be communicated to the examinee until after the faculty as a whole have discussed the outcome and agreed on the decision.

There should be NO discussion of the exam amongst examinees until after the final candidate oral exam is held and the outcome communicated.

After Completion

The Comprehensive Exam outcome will be communicated to the student after the CEE Faculty have reviewed the committee recommendation.

The Comprehensive Examination Committee

The Comprehensive Examination Committee consists of four members including

- A minimum of two full-time faculty from the Department of Civil and Environmental Engineering, one of whom must be tenured faculty
- A third faculty member from either the Department of Civil and Environmental Engineering or another department at Carnegie Mellon University
- A fourth member from another department at Carnegie Mellon University, another university, or a governmental or industrial research group as appropriate

The composition of the committee should be mutually agreed upon by the student and his/her advisor. It is important to note that the examination committee members are not necessarily the same as members of the student's doctoral committee.

It is the responsibility of the Chair of the candidate's doctoral committee to:

- Organize the committee
- Make necessary requests to depart from the established requirements
- Gather committee signatures of the examination results on the committee sheet
- Make recommendations on the examination results to department faculty

It is the responsibility of the candidate to:

- Invite the questioners to write your question and to participate in the oral examination
- Coordinate the oral examination date with committee, schedule the room location and notify the Director of Graduate Programs of the scheduled date
- Prepare the [Committee Signature Sheet](#) to present to Chair of committee for approval once the oral examination is completed

Thesis Proposal Examination (part two)

The Thesis Proposal Examination is designed to evaluate a candidate's ability to plan, conduct and communicate independent research in both oral and written form. The quality of the proposal document is an important part of the evaluation.

The thesis proposal document should include the following elements:

- Title page
- Table of Contents
- Abstract
- Introduction
- Background (optional)
- Research Plan
- Schedule
- References
- Appendices (optional)

Each year the department holds a thesis proposal preparation guidance session. Students who have completed the Comprehensive Examination are encouraged to attend.

Time Frame

The Thesis Proposal Examination is typically taken between twelve and twenty-four months following the successful completion of the Comprehensive Examination and more than nine months prior to the final PhD Dissertation Defense. The candidate must submit a written thesis proposal to the Doctoral Committee a minimum of two weeks prior to the oral examination date.

In some circumstances, student advisors may recommend a different timeline for this examination, and students should discuss this possibility with their individual advisor. It is the responsibility of the advisor to communicate any modifications of the examination schedule to the Director of Graduate Programs.

Prior to the Examination

The [Committee Signature Sheet](#) must be prepared by the student prior to the Thesis Proposal Exam and presented by the student to the Committee Chair at the exam. This sheet will be signed by the Doctoral Committee at the completion of the exam and returned to the Director of Graduate Programs by the Committee Chair.

Grading and Evaluation

The grading and evaluation of the Thesis Proposal Examination will not be announced until a review has been conducted by the entire faculty of the Department of Civil and Environmental Engineering. Possible examination outcomes are as follows:

- **Unconditional pass:** the student performed satisfactorily in the Thesis Proposal Examination.
- **Conditional pass:** the student needs to satisfy a set of conditions before s/he can be considered as being deemed to have passed the Thesis Proposal Exam. The committee should be specific on the timeframe for completion of the conditions. A conditional pass requires another review by the committee.
- **Fail:** the student did not perform satisfactorily in the exam. When a student fails, there is no option for that student to retake the exam.

After Completion

The Proposal Exam outcome will be communicated to the student after the CEE faculty has reviewed the committee recommendation and made a final decision.

A student is deemed to have passed the Qualifying Examination upon successful completion of both the Comprehensive and Proposal Examinations. The student is entered into All But Dissertation (ABD) in residence status and must complete all requirements for the PhD degree within a maximum of six years from passage of the Qualifying Examination.

The PhD (Doctoral) Committee

Each PhD candidate in the department will be directed and advised by a Doctoral Committee. The Committee will be responsible for:

- Advising the student on appropriate course work
- Assisting with thesis development
- Evaluating the final thesis product
- One member of the Doctoral Committee serves as Chair and typically this individual will serve as the candidate's principal thesis advisor. The Doctoral Committee must consist of at least four members, including:
 - a minimum of two full-time faculty from the Department of Civil and Environmental Engineering, one of whom must be a tenured faculty member;
 - a third faculty member from either the Department of Civil and Environmental Engineering or another department at Carnegie Mellon University;

- a fourth member from another department at Carnegie Mellon University, another university, or a governmental or industrial research group as appropriate.

The composition of the committee should be mutually agreed upon by the student and his/her advisor. It is important to note that the Comprehensive Examination committee members are not necessarily the same as members of the student's Doctoral Committee.

Research and Dissertation Defense

After passing the Qualifying Examination, students will enter into full-time research and preparation of the dissertation in All But Dissertation status. To complete the requirements of the PhD, the dissertation must be reviewed by the Doctoral Committee and defended in a public oral examination. A [Defense announcement](#) must be posted publicly a minimum of two weeks prior to the scheduled date. The completed defense announcement will be submitted to the Director of Graduate Programs prior to the posting deadline.

All But Dissertation (ABD)

The College of Engineering and Carnegie Mellon University policies recognize two categories of ABD (All but Dissertation) doctoral students:

- *ABD In Residence* – this is the standard status for students upon completion of the qualifying exam
- *ABD In Absentia* – see below

An ABD doctoral candidate may, upon departmental certification thereof, be regarded as being ABD *in absentia* when and, so long as, the following three conditions concur:

1. The candidate has been enrolled as a full-time doctoral candidate at Carnegie Mellon University for at least one academic year. Part-time graduate enrollment may, at the department's discretion, be counted pro rata towards this total.
2. The candidate does not receive a stipend predicated on his or her status as a graduate student or doctoral candidate and paid by or administered by the university (whether teaching or research assistantship, scholarship, or fellowship).
3. The student does not require substantial use of University resources.

The six-year time limit also pertains to students registering *in absentia*. Students in ABD *in absentia* are responsible to register for five units in the semester in which the PhD degree is awarded.

Refer to the complete ABD *in residence* and ABD *in absentia* policies at: [College of Engineering Graduate Policies website](#).

Dissertation Preparation and Submission

The PhD dissertation should be prepared in accordance with the standards and guidelines of the College of Engineering:

<https://engineering.cmu.edu/education/academic-policies/graduate-policies/thesis-dissertation.html>

The final stage of completing the PhD degree requirement is submitting a successfully defended Dissertation prior to the posted deadline. The following guidelines, forms and links must be followed in completing this process.

- [CEE Student Dissertation Submission Process](#) (follow these instructions prior to posted deadline)
 - [Committee Signature Page](#) (complete the form and give to your committee at the defense)
 - [Defense Announcement](#) (submit this completed form to David Vey no less than two weeks prior to the defense)
- [CIT Dissertation Standards, Instructions, Templates and Policies](#)
- [Online Dissertation Submission](#)
- [Survey of Earned Document Completion Certificate](#) (submit online)

PhD Degree Title Options

The standard title of the PhD degree awarded to candidates in Civil and Environmental Engineering is the PhD in Civil and Environmental Engineering. In recognition of the varied interests of the students entering the department, several degree title options are offered. Students wishing to receive a degree title other than PhD in Civil and Environmental Engineering must formally petition the Department Head for the special title. All requests for a special degree title must be processed and approved before the 10th day of classes in your last semester prior to graduation.

PhD in Advanced Infrastructure Systems

The PhD in Advanced Infrastructure Systems is intended for students desiring advanced studies in this area who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

PhD in Civil Engineering

The PhD in Civil Engineering is appropriate for students intending professional practice, and particularly those planning on obtaining a Professional Engineering license, in Civil Engineering. A candidate for this degree must be a graduate of an accredited undergraduate engineering curriculum or equivalent. Students who hold an undergraduate degree outside of engineering will also be considered, but will be required to take [basic undergraduate engineering makeup courses as specified by the department](#).

PhD in Computational Mechanics

The PhD in Computational Mechanics is intended for students desiring advanced studies in mechanics, materials and computing who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

PhD in Environmental Engineering

The PhD in Environmental Engineering is intended for students whose curriculum focuses on environmental engineering. A candidate for this degree must be a graduate of an accredited undergraduate engineering curriculum or equivalent. A candidate for this degree must be a graduate of an accredited undergraduate engineering curriculum or equivalent. Students who hold an undergraduate degree outside of engineering will also be considered, but will be required to take [basic undergraduate engineering makeup courses as specified by the department](#).

PhD in Environmental Management and Science

The PhD in Environmental Management and Science is intended for students desiring advanced studies in this area who do not have an undergraduate engineering degree. The candidate may be a graduate in engineering or other disciplines.

[Petition for Special Degree Title Form](#)

All requests for a special degree title must be processed and approved before the 10th day of classes in your last semester prior to graduation.

PhD in Civil and Environmental Engineering/Engineering and Public Policy

This is a PhD program administered jointly with the Department of Engineering and Public Policy.

Current students interested in the joint PhD CEE and EPP degree program must successfully complete one year of your PhD program in EPP or CEE before you are eligible to apply to the Joint PhD in CEE and EPP. Current students in the PhD program in EPP will need to submit an application for the PhD program in CEE and must begin the Joint PhD program at least one year prior to their expected graduation date. Current students in the PhD program in CEE should contact the Engineering and Public Policy department for additional information.

Students in the CEE/EPP Joint PhD degree program will complete the Comprehensive Exam in both departments, however the EPP Comprehensive Examination will be used to satisfy one of the four CEE Comprehensive Examination questions. One defense committee is formed which must satisfy the requirements of each department, however, only one proposal exam, final defense and dissertation will be required for the joint degree. Students in the CEE/EPP Joint PhD degree program must satisfy the teaching requirements of both departments.

Part-Time PhD Student Residency Requirements

Part-time PhD students are required to complete two semesters in residency (full-time status). The two residency semesters do not have to be continuous, however at least one full-time semester should be completed prior to the semester in which you take your PhD candidacy exam.

The purpose of the residency requirement is to ensure that all PhD graduates have spent time interacting closely with CEE faculty members and graduate students as part of their PhD experience. The time in residence also ensures you an adequate opportunity to prepare for and complete the PhD qualifying examinations at the beginning of graduate study. You should work with your faculty advisor concerning the appropriate format and timing of their qualifying examinations and residency before or upon initiation of your PhD studies. Special situations may warrant modifications of the residency requirement, e.g., pursuit of a PhD degree by a Carnegie Mellon staff member. The Department Head and the CIT Associate Dean for Graduate and Faculty Affairs must approve petitions for modification of the residency requirement.

Part-time PhD students in CEE are required register for a minimum of five (5) units each semester prior to the proposal exam. After completion of the proposal exam, students are moved to All But Dissertation (ABD) *in residence* status and eligible to petition for reduced units. If you are working towards your PhD *in absentia*, you are required by the University to register for five units in the semester your dissertation is completed and the degree is awarded. Additional information regarding the policy on in absentia PhD students is provided at the [CIT Policy website](#).

According to U.S. Department of Homeland Security regulations, all International students are required to maintain a minimum of 36 units per semester to retain their student status. This requirement is reduced to a minimum of 12 units in the final semester of the international student's graduate program with the approval of the Department of Homeland Security.

Direct Entry (MS/PhD) Program

If you are a PhD student in the Direct Entry program you will complete the requirements for the MS degree “along the way” in your PhD studies. Students in the Direct Entry program are required to complete successfully the doctoral qualifying examination.

Intern PhD Program

The Intern PhD program is designed to be interactive with practice in industry, consulting firms or government. The program has these major requirements:

- One year of full-time residence at Carnegie Mellon
- Intern PhD students may register for part-time status for the semesters not in residency, subject to eligibility in regard to visa status. During these semesters, part-time students in CEE must register for a minimum of five units each semester prior to the proposal exam. After completion of the proposal exam, students are moved to ABD (all but dissertation) status and eligible to petition for reduced units, or if applicable, ABD in absentia.
- Satisfactory completion of a two-part examination (comprehensive examination and thesis proposal examination)
- A formal arrangement with an industrial sponsor that includes regular release time for work on campus when not full-time, a co-advisor for the thesis and a commitment to provide support to complete the PhD research work.
- Completion and public defense of a thesis.

Statute of Limitations - Doctor of Philosophy

Once you have completed all formal PhD degree requirements including the completion of and approval of the PhD Qualifying Examination, you shall be regarded as ABD (all but dissertation) in residence. PhD students in ABD may remain in this status for a period no longer than six calendar years.

If you have not completed your PhD degree within six years, you will be automatically dropped as a degree candidate. You will need to reapply to the department for admission as part of that year's applicant pool. You may also be required to petition the College of Engineering's College Council for permission to be readmitted to the program. If you are readmitted you may be required to retake and successfully pass the Qualifying Examination before your PhD is awarded.

If there are extenuating circumstances, such as a forced change of advisor, military service or prolonged illness, you can petition for an extension. Any petition for extension must be made and approved during the last academic semester prior to the end of the six-year statute of limitations, and will only be granted for one calendar year at a time.

