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 Graduate Student Handbook. 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, Maxine Leffard or I shall be happy to answer them.

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

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. The Carnegie Mellon Code was written to address these expectations, and can be found online at: http://www.cmu.edu/student-affairs/theword/code.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.

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:

- Academic Integrity Website: www.cmu.edu/academic-integrity
- University Policies Website: www.cmu.edu/policies/
- College of Engineering Policies: http://engineering.cmu.edu/current_students/graduates/policies.html
- Graduate Education Website: http://www.cmu.edu/graduate/policies/index.html
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 Carnegie Mellon Student Handbook. 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 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

Grandfather Policy

When policies are changed it is because the department believes the new rules offer an improvement; any such changes will be discussed at a meeting with the graduate students. However, if you are currently enrolled and your degree program is affected by a change in policy, you may choose to be governed by the policy that was in-place at the time of your matriculation.
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/about/visit/campus-map.shtml](http://www.cmu.edu/about/visit/campus-map.shtml)
- Department floor plan: [http://www.cmu.edu/cee/resources/index.html](http://www.cmu.edu/cee/resources/index.html)
- Information about Pittsburgh and the surrounding areas: [http://www.pittsburgh.net](http://www.pittsburgh.net)

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 advisors. Advisors are assigned during the semester prior to your enrollment, matching your interests with that of your advisor. Faculty Advisors are charged with guiding the education and monitoring your process through the program. This personal student-advisor relationship ensures that you receive the necessary faculty mentoring.

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 Department Head. PhD students are also strongly encouraged to seek advice from the members of their Doctoral Committee.
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 with a maximum of 54 units. Part-time students are required to register for a minimum of 12 units.

Graduate Student Seminar

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

Attendance is required as follows:

- CEE Department Seminars – MANDATORY for all graduate students
- CEE Professional Development Seminars - MANDATORY for all graduate students
- Research Group Seminars – Mandatory for PhD students and research MS students

To receive attendance credit for the Department and Professional Development Graduate Seminar, you must attend a minimum of five CEE seminars in the fall semester and four CEE seminars in the spring semester.

If you are a PhD or Research MS students, 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 one of the following forms:

- Full Semester Waiver Request form
- Single Session Waiver Request form
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 four 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.

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. If you have entered the program with non-engineering undergraduate degree, you can pursue the standard MS or PhD degree in Civil and Environmental Engineering, or a similar degree in Environmental Management and Science.

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Semester</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>2 Semesters</td>
<td>Calculus</td>
</tr>
<tr>
<td>1 Semester</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>2 Semesters</td>
<td>Physics</td>
</tr>
<tr>
<td>1 Semester</td>
<td>Biology (or other science)</td>
</tr>
<tr>
<td>1 Semester</td>
<td>Probability and Statistics; or 1 semester Linear Algebra</td>
</tr>
<tr>
<td>1 Semester</td>
<td>Computer Programming, Applications or Tools</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-231</td>
<td>Solid Mechanics</td>
<td>9 Units</td>
<td>First Spring Semester</td>
</tr>
<tr>
<td>12-335</td>
<td>Soil Mechanics</td>
<td>9 Units</td>
<td>Second Fall Semester</td>
</tr>
<tr>
<td>12-355</td>
<td>Fluid Mechanics</td>
<td>9 Units</td>
<td>First Fall Semester</td>
</tr>
<tr>
<td>12-411</td>
<td>Project Management Construction</td>
<td>9 Units</td>
<td>First Fall Semester</td>
</tr>
<tr>
<td>12-421</td>
<td>Engineering Economics</td>
<td>6 Units</td>
<td>First Fall Semester</td>
</tr>
</tbody>
</table>
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

Consult with your academic advisor should you be interested petitioning for one of these special non-engineering degree titles. Additional coursework may be necessary to obtain the necessary background for these degrees.
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 that 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.

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.
- Up to 18 units of upper level undergraduate courses (typically defined as courses 300 level and above) may be counted towards the 96 unit requirement with the approval of the academic advisor. Computer Science courses at 15-112 and above may be counted as undergraduate units. Other lower level undergraduate courses may be counted toward the MS degree in rare exceptions, with the express and documented permission of the academic advisor.
- 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.

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.

Sixteen-Month Program Option

If you are enrolled in the sixteen-month MS program, you must be registered for a minimum of 36 units each academic semester. Students in the sixteen-month program that 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. Students in the nine-month program may not switch to the sixteen-month program without extenuating circumstances such as documented illness.
Master of Science 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.