PhD Students with Unsatisfactory Academic Performance

Maintaining satisfactory academic standing in the PhD program includes maintaining a minimum QPA of 3.0 and displaying academic progress. Making adequate progress towards the degree includes completing the PhD Comprehensive Exam, the PhD Proposal Exam and the dissertation defense on a timetable agreed to with your advisor, and meeting research milestones established in consultation with the advisor and project sponsor(s). If a student fails to maintain satisfactory academic standing or to make satisfactory progress towards the degree, he/she will be required to leave the PhD program. Except in unusual situations, students will be placed on academic probation prior to being removed from the program. The probationary period provides a final opportunity for the student to address shortcomings with academic performance.

To place a student on probation, the faculty advisor(s) must first discuss the situation with the Department Head. The Department Head will then send a formal letter to the student, with a copy to the student's PhD committee, indicating the probationary status for failing to make adequate academic progress. This letter will outline the issues, and describe explicitly the specific progress that the student must achieve in order to be removed from probation and the associated timeline. If satisfactory progress on the actions specified in the letter is not made, as determined by the faculty advisor(s) and the PhD committee, the student will be required to leave the program.

There may be situations in which the advisor-student relationship is not working; a student must have an advisor to maintain satisfactory academic standing. In these situations, the student is encouraged to seek advice from their PhD committee and/or the Department Head. In cases of unresolvable differences, the student will need to find a new advisor in order to continue in the PhD program.

Registration Policies and Procedures

Graduate Student Course Registration

Course registration is online at the HUB website. You will be asked to login with your Andrew ID and password. If you have problems with registration, PhD students should contact [David Vey](#), the Director of Graduate Programs in Porter Hall 118N. MS students should contact [Melissa Ritchie](#), CEE Graduate Academic Coordinator in Porter Hall 118D. Full-time students are required to register for a minimum of 36 units and a maximum of 48 units. Students are permitted to register for up to 54 units at the beginning of the semester in order to select the courses which best meet their academic objectives, however the total number of units in which a student is registered must not exceed 48 by the end of the 10th day of classes, which is the deadline to add courses. Students who are registered above the 48 unit maximum on the 10th day of classes will be required to drop excess units immediately. Note that International Students will have visa restrictions that prohibit

registering for fewer than 36 units in any semester.

After the first semester, students in good academic standing may request special permission from their academic advisor to carry up to 54 units for the semester (audit units are included). It is the student's responsibility to solicit and submit Advisor's written approval to the Director of Graduate Programs no later than the 10th day of the classes to avoid having units over 48 dropped.

Part-time MS students must register for a minimum of 12 units. Part-time PhD students in CEE are required to be registered for a minimum of five (5) units each semester prior to passage of the proposal exam. After completion of the proposal exam, students are moved to ABD status and may be eligible to petition for reduced units.

[Petition to Increase Units](#)

Summer Registration

If you are a full-time PhD student (36 units or more) during the Spring semester, you will register for Summer semester reading and research units. There is no additional cost for Summer research units and they cannot be applied toward your degree requirements.

MS and PhD students may choose to register for academic courses (as opposed to reading and research units) in the Summer semester to make up a deficiency in degree requirements or for academic research credit. Tuition charges are assessed for regular graduate academic courses and research units.

Please notify David Vey (PhD students) or Melissa Ritchie (MS students) if you are planning to register for academic research during the summer session.

Adding / Dropping Courses

Graduate students may add courses without administrative approval through SIO until the 10th day of classes. It is recommended that you discuss course enrollment changes with your advisor.

After the 10th day of classes, a course may be added up to the published deadline on the academic calendar with Dean's approval. Please see David Vey (PhD students) or Melissa Ritchie (MS students) if you need to add a class after the 10th day of classes.

Graduate students may drop a course online on or before the deadline published in the official university calendar. Note that some non-CEE departments may hold more restrictive drop deadlines which should be noted prior to enrolling in the course. CEE will not provide approval for requests to drop courses outside of these deadlines.

When a course is dropped by the deadline, the course is removed entirely and disappears from your academic record. When a graduate student drops a course between the official university deadline to drop a course and the last day of classes, a "W" (withdrawal) is assigned as a grade, which appears on the student's academic record. This "W" grade does not affect a student's QPA.

Requests for adding or dropping of courses after the published deadlines must be approved by the appropriate instructors and the student's department head or faculty designate. For special actions, such as changes in grade or petitions to College Council, the department head's signature is required.

Students taking undergraduate and Master's level courses must follow the procedures and deadlines for adding, dropping, or withdrawing from courses as identified on the academic calendar. Information can be found at <https://www.cmu.edu/hub/registrar/course-changes/index.html>. There is a separate calendar for doctoral level courses.

Course Audit

Auditing a course is “presence in the classroom without receiving academic credit”. To audit a course, you must register for the course and complete the course audit form which is available through the Hub forms page. Approval of the course instructor for an audit must be obtained by the student; there is a space on the audit form for this purpose. Audit units will count toward your unit maximum, but you will not receive academic credit, a pass/no pass, or a letter grade. Audit courses receive an “O” grade.

Pass/No Pass Grades

Pass/No Pass grades are an alternative to course audit as it indicates a greater level of engagement in the course than the audit. Pass/No Pass grades are permitted at the discretion of the Instructor and you will need to provide written approval from the course instructor to use this grading option. Pass/No Pass grades will not be counted toward completion of CEE degree requirements and are not permitted for courses used to satisfy MS course requirements. Graduate students who are required to take additional undergraduate courses to build up the core foundations of engineering may not elect the pass/fail option for these courses.

Transfer Courses and PCHE

<https://www.cmu.edu/policies/student-and-student-life/transfer-credit-evaluation-and-assignment.html>

Carnegie Mellon University offers students the opportunity to take courses for credit through a cross-registration program (see Pittsburgh Council on Higher Education (PCHE) and Cross-registration below) and through the receipt of transfer credit from other accredited institutions. The Carnegie Mellon University transcript will include information on such courses as follows: Carnegie Mellon courses and courses taken through the university's cross-registration program will have grades recorded on the transcript and be factored into the QPA. All other courses will be recorded on the transcript indicating where the course was taken, but without grade. Such courses will not be taken into account for academic actions, honors or QPA calculations.

Cross-Registration

As a CMU student, you have the ability to take courses for credit at several local universities through a cross-registration program. Please refer to the policy at: [Pittsburgh Council on Higher Education](#). If you take courses through the cross-registration program your grades will be recorded on your CMU transcript and be factored into your QPA.

Cross-registration forms and instructions are available on the Hub's website, and must be completed, approved by your advisor, the Department Head, and the College of Engineering's Associate Dean for Graduate Students and Faculty Affairs.

Transfer of Graduate Credits

You are permitted to transfer up to 24 units of graduate work from another institution toward your graduate degree in Civil and Environmental Engineering provided these credits were not used for other degree requirements. Transferring credits is not automatic, regardless of the grade earned for those courses. Students wishing to transfer credit will need to submit a [Graduate Transfer Credit Request form](#), including the course description, syllabus and final transcript for Department Head approval.

If you are planning to take a course elsewhere with the intention to transfer the credit you will need to submit a [Graduate Transfer Credit Request form](#) for Department Head approval prior to beginning the course. You will need to include a course description with the transfer credit request form. If your request is approved, you will also be required to present a transcript proving completion of the course in order to finalize the transfer credit.

The Department of Civil and Environmental Engineering will not approve the transfer of any course with a grade below 'B'. The course must be suitable for your area of study and approved by both your advisor and the Department Head.

Transfer courses will be recorded on your transcript indicating where the course was taken, but without grade. These courses will not be taken into account for academic actions or QPA calculations.

Double Counting Courses

"Double Counting" refers to instances when a course taken to fulfill one requirement counts simultaneously toward a requirement in another program. Double Counting is not permitted in the graduate program. We will not accept credits or units toward the MS degree in CEE that were used to satisfy another degree requirement.

Independent Study

Advanced Independent Study (12-792) is designed to provide students with an opportunity for intensive study of a subject that is either unavailable or insufficiently covered in regular course work. Independent study is not intended to substitute for existing courses, but to provide the opportunity for a specialized educational and research experience.

Any faculty member in the Department of Civil & Environmental Engineering is eligible to serve as your supervisor for an Independent Study project. You will need to submit a brief prospectus of the project to the faculty supervisor as a basis for reading agreement on the objectives of the study.

The following procedure must be followed for anyone wishing to register for independent study:

Supervisor is CEE Faculty:

- Register for 12792 Independent Study
- Required Administrative Documentation of Project: None
- Academic Credit: Up to 12 CEE graduate level units

Supervisor is Non-CEE Faculty

- Register for Independent Study course number in faculty supervisor's department
- Required Administrative Documentation of Project submitted to CEE: Outline of work being done, including the name of the non-CEE Faculty Supervisor, non-CEE course number and number of units. Your CEE Advisor must approve this request.
- Academic credit: Up to 12 non-CEE graduate level units

Supervisor is Non-CEE Faculty, and student desires 12792 credit for the units

- Register for 12792 Independent Study
- Required Administrative Documentation of Project submitted to CEE: Outline of work being done, including the name of the non-CEE Faculty Supervisor and number of units. Outline must also include an explanation of how this work relates to CEE. This documentation must be approved by the student's CEE Advisor. If the faculty supervisor is outside of the College of Engineering, the CEE Department Head must also approve the request.
- Academic Credit: up to 12 CEE graduate level units

Process for Taking & Returning from Leave of Absence or Withdrawing from the Program

Students intending to take or return from a Leave of Absence or withdrawing from the graduate program are encouraged to meet with their CEE advisor or department head, and the Director of Graduate Programs. Complete information as form can be found at: <https://www.cmu.edu/hub/registrar/leaves-and-withdrawals/>

Process for Withdrawal of a Degree

The university reserves the right to withdraw a degree even though it has been granted should there be discovery that the work upon which it was based or the academic records in support of it had been falsified. In such a case, the degree will be withdrawn promptly upon discovery of the falsification. The complete reference to this university policy is available at: <https://www.cmu.edu/policies/student-and-student-life/withdrawal-of-a-degree.html>.

Grading

The general grading policy is described on the [university grading policy page](#). The following are specific policies for College of Engineering graduate students:

- No A+ may be recorded for a CIT graduate student.
- Project and research work may be given an S (Satisfactory) grade on a semester-by-semester basis, but a letter grade (A, A-, B+, B, B-, C+, C, C-, D+, D, or R) must be given in the final semester for a multi-semester project. The units with an S grade are counted toward degree requirements but are not included in computing the average grade.
- Course work or graduate project units with a grade of C- or lower are not acceptable toward graduate degree requirements.
- The average grade of 96 units applied to the MS degree shall be at least B, and the student may choose any 96 units of the first 120 units attempted to compute the grade average.

Process for Appealing Final Grades

Final grades will be changed only in exceptional circumstances and only with the approval of the instructor and the department, unit or program. Grading is a matter of sound discretion of the instructor and final grades are rarely changed without the consent of the instructor who assigned the grade. The following circumstances are the unusual exceptions that may warrant a grade appeal: (a) the final grade assigned for a course is based on manifest error (e.g. a clear error such as arithmetic error in computing a grade or failure to grade one of the answers on an exam), or (b) the faculty or staff member who assigned the grade did so in violation of a University policy.

Enrollment Verification

Enrollment Services is the only University office that can provide an official letter of enrollment, official transcript and enrollment verification. Enrollment verification can be requested online through The HUB at: <https://www.cmu.edu/hub/registrar/student-records/verifications/>.

Change of Address

CEE students are responsible for notifying CEE, the HUB and OIE (as appropriate) of all address changes in a timely manner. Students will be held responsible for any failure to receive official college notices due to not having a correct address on file; F-1 students may jeopardize their status if address information is not kept current.

Students can change their address using SIO, which is available via the HUB website: <http://www.cmu.edu/hub/index.html>.

Directory Listings

Carnegie Mellon generally will not disclose personally identifiable information from your education records without your consent **except for directory information** and other exceptions specified by law.

Directory information is personally identifiable information of a general nature that may be disclosed without your consent, unless you specifically request the university not to do so. It is used for purposes like compiling campus directories.

If you do not want your directory information to be disclosed, you must notify The HUB, 12C Warner Hall, in writing within the first 15 days of the semester by completing the "[Directory Information Restriction Form](https://www.cmu.edu/hub/forms.html)" at: <https://www.cmu.edu/hub/forms.html>. The "[Consent to Release Information](https://www.cmu.edu/hub/forms.html)" form is also available at this url.

Disciplinary Action of Matters of Cheating, Plagiarism and Academic

Integrity

Academic integrity is taken very seriously at Carnegie Mellon and in the College of Engineering and Department of Civil and Environmental Engineering. The department follows the [university policy on academic integrity](#) and disciplinary actions for violations.

First, cheating in any form is not permitted as an ethical or professional behavior and will not be tolerated. Cheating includes, but is not necessarily limited to:

- The use of unauthorized materials including computer programs in preparation of an assignment or during an examination.
- The submission or use of falsified data.
- The submission of work that is not the student's own.
- Plagiarism
- The use of an alternate/stand-in/proxy during an examination.
- Supplying unauthorized data to another student for the preparation of an assignment or during an examination. Collaboration in the preparation of an assignment, unless specifically required by the instructor, will usually be viewed as cheating. Each student, therefore, is responsible for understanding the policies of the instructor offering any course as they refer to the amount of help and collaboration permitted in preparation of assignments.

Should any student be found guilty of cheating on a quiz, exam, homework or project, at minimum a zero grade will be recorded and then averaged in with the other grades (should there be any) for the term. Depending on the circumstances, and at the discretion of the instructor and the Department Head, the student may be failed in the course and placed in academic suspension. A repeated occurrence of cheating in a course will be treated as an automatic failure (R grade), removal from the program, and a recommended expulsion from the University.

Plagiarism

Plagiarism is defined as "passing off as one's own the ideas or works of another". Making use of reference material and failing to note (either at all or properly) the original source constitutes plagiarism.

When two or more people work together on an individual project and each then turns in his/her individual report as though no collaboration was involved, this also is plagiarism. Simply rewriting another's words or thoughts, or rearranging another's materials, is in every sense plagiarism - unless the student properly and completely references such material, each and every time it is used and to the full extent of usage.

Should a case of plagiarism arise, the initial responsibility for judging the seriousness of the offense will rest with the Instructor of the course. If the instructor feels that the student was simply sloppy in referencing the material used and plagiarized, a judgment of sloppy professionalism rather than cheating will be made. The grade for the paper, project or thesis will be lowered by one grade point. On the other hand, if the instructor feels that the student plagiarized flagrantly and intentionally meant to mislead the instructor into thinking that the work was the student's own original work, the grade for the report, project or thesis will be recorded as zero.

It should be emphasized that any collaboration that involves individual take-home projects, papers or theses should be carried out only with considerable discretion. Students are encouraged to discuss and collaborate among themselves on the various principles which are expounded in class or covered in the reading material, etc.; but any group discussion or collaboration which involves any specifics of take-home projects, papers or theses should be avoided - unless the ideas or efforts of others are to be properly noted. Put differently, when individual work and thinking is called for, group thinking and/or work is entirely inappropriate and is a form of plagiarism.

Group projects are often assigned in classes. In a group project, it is important for all members of the group to hold each other to high standards of academic integrity. It is important for all members of the group to review the entire product of the group effort, e.g., the entire final report, before it is submitted and to be confident that the product meets high standards of academic integrity. If there is an academic integrity problem with any part of the group product, the entire group will face the same disciplinary action.

In any case of cheating or plagiarism, and depending on the nature of the offense, research assistantships and scholarships may be temporarily or permanently rescinded. The student may request a review of the instructor's decision by the department head, who will make the final decision for the department. The student, of course, can appeal any faculty decision to the University Committee on Discipline. In a case of flagrant cheating by a graduate student on a thesis, the matter may be forwarded to the Disciplinary Committee for stronger action.

In accordance with the university's policies, a student who violates the academic integrity policy will not be permitted to drop the course in which the offense occurred in order to avoid penalty.

[University Policy on Cheating and Plagiarism](#)

[University Academic Disciplinary Actions Overview for Graduate Students](#)

Academic Integrity

Please review the University Policy on Academic Integrity (<https://www.cmu.edu/policies/student-and-student-life/academic-integrity.html>). The policy includes the University expectations around academic integrity and provides definitions of cheating, plagiarism, and unauthorized assistance.

A review of the University's Academic Disciplinary Actions procedures (<https://www.cmu.edu/student-affairs/theword/academic-discipline/index.html>) is also recommended. These procedures outline the process for investigating, reporting, and adjudicating violations of the University Policy on Academic Integrity. The procedures also outline the appeal process.

PhD and Research MS Obligations, Assistantships and Financial Information

Support for graduate study is only offered to full-time students (36 units). This support is given on a selective and competitive basis. All graduate students, regardless of support status, are required to participate in educational and professional activities such as the creation of thesis research or projects, teaching, and participation in departmental seminars.

Assistantship Appointments

Graduate research assistantship appointments are offered as support of full-time graduate study and not as regular employment; the appointments do not carry employee fringe benefits such as paid vacation, sick leave, or health insurance.

Academic Year Appointment	August 16 to May 15	Renewed after the academic records have been reviewed in the spring and, in some cases, at the end of the summer.
Split Appointment (One Semester)	Fall: Aug 16 to December 31 Spring: January 1 to May 15	
Summer Appointment	1-3 months May 16 to Aug 15	Summer support for one to three months from June through August is often available, no commitments to the students will be made prior to April 1 of the same year.

Appointments for the following academic year may not be made until the department has reviewed resources, particularly externally funded research contracts. Some academic year appointments may be made conditionally, contingent, for example, upon the completion of the MS project report or the completion of Part II of the Doctoral Qualifying Examination.

As a research assistant you should discuss your progress with your faculty advisor(s) periodically to ensure that you are meeting the obligations of your appointment and to determine if you will be able to renew your appointment. Continuation of a research assistantship is dependent on a student maintaining satisfactory academic and research performance. Typically, the Department reviews all graduate appointments during the Spring semester for consideration of new and continuing appointments for the following academic year. Questions concerning your reappointment should be directed to your academic advisor or to the Department Head.

Faculty members generally budget student financial assistance over the standard duration of the student's tenure at Carnegie Mellon. However, research funding is often reliant on external sources and is not guaranteed. If lack of funding does become an issue, you will be notified in writing of any change in financial support at least one semester in advance of the semester in which the termination of funding is to occur. In the event that your funding is terminated, additional funding resources may be secured. Alternatively, you can attempt to locate another advisor with research assistantship funding. We strongly encourage all graduate students to seek funding from external sources such as fellowships and grants ([see Fellowships and Scholarships below](#)).

Summer Appointments

Summer appointments are primarily research based but there are occasionally appointments that will include some teaching, academic course preparation etc. If you are interested in a Summer appointment you will need to discuss this with your advisor prior to April 1. Summer appointment offers are made during the period April 1 – May 1, and need to be arranged in advance among you, your advisor and [Cathy Schaefer](#), the CEE Director of Finance and Administration.

Payroll

Most stipends and fellowships are processed via the CMU Works Service Center. Students with stipends or fellowships will visit the Service Center office in person to present required documents and complete an I-9 form regarding level of tax withholding. Stipends are issued semi-monthly. Specific payment dates can be found on the payroll calendar, listed here: <https://www.cmu.edu/finance/calendar/index.html>.

Payroll information and payment is disseminated electronically at CMU, through the “Workday” system: <https://www.cmu.edu/my-workday-toolkit/>. You can access and update your personal information, tax withholding, enter hours (if applicable) and view pay slips in WorkDay. You can also enroll in direct deposit through Workday to have stipends deposited automatically into your bank account.

You can visit the CMU Works Service Center in person at 4516 Henry Street, by phone at 412-268-4600, or email cmu-works@andrew.cmu.edu.

Social Security numbers (SSN) are necessary for taxation purposes. You may begin your position without a SSN, but must apply as soon as possible within the federal guidelines. Specific guidance can be found at: <https://www.cmu.edu/oie/docs/ssn-instructions.pdf>.

Please contact [Jodi Russo](#), CEE Personnel Administrator if you are unable to access or update the information in WorkDay referenced above.

Stipend Deductions

Tuition is only a portion of the cost of attendance at CMU; fees including transportation, activity, and technology are also assessed. The Student Accounts office is provided with the tuition and stipend information for each student prior to the start of the semester, however, you should review your student account to ensure that proper tuition and fees are deducted from your stipend payment, and that the deductions are properly credited to your account. You can reference your student account information through the Student Information Online (SIO) system. Information about tuition rates and fees can be found at: <https://www.cmu.edu/sfs/tuition/graduate/cit.html>.

If you find a discrepancy in your billing, please contact HUB liaison, Melissa Skasik, at <mailto:skasik@andrew.cmu.edu>. For inquiries related to scholarships posting on your student account, please contact Jodi Russo, at <mailto:jrusso@andrew.cmu.edu>.

Tax Status and Filing

CMU fellowships and assistantships are intended to provide financial support for graduate students and are not regarded as regular employment by the University regardless of whether the sources of funding are internal or external. The University will cooperate in providing information necessary for you to file claims for income tax exemptions.

At the present time, Civil and Environmental Engineering graduate assistantships (stipend portion) are exempt from PA State and Pittsburgh Local earned income tax. Federal tax is assessed on stipends. The tuition portion is exempt from federal, state and local taxes. Statements to this effect are on file in the payroll office for each graduate student on an assistantship. Graduate student scholarships are not taxable.

International students should consult the Payroll Office (4516 Henry Street) regarding taxability and tax treaties. Please consult the policy on [Tax Status for Graduate Student Awards](#) for detailed information about tax-exempt status.

The deadline for filing local, state, and federal tax returns is April 15 each year, for the previous calendar year. You can obtain tax forms in the mail, at the post office, or at the Carnegie Library. Tax forms related to your stipend will be mailed to you by the CMU Works Service Center. Questions about your tax status should be addressed to the IRSTeleTax at 412-261-1040, or the Pennsylvania Department of Revenue at 412-565-7540. Although subject to federal taxes, student stipends are generally not assessed local or state taxes. Tax filing resources for international students can be found on the OIE website at:

<https://www.cmu.edu/oie/news-and-events/2017-2018/march/tax-student.html>.

Tuition and Financial Obligations

New fall tuition rates are approved each spring by the Board of Trustees and published throughout campus. Tuition and fee payment arrangements are made directly through the Hub. It is your responsibility to assure that your student debt is settled by the published dates. Diplomas and transcripts will not be presented until the student's financial debt is settled.

Please see [The Word](#) for additional information.

Semester Breaks and Time Off

Students with graduate assistantships are expected to continue with their research during academic breaks (including the summer months) with the exception of the official university holidays. Please see [The Word](#) for additional information.

University Holidays

New Year's Day	Labor Day	Day before Christmas
Martin Luther King Day	Thanksgiving Day	Christmas Day
Memorial Day	Day after Thanksgiving	Day before New Year's
Independence Day		

Due to federal regulations governing graduate student support, paid time off for personal business and vacations is not provided. If you are receiving support and are interested in take a week break in the summer, you will need to get approval from your faculty advisor beforehand. You will also be expected to make up that weeks' work in the other three weeks of the month. Decisions on breaks and time off can be affected by foreign travel destination. Please be sure to relay foreign destinations to your advisor and the CEE Business Office. Students supported by federal funds may be required to forego stipend during such trips.

If you need to take a longer period of personal time off you will need to have your research advisor approve your request

a minimum of four weeks prior to when you would like to take your time off. Extended periods of time off are taken without pay. Please complete a "Research Assistant Personal Time-Off Request Form" (linked below) and have it signed by your advisor. You can get this form from the Director of Graduate Programs. The advisor will notify the [Director of Graduate Programs](#) and/or the [Department Business Office](#) of your arrangements so that an appropriate adjustment in your stipend can be processed.

[Research Assistant Personal Time-Off Request Form](#)

External Employment

If you are receiving university support, you are not permitted to accept employment for compensation outside of the department for the duration of your appointment.

Maternity Leave

The University has teamed with campus partners as resources to support student birth mothers at all levels of the university in order to reinforce the commitment to the health and wellness of Carnegie Mellon students as they balance their academic and personal priorities.

The Student Maternity Accommodation Protocol can be found at: <http://www.cmu.edu/graduate/programs-services/maternity-accommodation-protocol.html>. This document provides guidance on the standard accommodations and financial options available to female students who anticipate giving birth to a child.

The Student Maternity Accommodation Protocol provides direction in three areas:

- Time away from academic responsibilities for a new birth mother either as a short-term accommodation or as a formal leave of absence,
- Financial resources including an interest-free student maternity loan, stipend continuation for funded doctoral students and tuition adjustments,
- University resources to support students, faculty and staff through the process of planning for the time away and support for the new birth mother.

Doctoral students who receive an academic stipend funded by Carnegie Mellon are eligible to continue to receive stipend funding for up to six (6) weeks during a Short-Term Maternity Accommodation or a Formal Leave of Absence. Continued academic stipend funding may be extended by two (2) weeks, for a total of eight (8) weeks, if an absence longer than six weeks is medically necessary. To receive this support students must be registered with the Office of the Dean of Student Affairs for a Maternity Accommodation.

Questions or need further information, should be directed to either [Renee Camerlengo](#), Assistant Dean of Student Affairs, reneec@andrew.cmu.edu, 8-2075 or [Suzie Laurich-McIntyre](#), Assistant Vice Provost for Graduate Education, slaurichmcintyre@cmu.edu, 8-7307, [Shelley Anna](#), Interim Associate Dean for Graduate and Faculty Affairs, 8-6492.

Research Responsibilities

The second part of a Graduate Assistantship is work in research, which in many cases is supported by external funding. Usually the research assistance will be on a subject which will become your thesis, so it is difficult to separate the time required for the research segment of your assistantship from the time spent working on your thesis.

In combination, the amount of time you spend on your research is often thirty hours or more per week. However, those few cases where the research assistance is not on the same topic as your thesis, it is necessary to clearly define the requirements for the assistantship as 20 hours.