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 strongly 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.

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.

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. International students seeking part-time status may be limited due to visa restrictions.

Integrated BS/MS Program

As an undergraduate you 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 to the Director of Graduate Programs 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. You are expected to meet with your graduate advisors regularly 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.

**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 Students and Faculty 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 Students and Faculty 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.
PhD 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 at least 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 for the most part 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 ability and imagination.

While it is recognized that it is no longer possible to require each student to have a broad knowledge in every area of civil engineering due to the extreme diversity of this 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 his or her given field to new situations, including problems that may be open-ended or not well-defined.

To meet the requirements for a PhD, candidates must successfully complete the following:

- The Qualifying Examination:
  - Comprehensive Candidacy Examination
  - Thesis Proposal Examination
- Dissertation Research and Preparation
- Dissertation Defense
- Thesis Submission

The Qualifying Examination

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

- Comprehensive Candidacy Examination
- Thesis Proposal Examination

Candidates must satisfy the requirements for both parts to pass the Qualifying Examination. Any departure from the stated requirements needs special approval from the Department of Civil and Environmental Engineering faculty. If departing from stated requirements, 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
- Make recommendations on the examination results to department faculty
PhD candidates will also 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 and the faculty of the Department of Civil and Environmental Engineering.

Comprehensive Candidacy Examination

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

The Candidacy Examination consists of two parts:

- A **written examination** appropriate to the academic background and research focus area of the students is developed by your Candidacy Committee. The committee is responsible for preparing the examination questions and evaluating the results.
- An **oral examination** administered by the Candidacy 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.

Examination Committee

The Candidacy 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

You and your advisor should mutually agree upon members of the examination committee. It is important to note that the Candidacy Examination committee members are not necessarily the same as members of the your doctoral committee.

Examination Time Frame

Candidacy Examinations 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. The Oral Examination will take place following review of the written parts of the Candidacy Examination.

You should plan to take the Candidacy Examination no later than the first scheduled examination following one semester of full-time residence in a PhD program at Carnegie Mellon.

The oral examination should be scheduled within one month after the written examination. In the interim period, students may not communicate or discuss with others about 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 prepared to defend their responses.
Examination Grading and Evaluation

The grading and evaluation of the Candidacy Exam will not be announced until the entire faculty of the Department of Civil and Environmental Engineering has reviewed examination results. Possible examination outcomes are as follows:

- **Unconditional Pass**: a student performs satisfactorily in both written and oral portions of the qualifier exam.
- **Conditional Pass**: a student needs to perform a set of conditions before s/he can be considered as being deemed to pass the qualifier 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**: when the committee cannot agree/decide on whether a student has demonstrated to be qualified to be a PhD student. In these cases, the student can re-take a portion of, or the entire 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**: when a student did not perform satisfactorily in the exam. When a student fails, there is no option for that student to retake the exam.

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

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

Once the examination is complete, the Candidacy Examination Committee will fill out the grade card for 12-795, Candidacy Exam for the Degree of Doctor of Philosophy. Once you have successfully completed this examination, you will be entered into All But Dissertation (ABD) in residence status. Students in ABD must complete all requirements for the PhD degree within a maximum of six years from passage of the qualifying examination.

Students receiving financial support may receive an increase to their stipend upon successful passage of the Candidacy Exam with the approval of the faculty. This policy is reviewed annually, and not guaranteed.

**Thesis Proposal Examination**

The Thesis Proposal Examination is an oral examination designed to evaluate your competence and ability to undertake work in the area of your proposed dissertation.

**Time Frame**

You should take your Thesis Proposal Examination between twelve and twenty-four months following the successful completion of your Candidacy Examination. You must submit a written thesis proposal to your Doctoral Committee prior to the examination.
In some circumstances, your advisors may recommend a slightly different timeline for this examination, and you should discuss this possibility with your individual advisor. It is the responsibility of your advisor to communicate any modifications of the examination schedule to the Graduate Program Administrator.

The Doctoral Committee

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

- Advising you 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 your principal thesis advisor. If you have concerns about your advising experience, you are encouraged to seek advice from their Doctoral Committee or the Department Head.

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 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

You and your advisor should mutually agree upon the composition of your committee. It is important to note that the Candidacy Examination committee members are not necessarily the same as members of your doctoral committee. This committee will make a pass/fail recommendation to the faculty of the Department of Civil and Environmental Engineering following the completion of the Qualifying Examination.