During a semester in which you are serving as TA and doing research, the obligation for research is no more than ten to fifteen hours per week. In combination with teaching the total obligation is 20 hours. It is the intention of the Department to have all students doing research that leads to a thesis so that the situation noted above does not develop.

Academic requirements are the same for all students pursuing a research-based degree. Self-funded MS and PhD students are not required to participate in the research program.

Responsible Conduct of Research (RCR) Education

CEE fully supports the position of the university on research ethics, as stated on the [Office of Research Compliance site](#):

Carnegie Mellon University promotes the responsible conduct of research through high standards of ethics and accountability in planning, conducting and reporting research. The responsible conduct of research is demonstrated through behavior that meets generally accepted standards. These standards are set forth by state and federal regulations, institutional policies, professional codes of conduct and personal convictions.

If you are involved with research you are required to take the appropriate online training offered by the Collaborative Institutional Training Initiative (CITI) prior to beginning your research program. For CEE graduate students, the CITI **Physical Science Module** package is recommended rather than the module package for engineers, although both are acceptable.

The course(s) may take a few hours to complete but can be done over a period of time. Upon completion of the course, print your certificate of completion and submit to the [Director of Graduate Programs](#).

Teaching Responsibilities

The teaching part of the program is a fundamental part of your graduate experience. This experience will provide both a valuable learning and mentoring experience. All graduate students (with the exception of non-research masters and part-time students) are expected to serve as a Teaching Assistant (TA) for one course each year with an average time commitment of ten hours a week. Typical teaching responsibilities are varied, depending on the needs of the course and the instructor. Examples of some of the most common responsibilities are:

- Attending class

- Grading (homework, exams, labs, quizzes, reports)
- Preparing for and assisting students in laboratory sessions
- Preparing and teaching recitation
- Assisting students during office hours
- Creating problem sets and solutions

TA Assignments

PhD students entering the graduate program with an MS degree will be required to TA a maximum of four times. MS research assistants will be required to serve as a TA for one or two courses while in the MS program. Students serving as TA will register for 12-793 Graduate Teaching Assignment for each semester that you serve as a TA. This will provide documentation of your teaching assistant experience.

Faculty will be contacted each May and November with a request for TA recommendations for each of their advisees. At that time, faculty members are encouraged to meet with each student eligible for TA responsibilities to discuss their strengths, interests, and TA preferences. Advisors will then make TA recommendations to the Department Head, who will in turn, make the final assignments. The final TA assignments are ultimately the decision of the Department Head.

Teaching assistant responsibilities are normally confirmed approximately one month prior to the start of the fall and spring terms. If you are interested in being assigned to a particular course or for a specific term, you should communicate your interest to your advisor in May for classes in the fall semester and in early November for classes in the spring semester. **When assignments are made the department considers your requests as well as the obligations to your funding source(s). Every effort will be made to match your interests, but perfect matching cannot be guaranteed.**

You may not be enrolled in a course in which you assigned as a TA. Exceptions will be considered upon faculty request in special situations when the TA responsibilities are limited to software support, lab set-up, or course logistics. In these cases, however, you will not be permitted to grade.

Teaching assistants will typically be assigned to classes with an enrollment of 11 or above at the discretion of the Instructor and the Department Head. Additional TAs will be added should the enrollment and workload warrant. The Department Head, on a case-by-case basis, will consider faculty TA requests for classes with less than 11 students but with lab or other significant logistical requirements.

TA Training

To ensure adequate preparation for assigned TA duties, all graduate students with TA requirements must register and attend course 12-790 "Teaching Workshop." This course is comprised of five seminars distributed over the fall semester.

The Eberly Center for Teaching Excellence assists both faculty and graduate students to improve teaching practices through seminars, classroom observation and feedback, documentation of teaching development, and a monthly reading and discussion group. For more information about the services offered through The Eberly Center, visit their website at:

<http://www.cmu.edu/teaching/eberlycenter/>

Requirements for Non-Native Speaking Teaching Assistants

Graduate students are required to have a certain level of fluency in English before they can instruct in Pennsylvania, as required by the English Fluency in Higher Education Act of 1990. Through this Act, all institutions of higher education in the state are required to evaluate and certify the English fluency of all instructional personnel, including teaching assistants and interns. The full university policy can be reviewed at: www.cmu.edu/policies/documents/EngFluency.html.

Non-native speaking teaching assistants (TAs) must take the International Teaching Assistant Test (ITA) administered by the [Intercultural Communication Center](#). Please refer to the [Overview of ITA](#) website for testing instructions and scoring guide. In addition to administering the International Teaching Assistant (ITA) Test (a mandatory screening test for any non-native speaker of English), the Intercultural Communication Center (ICC) helps teaching assistants who are non-native English speakers develop fluency and cultural understanding to teach successfully at Carnegie Mellon. Visit the ICC website for additional information: www.cmu.edu/icc.

Faculty Mentoring

Faculty members aim to provide a positive and meaningful TA mentoring experience. You should meet with your assigned faculty member prior to the first class each semester to discuss their requirements and expectations. If the faculty member has not contacted you beforehand, you should initiate contact and request a meeting with them.

Faculty supervising more than one TA in a class should make every effort to insure that the TA responsibilities are distributed equally between TAs assigned to that class. Faculty members should also monitor TA workloads to insure that it does not average more than ten hours per week. Any workload which regularly requires more than ten hours of work per week of the TA's time should be reported to the instructor or the department head so that additional TAs or alternate arrangements can be considered.

As stated above, it is expected that your teaching assistant experience will be mutually beneficial to both you and the instructor and that a positive Instructor/TA relationship will be established. Should a conflict arise, it is recommended that both the instructor and TA do their best to resolve the issue among themselves. However, in situations where this is difficult, the instructor and/or teaching assistant are encouraged to bring their concerns to the Department Head for resolution.

Fellowships and Scholarships for PhD Students

Fellowships look great on resumes and the department encourages students to apply for all fellowships for which they are eligible, even if they are currently supported by departmental, grant or research money. Aside from the professional advantage, full and partial fellowships can help to defray the cost of the educational experience and the burden on the research group. Faculty and the Director of Graduate Programs will make every effort to disseminate fellowship and scholarship information as it becomes available, however students are encouraged to actively seek out potential funding sources as well. When applying for or receiving an outside funding, it is important to notify the CEE Business Office to ensure the application of the funds are properly used and optimized. Neglecting to share this information may cause an unpaid balance on your student account which may prevent you from registering or graduating.

Several of the fellowships that our students commonly apply for include:

- [National Science Foundation](#)
- [EPA-STAR](#)
- [National Defense Science and Engineering](#)

For a complete list of available fellowships for which you might apply, please visit the [Carnegie Mellon Fellowships and Scholarships Office](#).

University Financial Aid, Loans and Fellowships for MS Students

Consult the Graduate Financial Aid Guide for information about funding options and how to apply for financial aid and other helpful links on The HUB website for financial aid opportunities: <https://www.cmu.edu/sfs/financial-aid/index.html>.

Students who are interested in applying for external fellowships should see their advisor or check the on-line information provided by the [Fellowships and Scholarships Office website](#). The Web site is an excellent resource for locating an abundance of information regarding available funding for students.

Emergency Loans

If you are in need of immediate funds for emergency situations, contact the Office of the Dean of Student Affairs www.cmu.edu/student-affairs/index.html, to inquire about an Emergency Student Loan.

External Funding Opportunities Outside Carnegie Mellon - U.S. Department of Education Resources

U.S. citizens and permanent residents may complete the Free Application for Federal Student Aid (FAFSA) on line at <http://www.fafsa.ed.gov/>.

Students may obtain information regarding their loans through the William D. Ford Direct Loan Program, including deferment forms and payment information at <https://www2.ed.gov/programs/wdffd/index.html>.

Information about the federal student aid programs may be found at www.studentaid.ed.gov.

Additional Loan Resources

Grad PLUS

Effective July 1, 2006 a graduate or professional student may be eligible to borrow a [Federal Graduate PLUS Loan](#). This loan allows you, not your parents, to borrow up to the cost of attendance less any other financial aid you receive. It has a fixed interest rate of 8.5%, and no aggregate limits. You must be a US citizen or permanent resident to qualify. Credit checks are also required to determine eligibility, but the credit criteria are much less stringent than for most private alternative loans. If you don't meet the credit criteria you may still

obtain the loan with an “endorser” who does meet the credit requirements. PLUS applicants cannot have adverse credit based on a review of at least one credit report from a national credit reporting agency. Adverse credit is defined as:

- No Federal Student Aid loans in default or delinquent status
- No accounts that are 90 days or more past due
- No evidence of default, foreclosure, tax lien, repossession, wage garnishment, or judgments in the last 5 years
- No accounts in collection
- No accounts that were “write-offs” or never able to collect upon a lack of credit history or insufficient credit history is not considered adverse credit. Credit-worthiness is not based on a FICO score, debt to income ratio, or annual salary. **You must complete a FAFSA and have applied for your annual loan maximum eligibility under the Stafford program first.** You will also have to complete a Master Promissory Note (MPN) and Addendum for this loan.
- The interest rate is **fixed at 8.5%**. The difference between lenders will be the “repayment incentives” they offer students to reduce the cost of the loan and possibly the interest rate during repayment as well. Because interest rates seem to be on the rise, and private alternative loans have variable rates with no upper limit, we are recommending Graduate PLUS for 2006-07 in lieu of alternative loans. Attached please find a comparison chart.

If you decide to apply for the GRAD PLUS loan here at SAIS, here are the instructions: You will need to log into <http://www.asa.org>. You will need to follow the instructions for applying for the GRAD PLUS loan and be sure to complete your Master Promissory Note. A drop down list of our preferred lenders will pop up for your convenience. Preferred lenders have been chosen because of the benefits that they offer our students and in addition, **will not** charge the 1% default fee mentioned in the attached comparison chart. If you choose to go with an outside lender, please keep in mind that there is a possibility that you **may** be charged a 1% default fee.

Private Loans

Students who need additional funds beyond the financial aid package offered by SAIS have the option to borrow funds through a private lender. These loans are credit based, so applicants may need a cosigner. International students may utilize private lenders if they have a US citizen or permanent resident as a cosigner. While many banks offer private educational loans, SAIS recommends that students apply first through Citibank, which offers competitive interest rates and exceptional customer service. To apply for a Graduate Citiassist Loan through Citibank on line, please go to <https://studentloans.net/citibank-student-loans/>.

If you are unable to obtain a loan through Citibank's Graduate Citiassist Loan Program or you would prefer to use a different lender, you may wish to consider the following loan programs:

- [Sallie Mae](#)
- [Bank of America](#)

Other Resources

The following websites are available for researching other sources of financial aid. Please be sure to pay close attention to the stated application deadlines.

- www.fastweb.com
- <https://www.collegenet.com/elect/app/app>
- www.SALLIEMAE.COM
- [College Board Scholarship Search](#)
- Fastaid.com
- [Fellowship Resources Compiled by the Soros Fellowship](#)
- [Harry S. Truman Scholarship Foundation](#)

Additional Sources of Financial Aid for International Students

The following information is designed to help international students in the search for additional sources of financial aid for attendance at SAIS. This list includes a Fellowship Program from the Institute of International Education, a number of Loan Programs, and relevant websites and online sources of information.

I. Grants and scholarships:

1. Institute of International Education (IIE)

The IIE is a nonprofit organization that promotes international education. They provide information about the Fulbright Program on their website: www.iie.org. Number and amount of grants differs from country to country. They also publish several useful guides, including *Funding for US Study: A guide for Foreign Nationals*, *English Language Orientation Programs* (a guide to ESL programs in the US), and *Academic Year Abroad*. Books can be ordered through e-mail to iie-books@iie.org.

You may also write to:

Institute of International Education (IIE)
809 United Nations Plaza
New York, NY 10017-3580

2. Ford Foundation International Fellowship Program (IFP)

The Foundation sponsors three minority graduate fellowship programs – pre-doctoral, doctoral, and postdoctoral - through the National Research Council. For information write or call the

National Research Council
2101 Constitution Avenue
Washington, DC 20418
tel: (202) 334-2872

The IFP provides support for up to three years of formal graduate-level study. Fellows will be selected from countries in Africa and the Middle East, Asia, Latin America, and Russia where the foundation maintains active overseas programs. U.S. nationals are not eligible, although fellows may study in the United States. IFP Fellows must be nationals of eligible countries.

Please refer to the following website for more detailed information concerning the application process, eligible candidates, and IFP requirements: www.fordfound.org

International students may find the information on the websites below helpful in researching funding sources:

- www.internationalscholarships.com
- www.edupass.org
- www.educationusa.state.gov
- [Womens Leadership Scholarship](#)
- <http://www.onsf.uconn.edu/find-scholarships/opportunities-for-non-us-citizens/>

Other Funding

Fenves Travel Grant

The Fenves Travel Grant was created to provide partial conference funding support to graduate students who will be traveling to a professional conference in order to present a paper. Applicants wishing to apply for this grant should have no other means of travel funding, or have exhausted all available travel support from their faculty advisor (including research and discretionary funding).

To apply for a Fenves Travel Grant, you will submit the [Fenves Travel Grant Application](#) form outlining the specifics of the conference to [David Vey](#).

There are three application periods in which students can apply for the grant:

Fall Travel	Application submitted between August 1 – July 1	Decisions made no later than July 15
Spring Travel	Application submitted between August 1 – November 1	Decisions made no later than November 15
Summer Travel	Application submitted between December 1 – March 1	Decisions made no later than March 15

The maximum amount available for funding period is \$600, and no student will be awarded more than two grants while in the program. The grant will be divided equally between awardees should more than one recipient be selected.

In order to allow the department to provide more students with Fenves Travel Grants, applicants are expected to also apply for Graduate Student Assembly Conference Funding. If awarded, the following progression of use should apply:

1. Graduate Student Assembly Conference Funding
2. Faculty research and discretionary funding

3. Fenves Travel Grant
4. Personal funds

Each recipient will be required to provide a travel report in short article form, along with a photo, outlining their presentation, which will be submitted to Professor Fenves and may be used in official communications.

Graduate Small Project Help (GUSH) Funding

GuSH Research grants provide small grants of \$750 to graduate students for research at Carnegie Mellon University. Grants are provided by the Graduate Student Assembly and the Provost's Office, and are managed by the Office of the Assistant Vice-Provost for Graduate Education.

GuSH grants are to be used against costs incurred in the completion of research required for a graduate degree at Carnegie Mellon. These funds are to be utilized if your personal or departmental resources have been exhausted. You are eligible for one grant in each fiscal year (July 1 to June 30) that you are a graduate student.

Complete information, as well as application for these funds can be found online at:

<http://www.cmu.edu/graduate/professional-development/research-funding/index.html>. Note that it's important that the CEE Director of Finance and Administration's name (Cathy Schaefer) be entered in the field titled "Business Manager" on all applications for GuSH funding so that awarded funds are appropriately credited to your account.

Funding Conferences and Seminars

When funding allows, conference attendance expenses may be provided to participants in funded research projects and will be covered by these research funds. Conferences are expected to benefit your work or development. If you are self-funded or if your funding resources have been exhausted, you are eligible to apply for a Fenves Travel Grant to attend a relevant conference.

Students are also encouraged to apply for [Graduate Student Conference Funding](#) funded by the [Graduate Student Assembly](#). Note that it is important that the CEE Director of Finance and Administration's name (Cathy Schaefer) be entered in the field titled "Business Manager" on all applications for GSA funding so that awarded funds are appropriately credited to the awardee's account.

Summer Internships

Graduate students wishing to do a Summer Internship are responsible to secure their position. International Masters students interested in working off campus during the Summer may apply for CPT status provided that they have completed one academic year of full-time enrollment and will be enrolled in the Fall semester.

PhD students that are required to be off campus to collect data for their research may be permitted to apply for CPT. Because the PhD program does not have a course requirement all other PhD students wishing a Summer Internship would apply for pre-completion OPT. PhD students who will be doing an internship will be coded either INT or IDR. The INT

program code follows the Summer All calendar. The IDR program code is used for students who will continue to be supported through the entire summer.

MS Internships must be in a CEE related field, have academic oversight, and will be counted toward the MS degree. Student Interns will register for 3 units of 12994 (CEE Internship) and will be assessed tuition for these units. MS students doing an internship will be coded INT and MS students remaining on campus to do research will be coded MMR. An Internship Plan Form must be submitted once the position is secured, and a Final Internship Report will be submitted once the Internship is complete for grading.

[Summer Internship Plan Form](#)

[Summer Internship Final Report Form](#)

International student must consult with the Office of International Education for eligibility before seeking an internship or signing an offer contract. It is also recommended that international students review the CPT handout at: <https://www.cmu.edu/oie/foreign-students/docs/cpt.pdf> for detailed information about this employment authorization option.

CEE Contacts for Graduate Students

A comprehensive listing of Who-to-Call is listed on our website: <http://www.cmu.edu/cee/resources/who-to-call.html>

Director of Graduate Programs	David A. Vey dvey@andrew.cmu.edu	<input type="checkbox"/> PhD Compliance and policy information <input type="checkbox"/> PhD Degree requirements <input type="checkbox"/> Academic Action Information <input type="checkbox"/> Advisor and TA assignments
CEE Graduate Academic Coordinator	Melissa Ritchie maritchi@andrew.cmu.edu	<input type="checkbox"/> MS Compliance and policy information <input type="checkbox"/> MS degree requirements <input type="checkbox"/> Academic action information
CEE Department Head	David Dzombak dzombak@cmu.edu	<input type="checkbox"/> Advisor concerns <input type="checkbox"/> Conflict resolution <input type="checkbox"/> Concerns & grievances
CEE Director of Finance and Administration	Cathy Schaefer cathysch@andrew.cmu.edu	<input type="checkbox"/> Department finance, operations and administration <input type="checkbox"/> Current student funding
Personnel & Finance Administrator	Jodi Russo jlrusso@andrew.cmu.edu	<input type="checkbox"/> Workday Access <input type="checkbox"/> Scholarship processing / posting to student accounts <input type="checkbox"/> Stipend payments, tuition and fee deduction
CEE Career Consultant for Graduate Students	Lindsay Pelz Luciano lindsay@cmu.edu	<input type="checkbox"/> See Career & Professional Development section (below) for a list of services

Administrative Support	Marilu Lundeen marilul@andrew.cmu.edu	<input type="checkbox"/> Student travel assistance and expense reimbursement <input type="checkbox"/> Student conference registration <input type="checkbox"/> Catering <input type="checkbox"/> Lockout <input type="checkbox"/> Student seminar attendance <input type="checkbox"/> Conference room scheduling <input type="checkbox"/> Videoconference Scheduling <input type="checkbox"/> Professional development funds tracking
CEE Systems Administrator	Nick Lockwood help@ce.cmu.edu	<input type="checkbox"/> Networking, computing, printer, and AV issues with department owned or department issued equipment
CEE Purchasing	Cornelia Moore cornelia@andrew.cmu.edu	<input type="checkbox"/> Purchase of laboratory supplies <input type="checkbox"/> Purchase of computers and related supplies <input type="checkbox"/> Student Group Finances and Reports
CEE Facilities	Brian Belowich bjb4@andrew.cmu.edu	<input type="checkbox"/> Physical Facilities service requests <input type="checkbox"/> ID Card access and keys <input type="checkbox"/> Lockout <input type="checkbox"/> Office Assignments
Interim Associate Dean for Graduate and Faculty Affairs, College of Engineering	Shelley Anna Sanna@cmu.edu	<input type="checkbox"/> Concerns & Grievances
University Ombudsman	Suzie Laurich-McIntyre slaurichmcintyre@cmu.edu	<input type="checkbox"/> Graduate Student Advocate

CEE Career and Professional Development Services

Graduate Students in the College of Engineering have a team of Career Consultants to assist you with your job search from start to finish. Lindsay Pelz Luciano and Marcie Foy are the dedicated consultants for Civil & Environmental Engineering.

You may make an appointment with Lindsay or Marcie to discuss one or more of the topics below. To schedule an appointment, [login to](#)

Handshake and click “Request Appointment” on the right-hand side of the home page. Lindsay will also hold weekly office hours in the CEE department for 15-minute drop-in appointments with graduate students (day/time will vary each semester).

- Resume and cover letter review
- Networking
- Job/internship search strategies and resources
- Job fair preparation
- Interviewing skills/mock interviews
- Job offer evaluation & negotiation

Handshake is CMU’s online recruiting platform through which you will be able to:

- Schedule appointments with your career consultant
- View and RSVP for career fairs and career events
- Search and apply for both on- and off-campus jobs and internships
- Sign up for on-campus interviews
- Research employers/organizations that recruit at CMU
- Upload your resume/cover letter for employers to view

For additional information on career resources and events, please visit the Career & Professional Development website: <http://www.cmu.edu/career/>.

CEE Press and Media Relations

To assure consistency in all communications and to maximize external visibility to target audiences the Department Head and Mireille Mobley, Director of Communications work together to coordinate key messages and activities involving publicity.

The Director of Communications is the point-of-contact for all departmental communications. She is responsible for the strategic planning for publicity and (depending on the specific project or issue) developing news stories or multi-media for the CEE website and social media channels.

Students that are contacted by a media representative are required to immediately inform either the department head or communications coordinator. Students should not answer questions from journalists without first seeking counsel from one of these department representatives.

Persons interested in publicizing a program, project, event, or other activity affiliated with CEE should contact the Director of Communications (Mireille Mobley) or the Department Head (David Dzombak). They can provide counsel to coordinate publicity efforts internally (internal news channels, magazine,) or externally (press releases, podcasts, web video, press

releases, etc.).

Upon enrollment, graduate students are asked to give permission to take (or have taken on its behalf) photos and/or videos of their image and to use their name and image for educational and promotional purposes in any medium, including the Internet. Questions should be addressed to [Mireille Mobley](#).

Health and Wellness

Health Insurance and Inoculations

The University has a mandatory policy for student health insurance coverage. All degree seeking students enrolled in full time programs are required to have health insurance and are automatically enrolled in the basic mandatory health plan for the period August 1 through July 31. The charge for health insurance will be added to your student invoice.

Students may choose to add a dependent(s) or apply for a waiver from the plan because of existing coverage. Charges will be removed after the waiver is approved. Online enrollment waiver forms, as well as additional information about university health insurance can be found at: www.cmu.edu/HealthServices.

Additional information on the health insurance procedures and payment options can be found at: <http://www.cmu.edu/health-services/student-insurance/index.html>

If you leave the university before the term that your insurance is completed, you are responsible for canceling your health insurance policy, if you wish. In some cases, a prorated refund may be issued. Those not cancelling will be covered for the duration of the plan (through July 31)

Immunizations

Please note that two doses of measles vaccine or proof of past infection are required if you were born after 1956. You will be administratively suspended from the university if this requirement is not met.

In addition, all students must have had a Tuberculin skin test performed within the last year or proof of a negative chest x-ray. This also applies to students who have had BCG vaccination in the past. Most vaccines are available at Health Services.

University Smoking Policy

Carnegie Mellon University has a vital interest in maintaining a healthy and safe environment for its students, faculty, staff and visitors while respecting individual choice. Information about the campus smoking policy can be found [here](#).

Assistance for Individuals with Disabilities

The Office of Disability Resources at Carnegie Mellon University has a continued mission to provide physical and programmatic campus access to all events and information within the Carnegie Mellon community. We work to ensure that qualified individuals receive reasonable accommodations as guaranteed by the Americans with Disabilities Act (ADA) and Sections 503 and 504 of the Rehabilitation Act of 1973. Students who would like to receive accommodations can begin the process through [Disability Resources secure online portal](#) or email access@andrew.cmu.edu to begin the interactive accommodation process.

Students with disabilities are encouraged to self-identify with the Office of Disability Resources by contacting Catherine Getchell, 412-268-6121, getchell@cmu.edu to access the services available at the university and initiate a request for accommodations.

Safeguarding Educational Equity

Policy Against Sexual Harassment and Sexual Assault

The University prohibits sex-based discrimination, sexual harassment, sexual assault, dating/ domestic violence and stalking. The University also prohibits retaliation against individuals who bring forward such concerns or allegations in good faith. The policy can be viewed in its entirety at: http://www.cmu.edu/policies/documents/SA_SH.htm. If you have been impacted by any of these issues, you are encouraged to make contact with any of the following resources:

- Office of Title IX Initiatives, <http://www.cmu.edu/title-ix/>, 412-268-7125, tix@cmu.edu
- University Police, 412-268-2323
- University Health Services, 412-268-2157
- Counseling & Psychological Services, 412-268-2922

[Additional resources and information can be found at: https://www.cmu.edu/title-ix/resources-and-information/resources.html.](https://www.cmu.edu/title-ix/resources-and-information/resources.html)

Purchasing and Reimbursements

Purchasing

All purchases of goods, services, and equipment using University funds, including restricted accounts and research grants and contracts, must receive approval from [Cathy Schaefer](#), the Director of Finance and Administration, and, in the case of research grants and contracts, the faculty principal investigator.

Questions should be directed to [Cathy](#) or [Cornelia Moore](#), the CEE Buyer & Business Support Administrator.

Please complete all requested information to insure prompt and accurate purchases. If you are not sure, ask before buying.

Only authorized department staff is able to confirm an order with an outside vendor. Receipts and packing slips for all purchases are to be promptly given to Cornelia Moore for reconciliation and purchase documentation.

Please plan ahead. Rush orders for pick-up or delivery and orders of over \$1,000 are difficult to accommodate.

Reimbursement Policy

If you make a business or travel related purchase using your own funds you will need to have prior approval from your PI and/or by the CEE Director of Finance & Administration, [Cathy Schaefer](#). All expenses will need to follow university reimbursement procedures. All receipts over \$74.99 must be submitted along with your expense reimbursement form. This form will need to be signed by your advisor or PI or approved in email. Tax will only be reimbursed for travel and meal expenses. College of Engineering Policy requires reimbursement request to be submitted within 30 days of occurrence. Reimbursement requests processed after 90 days of occurrence will be subject to federal tax as additional income.