If you fail the examination, you may be granted an option to be re-examined on all or part of the examination material. Your Doctoral Committee will set the scheduling of this re-examination. The faculty's decision will be communicated to you following the Departmental review.

After Completion

At the successful completion of your proposal examination, the grade card for 12-796, Qualifying Examination for the Degree of Doctor of Philosophy, will be filled out by your Doctoral committee.

Please review the complete policy at Doctoral Student Status Policy for additional information.

Research and Dissertation Defense

After passing the qualifying examination, you will enter into full-time research and preparation of your dissertation in All But Dissertation (ABD) status. Your thesis may have, to varying degrees, an engineering science orientation toward the extension of fundamental knowledge or an engineering practice orientation toward the improvement of application of knowledge.
To complete the requirements of the PhD, your thesis must be reviewed by a faculty examining committee and defended in a public oral examination. A defense announcement must be posted publicly a minimum of two weeks prior to your scheduled defense date.

**After Completion**

At the completion of the PhD defense, your Doctoral Committee will fill out your grade card for 12-797, PhD Defense for the Degree of Doctor of Philosophy.

**Thesis Submission**

The final stage of completing the PhD degree requirement is submitting your Research Dissertation. Guidance on completing your dissertation including formatting instructions, form templates, and deadlines can be found at the CIT Thesis Dissertation Policies site.

Please follow the instructions at the links below:

- Online Dissertation Submission Procedures (follow the first three links under "Electronic Submission" for complete information)

**Required submissions to Maxine Leffard:**

- Dissertation Checklist (completed through the CMU Library website)
- ProQuest Publishing Agreement (completed the CMU Library website)
- Survey of Earned Document Completion Certificate
- Printed copies as follows:
  - 1 single or double sided copy for each advisor (committee members do not need a copy)
  - 1 single or double sided copy for CEE department
  - 1 (or more) single or double sided copy for student
- Dissertation PDF (on CD or USB drive)
- Binding fees for a copy for your Advisor(s) and yourself.

CEE will have your dissertation professionally bound. Your advisor(s) and the department will retain a bound copy and you will receive a bound copy for yourself. The department will pay the binding fee for the departmental copy, however you are responsible to pay for the binding of your copy, as well as the copy for your Advisor(s).

**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.

**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 strongly 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.

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. The candidate must pass the qualifying examination approved by both departments.

Part-Time PhD Students
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 INS regulations, all International students are required to maintain a minimum of 36 units per semester to retain their student status. This INS 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 must complete the requirements for the MS degree before beginning PhD studies. You will not need to apply to the PhD program upon completion of your MS 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:

1. One year of full-time residence at Carnegie Mellon
2. Intern PhD students may register for part-time status for the semesters not in residency. 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.
3. Satisfactory completion of a two-part examination (candidacy examination and thesis proposal examination)
4. 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.

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.

The College of Engineering and CMU rules 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: CIT Graduate Policies website.
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 ICC 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.
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 any problems with registration, please contact Maxine Leffard, the Director of Graduate Programs in Porter Hall 118N. Full-time students are required to register for a minimum of 36 units and a maximum of 54 units. Part-time students must register for a minimum of 12 units.

Summer Registration

If you are a full-time PhD student (36 units or more) during the spring semester, you will be registered summer reading and research units by the department. 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 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 Maxine Leffard, the Director of Graduate Programs if you are planning to register for academic research during the summer session.

Academic Probation for Poor Performance

At the end of each semester, after final grades have been posted, the academic performance of each student is reviewed. If your cumulative QPA is less than 3.0, or if you earned a QPA of less than 3.0 in the most recent full semester completed, you will be immediately placed on academic probation.

Academic probation includes the following additional conditions:

• Students on academic probation may have any scholarships and/or financial awards rescinded;
• Students on academic probation cannot be selected to receive awards;

Your academic probation will be automatically lifted during the next academic review if your semester and cumulative QPAs, at that time, are 3.0 or better.

If a CEE student has a core or cumulative QPA lower than 3.0 at the end of two consecutive full semesters, the student will be removed from the CEE program. The student 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 Associate Dean for Faculty and Graduate 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.

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 tenth day of classes, a course may be added up to and including the last day of classes with Dean’s approval. Please see Maxine Leffard 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. This deadline is two weeks after mid-semester grades are due. The deadline to drop a half-semester mini course is the last day of the fourth week of the mini course.