Business Expenses

Legitimate business expenses can be reimbursed by the department. [Marilu Lundeen](#) will help you claim reimbursement provided you have the following:

- Receipt indicating item purchased and proof of payment
- Business purpose for purchasing item
- Account to be charged for reimbursement
- Approval (by faculty) and subsequent signature for reimbursement
- Signed expense report

Please consult with [Marilu Lundeen](#) prior to incurring the expense for additional instruction.

Tax Exemption

You are not permitted to use CMU's sales tax-exemption when using personal funds to make a purchase. All receipts must have proof of purchase indicated. For business expenses, sales tax will not be reimbursed under any circumstance, except for non-travel business meals. To avoid paying tax on qualified purchases, ask [Cornelia Moore](#) to purchase the item for you with a University-provided Procurement Card.

Travel Expenses

Legitimate travel expenses can be reimbursed by the department. [Marilu Lundeen](#) can help you claim reimbursement once

you provide the following:

- Hotel receipts must show a zero balance with proof of payment and your name
- Receipts for meals must be collected, unless you claim per diem meals; both daily meals and per diem meals cannot be claimed for the same travel expense report. Students may only claim per diem meals with advisors' explicit approval.
- Personal car mileage is calculated at the current rate per mile; mileage covers gas, but not tolls. You will need to include a print-out showing the distance to the location from a service like google maps.
- Business purpose for travel
- Account to be charged for reimbursement
- Approval (by faculty member) and subsequent signature for reimbursement (email accepted)
- Any conference or meeting agenda legitimizing your travel
- Signed [travel expense form](#)

Tax will be reimbursed for expenses incurred due to normal business related travel (hotel, airfare, meals), but NOT for miscellaneous expenses such as the purchase of a replacement mouse for a department laptop, poster board for a presentation, etc., purchased while traveling or preparing for travel. These items should have been purchased through a department-approved buyer, [Marilyn Lundeen](#) thus not incurring tax expense.

Graduate Student Committees

Graduate Student Assembly (GSA)

Your student activity fees fund the [Graduate Student Assembly](#) (GSA). The GSA's purpose is to address graduate students' concerns and providing social activities on and off campus.

The CEE Department receives funding from GSA in accordance with graduate student enrollment each year. Graduate students in the department elect their GSA representatives and those representatives use the funds for various activities in the department.

The campus-wide GSA organization sponsors a number of campus social and educational programs. Within the department, the CEE GSA reps organize and/or contribute, via GSA funds, to the cost of several different social and recreational events, which include student outings, pizza socials, Friday bagel breakfast, etc.

The CEE GSA owns a variety of sports equipment including those for softball, volleyball, camping, soccer, etc. Please speak to any of the CEE GSA Representatives for information pertaining to this equipment.

Graduate Student Advisory Committee (GSAC)

The CEE Graduate Student Advisory Committee (GSAC) meets once each semester. The purpose of the Committee is to serve as a link between the graduate students and the department, making sure that the concerns of the graduate students' are expressed and considered in departmental decision making.

CEE Facilities and Daily Operations

The CEE facilities are available for the academic purposes of the Civil and Environmental Engineering Department. This privilege is not extended to personal and business uses.

All furniture and equipment that is the property of CMU, CEE, or a research sponsor must be accounted for on the department inventory. No equipment or furniture may be moved from its location or taken off campus without written permission in advance from the CEE Business Office. Personal furniture may not be brought to CEE space without the permission of the CEE Business Office. Theft is prosecuted to the fullest extent of internal and external means.

Personal property, including personal equipment, is not included in the department insurance policy. Carnegie Mellon and the Department of Civil and Environmental Engineering cannot be held liable should personal property brought to campus be lost, damaged or stolen.

All CEE community members are responsible for the care of CEE facilities and equipment. If you identify a problem with facilities and equipment, please send an email to help@ce.cmu.edu or contact the CEE Director of Facilities Ron Ripper.

CEE Main Office

The CEE Department offices are located in Baker Porter Hall (BP) 119 and are open from 8:30 a.m. to 5:00 p.m., Monday through Friday.

The Department has a copier, stapler, paper punch, etc. available for your use in BP 119. Photocopying is available in the department for students subject to availability. Please be mindful of CEE resources and photocopy only as necessary. **Note that photocopying published textbooks is illegal.** Consult the Carnegie Mellon Copyright Policy at: www.cmu.edu/policies/documents/Copyright.html for additional information.

Administrative services and office supplies are not provided to graduate students. [The University Bookstore](#), located in the University Center, carries a wide range of office materials for purchase. A coffee machine is located in the kitchen area offering a variety of coffee, tea and hot chocolate at \$0.75 per cup.

Faxes

Sending and receiving faxing is available to students only in limited circumstances. Please see the [Department Receptionist](#) if there is a need.

Mail Services

Outgoing mail is picked up and delivered in the main office once each day, usually around 9:00 am. The [U.S. Post Office](#) branch is located in the University Center. The department staff is authorized to provide postage only for official department business.

Graduate Student Mailboxes

Graduate student business mailboxes are located in the alcove outside of the Alumni Lounge Area. These mailboxes are shared and should be used only for department related mail. Magazines and mail addressed to non-CEE students will be returned to sender.

Graduate Student Office Assignments

We provide study and meeting space for all of our graduate students. PhD students and MS Research Assistants are provided with assigned office space. Where possible, and not in conflict with other directives, these offices assignments are made on a seniority basis, with preferences given to students with the earliest enrollment date, thesis proposal and candidacy exam dates, as well as expected completion. In some cases, offices may be assigned because of specific "sponsored" equipment, faculty preference or shared research.

All offices and communal spaces are connected to the campus and worldwide network.

CEE Masters Students will be provided access to two multifunctional spaces in Porter Hall 107C and Wean Hall 3503. These two spaces are equipped with quiet study areas, collaboration areas, conference tables, computing work stations, and lockers. CEE MS students are encouraged to use these spaces as needed, but must understand that no space is to be permanently occupied. Students using these spaces are expected to clean up after their use of the space, and respect the equipment and furnishings in the rooms, so that others may also be able to enjoy the space as needed.

Please note that PhD/MS research offices and MS collaboration areas are only intended for use by CEE students. If any CEE space is abused by any given student, that student may be denied access to the space in the future. Housekeeping services are minimal; therefore it is *everyone's* responsibility to take care of *all* CEE workspaces. Questions or concerns regarding office space should be directed to [Brian Belowich](#), CEE Facilities and Lab Engineer. You may view the current office list on the [CEE Resource page](#).

Key Access

University ID cards will provide access to the main department doors. PhD and Research MS students will be assigned office space which is accessible by key. A single deposit of \$25.00 (cash only) is required for all department keys, which are required to enter graduate student offices. The deposit will be returned when you return the keys. If you should lose your key, a new one will be issued, however the deposit will be used to cover the cost of the key(s).

MS student will use their university ID to access all department space.

Computing

Carnegie Mellon has a large and complex computing environment with many unique aspects. Computing ranges from personal computers through workstations to high-performance computers at the Pittsburgh Supercomputing Center. As a Carnegie Mellon student, you will encounter a variety of these computing facilities: those operated by the CEE department and those operated by [Computing Services](#), as well as other departments' computing facilities. In total, the university has thousands of machines, all connected together in a vast network.

The CEE department maintains computing labs for CEE student use, departmental printing, research and laboratory equipment, and software licenses. [Nick Lockwood](#), the CEE Systems Administrator, is responsible for assessing and maintaining computing resources for the entire department. He also works with faculty to ensure that all software being taught in CEE courses is available to students. The allocation of computing resources is managed by the Departmental Computing Committee, chaired by the [Department Head](#).

The Computing Services department maintains much of the university computing infrastructure. This includes, but is not limited to: email accounts, network access, web publishing services, software licensing, Box cloud storage and public computer labs.

Please note, as with all personal property left on campus, CMU will not be able to reimburse you for the loss of your personal computer, no matter the cause. Please check with your tenant's or homeowner's insurance company for coverage details.

Loaner Equipment

The department has several laptops and other equipment available for short-term use. Please check availability and reserve equipment through [Nick Lockwood](#). The equipment is lent only for short periods of time and should not be used on a regular basis. As with all computing equipment, please set up and test the equipment first before relying on it.

CEE Green Practices

Carnegie Mellon has had a, university-level commitment to environmentally progressive and sustainable practices on campus since the mid-1990s. The [Green Practices Committee](#) is a university committee of students, staff, faculty, and administrators that work in close partnership with campus facilities management and the campus design development groups on environmental projects that span all areas of campus life.

CEE students, staff, and faculty members have been very active in the Green Practices Committee and its work. The CEE Department is a campus leader in implementation of environmentally progressive practices. We have a [CEE Green Team](#) that works to advance environmentally progressive practices continuously in the department. Student participation with the CEE Green Team is welcome.

Recycling and Composting

Recycling and composting containers are available throughout the department in centrally located pickup locations. The department has a supply of compostable plates, utensils, and cups, which are used at department social events. Nearly all department events generate almost all compostable materials, and thus are “near zero waste” events.

Print cartridges and batteries can be recycled in the Porter Hall A-level hallway, and a small-battery recycling container is also available near the graduate mailbox area near the Porter Hall 118 lounge.

CEE Environmental Engineering Laboratories

Organization

CEE Labs for research or in conjunction with their teaching duties are advised of the following:

1. The faculty strongly encourages experimental research and laboratory teaching, and will provide as much assistance as possible to enhance these activities.
2. Above all else, the physical safety of those working in the labs must concern all of us. Laboratory safety guidance is provided by the university [Environmental Health and Safety](#) (EH&S) Office, but is the responsibility of each laboratory worker and supervising faculty member. All students are required to take the laboratory safety and hazardous waste management training course before working in the CEE Environmental Engineering Laboratories. This is an online training course

offered by EH&S. Prior to working in the laboratories students need to contact [Ron Ripper](#), Director of Laboratories / Facilities who will inform them of the requirements to work in the labs. Suggestions related to better safety precautions are always welcome. If anyone is injured at any time, Campus Security (412---268---2323) should be called immediately so that medical help can be obtained without delay.

3. All laboratory activity must be authorized (before it is initiated) by the responsible faculty or staff member. In addition to monitoring in a general way all work that is conducted in the labs, the following faculty and staff have specific areas of responsibility and supervision:

Environmental Engineering and Science Laboratories (second floor):

- Dave Dzombak
- Kelvin Gregory
- Greg Lowry
- [Ron Ripper](#), Facilities & Lab Director
- Jeanne VanBriesen

Physical Testing Equipment and general administration of the entire CEE laboratory area, including the Geo-environmental Laboratory, and the Concrete Lab in the sub-basement:

- Sarah Christian
 - Kelvin Gregory
 - Jim Thompson
4. All purchases of equipment or supplies must be approved by the supervising faculty and the [Director of Finance and Administration](#). Cornelia Moore is available to assist with purchasing of equipment and supplies. Before initiating a purchase, talk to Ron Ripper, the Facilities & [Lab Director](#), your advisor, or [Cornelia Moore](#) for instruction on purchasing procedures.

Laboratory Safety Program

CEE maintains a high level of safety awareness in the laboratory. The department follows these procedures and rules:

1. **SAFETY EQUIPMENT:** The CEE laboratories are routinely inspected for adequacy of safety equipment, i.e., exit signs, fire extinguishers, first aid kits, etc. The laboratory safety and shop training classes instruct in the use of safety equipment.
2. **SAFETY OF THE PHYSICAL PLANT:** The laboratory facilities are inspected periodically by department staff, Environmental Health and Safety (EHS), and Facilities Management Services (FMS) to ensure building safety.
3. **OBSERVANCE OF PROMULGATED SAFETY INSTRUCTIONS:** The Carnegie Mellon Environmental Health and Safety (EHS) Office, working in conjunction with the Laboratory Safety Committee has established safety guidelines and recommended practices which the Department follows. Please

access the Carnegie Mellon Environmental Health and Safety web page at <http://www.cmu.edu/ehs/> for these guidelines, as well as additional information.

4. RADIATION SAFETY: Faculty, staff and students working with any equipment containing sealed radioactive sources must complete the radiation safety instruction course conducted by the University Radiation Safety Office within E&HS.
5. CHEMICAL SAFETY AND CHEMICAL HYGIENE: All environmental engineering graduate students working in either the Environmental Engineering laboratories or the Air Quality Laboratory in Doherty Hall are required to read and understand the Carnegie Mellon Chemical Hygiene Plan and to complete a training course in laboratory safety that is offered monthly by Carnegie Mellon's Environmental Health and Safety (EHS) Office. Students working in the laboratory must take a lab safety refresher course every two years. Finally, all students are required to use the ChemTracker chemical inventory when receiving or disposing of chemicals.
6. BIOLOGICAL SAFETY: All environmental engineering students working in the Biosafety Level II laboratory (BP 207B) are required to complete biosafety training offered by Carnegie Mellon's Environmental Health and Safety (EHS) Office, in addition to the general lab safety training offered by EHS.
7. It is the responsibility of the faculty member in charge of the project to ensure that all participants have received the proper level of safety instruction. Additional information can be found at the Environmental Health & Safety website - <http://www.cmu.edu/ehs/>.

Laboratory Access

Students should not work in any laboratory alone; however, there are times when this is not always possible. You may work alone in the laboratory if the activity is approved by the PI and a "Permission to Work Alone" form is completed and submitted to the laboratory manager.

The doors to the Environmental Laboratory are to remain locked during all hours. If you are working in this area, you can have swipe card access added to your ID card. Entry to the environmental engineering laboratory spaces is not permitted without lab safety training or unless accompanied by someone who has completed the EHS lab safety course.

To work in the Environmental Engineering Laboratories, you must complete the EHS laboratory safety course prior to beginning work.

If a project requires after-hours or weekend work and involves a particularly hazardous substance as defined by CMU EH&S, or a hazardous procedure, a [Particularly Hazardous Substance Form](#) must be completed and signed by the student and their PI and submitted to Ron Ripper.

Undergraduate laboratory experiments affiliated with course work must be conducted during the hours of 8:30 am to 5:00 p.m., Monday through Friday. If an experiment exceeds these time constraints, the faculty member or TA in charge must be present to supervise the laboratory activity. No undergraduate students may work in the laboratory alone.

Card access for the laboratories is arranged after approval from the PI or the CEE Facilities and Lab Director, Ron Ripper.

Laboratory Security and Use Policy

The entire laboratory facility is available for the academic purposes of the Civil and Environmental Engineering Department. This privilege is not extended to personal and business uses, except by formal arrangement with the Department to include compensation for the expenses of such use.

Tools are not to leave the laboratory facility. Any exceptions to this policy must be approved and recorded in writing by the [CEE Facilities and Lab Director, Ron Ripper](#). Theft is prosecuted to the fullest extent of internal and external means.

Each student working in the laboratory is responsible for cleaning up his or her work area routinely and thoroughly upon completion of work. All tools, chemicals, and equipment should be returned to proper storage locations. Waste materials should be properly marked and disposed.

Graduating students who have conducted work in the environmental engineering laboratories are required to complete a graduate student closeout procedures form and have it signed by their advisor or the CEE Lab Director prior to departure from the laboratory. This form is available from Ron Ripper.

Hazardous Waste Management

Hazardous waste generated in the CEE laboratories must be managed in accordance with federal and university regulations. These regulations are described in the EHS laboratory safety training that is required of all laboratory workers and faculty before initiating work in the labs. Hazardous wastes must be properly labeled, stored only in designated hazardous waste storage areas in the Environmental Engineering Laboratories, and disposed only by the university hazardous waste management contractors.

Biological waste generated in the BSL II laboratory must be managed in accordance with U.S. Centers for Disease Control (CDC) guidelines and university regulations. Identified bio-waste containers must be used for all such waste. Sharps must be disposed of uncapped in designated sharps containers.

Emergency Procedures

Medical Emergencies

Emergency transportation can be provided by calling [University Police](#) (24 hours/day) at (412) 268-2323, or campus ext. 82323.

In the event of an emergency, students are directed to go to Presbyterian University Hospital Emergency Room, entrance on DeSoto Street, call: (412) 647-3333. Faculty and staff are directed to Shadyside Hospital for work-related injuries. Both the [Director of Graduate Programs](#) and the [Director of Finance and Administration](#) should be notified of all medical emergencies as soon as appropriate.

Fire Emergencies

Students are encouraged to be familiar with the closest fire extinguisher and the two closest exit routes from their office.

Suspicion of fire should be reported to Carnegie Mellon Security (24 hours/day) at (412) 268-2323 or campus ext. 82323. In the event of a fire emergency, pull fire alarm in your building, lock doors and immediately leave the building. In the case of a fire alarm, lock the doors and **evacuate the building immediately**.

Fire officials and police respond to all fire alarms and check department spaces. Individuals who do not leave the building immediately upon hearing these alarms may be fined by university and public safety officials.

Please familiarize yourself with the locations and operating instructions of the fire extinguishers throughout the department.

Evacuation

Please follow these procedures should you hear the sound of the building fire alarm:

- Remain Calm
- Evacuate the building immediately. Never ignore an emergency alarm
- Take your coat, keys, medications, etc., in the event that you are not able to get back into the building quickly
- Do not stop once outside the building. Move away from the door and proceed to your designated assembly area. Remain there for further instructions
- Do not re-enter the building when the alarm shuts off. You will be told when it is safe to return.

Other Emergencies

Suspicion of water leak, gas leak, or any other possible emergency should be immediately reported to Carnegie Mellon Police (24 hours/day) at (412) 268-2323 or campus ext. 82323.

Resources for Exceptional or Challenging Situations

Graduate Student Appeals and Grievances

Personal or academic concerns can interfere significantly with the ability to make timely progress in research or program requirements. These might be due to:

- Health, family or financial challenges
- Situations such as difficulty in communications with advisor, particularly when those difficulties may lead to considering changing advisors or leaving the program

- Conflict with other group members that is difficult to resolve within the group
- Issues related to diversity or the departmental climate for those in groups who are historically underrepresented in science, or If you have concerns about your academic progress, advisor, or overall experience, you are encouraged to seek advice from the following:
 - Academic Advisor
 - Doctoral Committee Members
 - David Vey, Director of Graduate Programs
 - [Cathy Schaefer](#), Director of Finance and Administration
 - [David A. Dzombak](#), Department Head
 - CEE Graduate Student Advisory Committee
 - CEE Graduate Student Assembly Representative
 - [Shelley Anna](#), Associate Dean of College of Engineering for Faculty and Graduate Affairs
 - [Suzanne Laurich-McIntyre](#), Assistant Vice Provost For Graduate Education - Ombudsman

Generally, graduate students are expected to seek informal resolution of all concerns within the department as outlined above before invoking formal processes. When an informal resolution cannot be reached, however, a graduate student who seeks further review of the matter is to follow the formal procedures outlined on the [Graduate Education Resource](#) page. These appeal and grievance procedures shall apply to students in all graduate programs of the University. As noted above, students may confer with the graduate student ombudsman, Suzie Laurich-McIntyre, slaurichmcintyre@cmu.edu, on issues of process or other concerns as they navigate conflicts.

Additional resources for graduate students with personal or professional concerns:

- [Carnegie Mellon Engineering Resolution of Grievances](#)
- [The University Counseling and Student Development Center](#)
- [The Carnegie Mellon Women's Center](#)

Appendix A

2019-2020

Highlighted University Resources for Graduate Students and The WORD, Student Handbook

Interim Associate Dean of Graduate and Faculty Affairs, College of Engineering

Shelley Anna

[www://https://engineering.cmu.edu/](https://engineering.cmu.edu/)

Key Offices for Graduate Student Support

Graduate Education Office

www.cmu.edu/graduate; grad-ed@cmu.edu

The Graduate Education Office provides central support for all Master's and Doctoral students with a focus on their academic experience at Carnegie Mellon. Our goals are to support, advise and guide individual graduate students as they work to complete their degrees and to provide resources which will enhance their professional development experience.

Resources offered through the Graduate Education Office include- but are not limited to:

- Website with university resources, contact information for CMU programs and services, calendar of events related to graduate students
- Bi-monthly email to all graduate students with information on activities, resources and opportunities
- Professional Development Seminars and Workshops
- GSA/Provost Conference Funding Grants
- GSA/Provost Small Research Grants (GuSH)
- Consultations on all issues related to the graduate student experience

The Graduate Education Office is directed by Suzie Laurich-McIntyre, Ph.D., Assistant Vice Provost for Graduate Education, who offers personalized consultations with graduate students to support their

academic success, connects them with relevant resources, and clarifies university level policies.

The Graduate Education Office also works with the colleges and departments by informing and assisting in forming policy and procedures relevant to graduate students and working with departments on issues related to graduate students. Additionally we partner with many other offices and organizations, such as the Graduate Student Assembly, to support our graduate students' advancement.

Office of the Dean of Students

<https://www.cmu.edu/student-affairs/dean>

The Office of the Dean of Students provides central leadership of the metacurricular experience at Carnegie Mellon including the coordination of student support. Vice President of Student Affairs and Dean of Students Gina Casalegno leads the division of student affairs which includes the following offices and departments (not an exhaustive list):

- Athletics, Physical Education and Recreation
- Career and Professional Development Center (CPDC)
- Center for Student Diversity and Inclusion
- Cohon University Center
- Counseling & Psychological Services (CaPS)
- Dining Services
- Office of Community Standards and Integrity (OCSI)
- Office of Student Leadership, Involvement, and Civic Engagement (SLICE)
- University Health Services (UHS)
- Wellness Initiatives

Graduate students will find the enrollment information for Domestic Partner Registration and Maternity Accommodations in the Office of the Dean of Students or on their website. This Office also manages the Emergency Student Loan (ESLs) process. Emergency Student Loans are made available through generous gifts of alumni and friends of the university. The Emergency Student Loan is an interest-free, emergency-based loan repayable to the university within 30 days. Loans are available to enrolled students for academic supplies, medication, food or other expenses not able to be met due to unforeseeable circumstances.

The Office of Community Standards and Integrity provides consultation, support, resources and follow-up on questions and issues related to Academic Integrity: <https://www.cmu.edu/student-affairs/ocsi/students/index.html>

College Liaisons are senior members of the Division of Student Affairs who work with departments and colleges addressing student concerns across a wide range of issues. College Liaisons are identified on the student SIO page in the Important Contacts list.

Center for Student Diversity & Inclusion

<https://www.cmu.edu/student-diversity/>

Diversity and inclusion have a singular place among the values of Carnegie Mellon University. The Center for Student Diversity & Inclusion actively cultivates a strong, diverse and inclusive community capable of living out these values and advancing research, creativity, learning and development that changes the world.

The Center offers resources to enhance an inclusive and transformative student experience in dimensions such as access, success, campus climate and intergroup dialogue. Additionally, the Center supports and connects historically underrepresented students and those who are first in their family to attend college in a setting where students' differences and talents are appreciated and reinforced, both at the graduate and undergraduate level. Initiatives coordinated by the Center include, but are not limited to:

- First generation/first in family to attend college programs
- LGBTQ+ Initiatives
- Race and ethnically-focused programs, including Inter-University Graduate Students of Color Series (SOC) and PhD SOC Network
- Women's empowerment programs, including Graduate Women's Gatherings (GWGs)
- Transgender and non-binary student programs

Assistance for Individuals with Disabilities

<http://www.cmu.edu/education-office/disability-resources/>

The Office of Disability Resources at Carnegie Mellon University has a continued mission to provide physical and programmatic campus access to all events and information within the Carnegie Mellon community. We work to ensure that qualified individuals receive reasonable accommodations as guaranteed by the Americans with Disabilities Act (ADA) and Sections 503 and 504 of the Rehabilitation Act of 1973. Students who would like to receive accommodations can begin the process through [Disability Resources secure online portal](#) or email access@andrew.cmu.edu to begin the interactive accommodation process.

Students with disabilities are encouraged to self-identify with the Office of Disability Resources and request needed accommodations. Any questions about the process can be directed to Catherine Getchell,

412-268-6121, getchell@cmu.edu.

Eberly Center for Teaching Excellence & Educational Innovation

www.cmu.edu/teaching

We offer a wide variety of confidential, consultation services and professional development programs to support graduate students as teaching assistants or instructors of record during their time at Carnegie Mellon University and as future faculty members at other institutions. Regardless of one's current or future teaching context and duties, our goal is to disseminate evidence-based teaching strategies in ways that are accessible and actionable. Programs and services include campus-wide Graduate Student Instructor Orientation events and our Future Faculty Program, both of which are designed to help participants be effective and efficient in their teaching roles. The Eberly Center also assists departments in creating and conducting customized programs to meet the specific needs of their graduate student instructors. Specific information about Eberly Center support for graduate students is found at www.cmu.edu/teaching/graduatestudentsupport/index.html.

Graduate Student Assembly

www.cmu.edu/stugov/gsa/index.html

The Graduate Student Assembly (GSA) is the branch of Carnegie Mellon Student Government that represents, and advocates for the diverse interests of all graduate students at CMU. GSA is composed of representatives from the different graduate programs and departments who want to improve the graduate student experience at the different levels of the university. GSA is funded by the Student Activities Fee from all graduate students. GSA passes legislation, allocates student activities funding, advocates for legislative action locally and in Washington D.C. on behalf of graduate student issues and needs, and otherwise acts on behalf of all graduate student interests. Our recent accomplishments are a testament to GSA making a difference, and steps to implementing the vision laid out by the strategic plan. <https://www.cmu.edu/stugov/gsa/About-the-GSA/Strategic-Plan.html>.

GSA offers an expanding suite of social programming on and off-campus to bring graduate students from different departments together and build a sense of community. GSA is the host of the Graduate Student Lounge on the 3rd floor of the Cohon University Center- a great place to study or meet up with friends. GSA also maintains a website of graduate student resources on and off-campus. Through GSA's continued funding for professional development and research conferences, the GSA/Provost Conference Funding Program and GSA/Provost GuSH Research Grants are able to run, as managed by the Graduate Education Office. As we move forward, GSA will continue to rely on your feedback to improve the graduate student experience at CMU. Feel free to contact us at <gsa@cmu.edu> to get involved, stop by our office in the Cohon University Center Room 304 or become a representative for your department.

Intercultural Communication Center (ICC)

www.cmu.edu/icc/

The Intercultural Communication Center (ICC) is a support service for nonnative English speakers, both newly arrived international students as well as students who attended high school and/or undergraduate programs in the US. The ICC offers seminars, workshops, and 1-1 consultations that develop the language and cross-cultural skills needed to succeed in academic programs at Carnegie Mellon University. The ICC provides International Teaching Assistant (ITA) testing, a required test indicating a nonnative speaking TA has the language proficiency required to work with students in classes, labs or individual meetings. The ICC also supports International Teaching Assistants in developing fluency and cultural understanding to teach successfully at Carnegie Mellon University.

Office of International Education (OIE)

<http://www.cmu.edu/oie/>

Carnegie Mellon hosts international graduate and undergraduate students who come from more than 90 countries. The Office of International Education (OIE) is the liaison to the University for all non-immigrant students and scholars. OIE provides many services including: advising on personal, immigration, academic, social and acculturation issues; presenting programs of interest such as international career workshops, tax workshops, and cross-cultural and immigration workshops; maintaining a resource library that includes information on cultural adjustment, international education and statistics on international students in the United States; posting pertinent information to students through email and the OIE website, and conducting orientation programs.

Veterans and Military Community

<http://www.cmu.edu/veterans/>

Military veterans are a vital part of the Carnegie Mellon University community. Graduate students can find information on applying for veteran education benefits, campus services, veteran's groups at CMU, non-educational resources and international military service information through the Veterans and Military Community website. There are also links and connections to veteran resource in the Pittsburgh community. The ROTC and Veteran Affairs Coordinator can be reached at uro-vaedbenefits@andrew.cmu.edu or 412-268-8747.

Carnegie Mellon Ethics Hotline

<https://www.cmu.edu/hr/resources/ethics-hotline.html>

The health, safety and well-being of the university community are top priorities at Carnegie Mellon University. CMU provides a hotline that all members of the university community should use to confidentially report suspected unethical activity relating to areas below:

- Academic and Student Life
- Bias Reporting
- Environmental Health and Safety
- Financial Matters
- High-Risk Incident
- Human Resource Related
- Information Systems
- Research
- Threat of Business Interruption
- Threat of Violence or Physical Harm
- Title IX

Students, faculty and staff can anonymously file a report by calling 877-700-7050 or visiting www.reportit.net (user name: tartans; password: plaid). All submissions are reported to appropriate university personnel.

The hotline is NOT an emergency service. For emergencies, call University Police at 412-268-2323.

Policy Against Retaliation

It is the policy of Carnegie Mellon University to protect from retaliation any individual who makes a good faith report of a suspected violation of any applicable law or regulation, university Policy or procedure, any contractual obligation of the university, and any report made pursuant to the Carnegie Mellon University Code of Business Ethics and Conduct.

Additional details regarding the Policy Against Retaliation are available at

<https://www.cmu.edu/policies/administrative-and-governance/whistleblower.html>

Key Offices for Academic & Research Support

Academic Coaching/Consulting - The Office of Academic Development

<https://www.cmu.edu/acadev/coaching/index-grad.html>

The Academic Coaching Program is a student assistance program that supports graduate students in the development and/or improvement of skills, strategies, and processes that are necessary for a productive

and successful experience at CMU and beyond. Support for graduate students comes in two forms: Individualized Sessions and Group Workshops. Individualized Sessions are the primary focus and can be best understood as working with a personal consultant. Academic Coaches/Consultants meet with students regularly, in a one-on-one capacity, in order to assess a student's needs and implement strategies to satisfy those needs, while providing a variety of support throughout the process. Areas of focus include, but are not limited to:

- Self-Management
 - Developing and/or adjusting your organizational system
 - Managing time and combating stress and procrastination
 - Prioritization and decision making
 - Advancing mindset, self-efficacy, and belongingness
 - Balancing coursework, research, and professional development opportunities
- Study Skills
 - Identifying and modifying your learning process
 - Metacognition
 - Test-taking and note-taking strategies
 - Content comprehension and retention

Computing and Information Resources

www.cmu.edu/computing

Computing Services maintains and supports computing resources for the campus community, including the campus wired and wireless networks, printing, computer labs, file storage, email and software catalog. As members of this community, we are all responsible for the security of these shared resources. Be sure to review the Safe Computing (<https://www.cmu.edu/computing/safe/>) section and the University Computing Policy (<https://www.cmu.edu/policies/information-technology/computing.html>)

Visit the Computing Services website (<https://www.cmu.edu/computing/>) to learn more. For assistance the Computing Services Help Center is available at 412-268-4357 (HELP) or it-help@cmu.edu.

Global Communication Center

<https://www.cmu.edu/gcc>

The Global Communication Center offers free one-on-one tutoring and workshops for native and non-native English speakers from any academic discipline. Our tutors are trained to provide research-backed communication strategies on written, oral, and visual communication projects, in the sciences and the humanities. We can help you improve the effectiveness of your communication in any academic project, including the following:

- Technical reports
- Dissertations
- Research posters
- Oral presentations
- Journal articles
- Grant proposals
- Class essays

You can visit us at any stage in the project—whether you are just getting started and need to talk through ideas or are putting the finishing touches on a final draft.

We also offer workshops on topics including crafting professional emails, team communication, PowerPoint slide design, data visualization, and job application materials.

For more information, to view our resources, or to schedule an appointment, visit our website.

Research at CMU

www.cmu.edu/research/index.shtml

The primary purpose of research at the university is the advancement of knowledge in all fields in which the university is active. Research is regarded as one of the university's major contributions to society and as an essential element in education, particularly at the graduate level and in faculty development.

Research activities are governed by several university policies. Guidance and more general information is found by visiting the Research at Carnegie Mellon website.

Office of Research Integrity & Compliance

www.cmu.edu/research-compliance/index.html

The Office of Research Integrity & Compliance (ORIC) is designed to support research at Carnegie Mellon University. The staff work with researchers to ensure research is conducted with integrity and in accordance with federal and Pennsylvania regulation. ORIC assists researchers with human subject research, conflicts of interest, responsible conduct of research, export controls, and institutional animal care & use. ORIC also consults on, advises about and handles allegations of research misconduct.

Key Offices for Health, Wellness & Safety

Counseling & Psychological Services

<https://www.cmu.edu/counseling/>

Counseling & Psychological Services (CaPS) affords the opportunity for students to talk privately about issues that are significant for them in a safe, confidential setting. Students sometimes feel uncertain about why they are feeling upset and perhaps confused about how to deal with those feelings. An initial consultation with a CaPS therapist will clarify options and provide a recommendation to the appropriate mental health resource at Carnegie Mellon or the larger Pittsburgh community. CaPS also provides workshops and group sessions specifically for graduate students on campus. CaPS services are provided at no cost. Appointments can be made in person or by telephone, 412-268-2922.

Health Services

www.cmu.edu/HealthServices/

University Health Services (UHS) is staffed by physicians, advanced practice clinicians and registered nurses who provide general medical care, allergy injections, first aid, gynecological care and contraception as well as on-site pharmaceuticals. The CMU Student Insurance Plan covers most visit fees to see the physicians and advanced practice clinicians & nurse visits. Fees for prescription medications, laboratory tests, diagnostic procedures and referral to the emergency room or specialists are the student's responsibility and students should review the UHS website and their insurance plan for detailed information about the university health insurance requirement and fees.

UHS also has a registered dietician and health promotion specialists on staff to assist students in addressing nutrition, drug and alcohol and other healthy lifestyle issues. In addition to providing direct health care, UHS administers the Student Health Insurance Program. The Student Health Insurance plan offers a high level of coverage in a wide network of health care providers and hospitals. Appointments can be made by visiting UHS's website, walk-in, or by telephone, 412-268-2157.

Campus Wellness

<https://www.cmu.edu/wellness/>

At the university, we believe our individual and collective well-being is rooted in healthy connections to each other and to campus resources. The university provides a wide variety of wellness, mindfulness and connectedness initiatives and resources designed to help students thrive inside and outside the classroom. The BeWell@CMU e-newsletter seeks to be a comprehensive resource for CMU regarding all wellness-inspired events, announcements and professional and personal development opportunities. Sign up for the Be Well monthly newsletter via bit.ly/BeWellatCMU or by contacting the Program Director for Student Affairs Wellness Initiatives, at alusk@andrew.cmu.edu.

Religious and Spiritual Life Initiatives (RSLI)

www.cmu.edu/student-affairs/spirituality

Carnegie Mellon is committed to the holistic growth of our students, including creating opportunities for spiritual and religious practice and exploration. We have relationships with local houses of worship from various traditions and many of these groups are members of CMU's Council of Religious Advisors. We also offer programs and initiatives that cross traditional religious boundaries in order to increase knowledge of and appreciation for the full diversity of the worldview traditions. Our RSLI staff are here to support students across the spectrum of religious and spiritual practice and would be more than happy to help you make a connection into a community of faith during your time at CMU.

University Police

<http://www.cmu.edu/police/>

412-268-2323 (emergency only), 412-268-6232 (non-emergency)

The University Police Department is located at 300 South Craig Street (entrance is on Filmore Street). The department's services include police patrols and call response, criminal investigations, fixed officer and foot officer patrols, event security, and crime prevention and education programming as well as bicycle registration. Visit the department's website for additional information about the staff, emergency phone locations, crime prevention, lost and found, finger print services, and annual statistic reports.

Carnegie Mellon University publishes an annual campus security and fire safety report describing the university's security, alcohol and drug, sexual assault, and fire safety policies and containing statistics about the number and type of crimes committed on the campus and the number and cause of fires in campus residence facilities during the preceding three years. Graduate students can obtain a copy by contacting the University Police Department at 412-268-6232. The annual security and fire safety report is

also available online at
<https://www.cmu.edu/police/annualreports/>.

Shuttle and Escort Services

Parking and Transportation coordinates the Shuttle Service and Escort Service provided for CMU students, faculty, and community. The [Shuttle & Escort website](#) has full information about these services, stops, routes, tracking and schedules.

The WORD

<http://www.cmu.edu/student-affairs/theword//>

The WORD is Carnegie Mellon University's student on-line handbook and is considered a supplement to the department (and sometimes college) handbook. The WORD contains campus resources and opportunities, academic policy information and resources, community standards information and resources. It is designed to provide all students with the tools, guidance, and insights to help you achieve your full potential as a member of the Carnegie Mellon community. Information about the following is included in The WORD (not an exhaustive list) and graduate students are encouraged to bookmark this site and refer to it often. University policies can also be found in full text at:

<http://www.cmu.edu/policies/>.

Carnegie Mellon Vision, Mission
Statement of Assurance
Carnegie Code

Academic Standards, Policies and Procedures
Educational Goals
Academic and Individual Freedom
Statement on Academic Integrity Standards for Academic & Creative Life
Assistance for Individuals with Disabilities
Master's Student Statute of Limitations
Conduct of Classes
Copyright Policy
Cross-college & University Registration
Doctoral Student Status Policy
Evaluation & Certification of English Fluency for Instructors
Final Exams for Graduate Courses

Grading Policies
Intellectual Property Policy
Privacy Rights of Students
Student's Rights

Research
Human Subjects in Research
Office of Research Integrity & Compliance
Office of Sponsored Programs
Policy for Handling Alleged Misconduct of Research
Policy on Restricted Research

Tax Status of Graduate Student Awards

Campus Resources & Opportunities

Alumni Relations
Assistance for Individuals with Disabilities Athletics, Physical Fitness & Recreation Carnegie Mellon ID
Cards and Services
Cohon University Center
Copying, Printing & Mailing
Division of Student Affairs
Domestic Partner Registration Emergency Student Loan Program Gender Programs & Resources
Health Services
Dining Services
The HUB Student Services Center
ID Card Services
Leonard Gelfand Center
LGBTQ Resources
Multicultural and Diversity Initiatives Opportunities for Involvement
Parking and Transportation Services
Shuttle and Escort Services
Spiritual Development
University Police
Student Activities
University Stores

Community Standards, Policies and Procedures
Alcohol and Drugs Policy

AIDS Policy
Bicycle/Wheeled Transportation Policy Damage to Carnegie Mellon Property Deadly Weapons
Discriminatory Harassment
Disorderly Conduct
Equal Opportunity/Affirmative Action Policy
Freedom of Expression Policy Health Insurance Policy Immunization Policy
Missing Student Protocol Non-Discrimination Policy On-Campus Emergencies Pets
Political Activities
Recycling Policy
Riotous and Disorderly Behavior
Safety Hazards
Scheduling and Use of University Facilities
Sexual Harassment and Sexual Assault Policy
Smoking Policy
Student Accounts Receivable and Collection Policy and Procedures
Student Activities Fee
Student Enterprises
Workplace Threats and Violence Policy

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