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. A graduate student can petition the department head to remove a “W” grade from their transcript if there are extenuating circumstances. See Maxine Leffard if you need to drop a course after the 10th day of classes.

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.

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. Audit units will count toward your unit maximum, but you will not receive academic credit, a pass/no pass or a letter grade.

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, department head, and the College of Engineering’s Associate Dean for Graduate and Faculty.

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.

Grading

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

• Project 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.

**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.

**Independent Study**

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.

**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.

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 approval prior to beginning the course. You will also need to include course description with the transfer credit request form. If your request is approved, you will also be required to present a transcripts proving completion of the course in order to finalize the transfer.

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.
Disciplinary Action of Matters of Cheating and Plagiarism

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 and College of Engineering policies 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 may be expelled from the University. 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. 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 exposted 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
Graduate 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 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.

<table>
<thead>
<tr>
<th>Academic Year Appointment</th>
<th>September 1 – May 31</th>
<th>Renewed after the academic records have been reviewed in the spring and, in some cases, at the end of the summer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split Appointment (One Semester)</td>
<td>Fall: September 1 – December 31; Spring: January 1 to May 31</td>
<td></td>
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<tr>
<td>Summer Appointment</td>
<td>1-3 months</td>
<td>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.</td>
</tr>
</tbody>
</table>

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 M5 project report or the completion of Part II of the Doctoral Qualifying Examination before September 1. Please discuss your progress with your faculty advisor periodically.

Work with your faculty advisor to ensure that you are meeting the obligations of your appointment and if you will be able to renew your appointment. Typically, the Department reviews all graduate appointments in the time period January through March 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 generally budget student financial assistance over the standard duration of the student’s tenure at Carnegie Mellon. However, if 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 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.
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 between April 1 – May 1 and need to be arranged between you, your advisor and the CEE Business Manager.

Payroll

Stipends are issued twice per month, in the middle and end of the month. The stipend payment calendar can be accessed at http://www.cmu.edu/cmuworks/payroll/index.html. December stipends are usually distributed a little earlier, due to the holiday season. The university has moved to a paperless payroll system and you can sign up to have your stipend electronically deposited into your bank account by signing up for direct deposit.

Check with Daniel Joyner, the CEE Financial Assistant if you are unclear about the distribution of stipends, or if you need to check on the status of a stipend.

Stipend Deductions

It is your responsibility to insure that proper tuition and fees are deducted from your stipend payment, and that the deductions are properly credited to your account. You are also responsible for health insurance premiums and fees. Up-to-date account information can be accessed through the Student Information Online link on the HUB webpage.

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 taxes. Statements to this effect are on file in the payroll office for each graduate student on an assistantship. Graduate Student Service Assistantships 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 local, state, and federal taxes is April 15. You can obtain tax forms in the mail, at the post office, or at the Carnegie Library. 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.
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 Carnegie Mellon Graduate Student Handbook 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.

University Holidays:

<table>
<thead>
<tr>
<th>New Year’s Day</th>
<th>Labor Day</th>
<th>Day before Christmas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Luther King Day</td>
<td>Thanksgiving Day</td>
<td>Christmas Day</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>Day after Thanksgiving</td>
<td>Day before New Year’s Day</td>
</tr>
<tr>
<td>Independence Day</td>
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</tr>
</tbody>
</table>

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.

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 “Graduate Student Personal Time Off Request Form” 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.

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 students 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.

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, or Vijayakumar Bhagavatula, CIT Associate Dean for Graduate Affairs, vk16@andrew.cmu.edu, 8-2478.
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 that you are TAing 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 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). 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

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. The Director of Graduate Programs will register you for 12-793 Graduate Teaching Assignment for each semester that you serve as a TA the second week of classes, once all TA appointments have been finalized. 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 will not be assigned as a TA to a course in which you are currently registered. 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.
Faculty Mentoring

Faculty will aim to provide a positive and meaningful 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 ensure that the TA responsibilities are distributed equally between TAs assigned to that class. Faculty should also monitor TA workloads to ensure 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.

Requirements for Non-Native 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](http://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](http://www.cmu.edu/policies/documents/EngFluency.html) 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](http://www.cmu.edu/icc).

TA Training

So that they are properly prepared, all graduate students with TA requirements are to register and attend course 12-790 "Teaching Workshop." This course is comprised of a four 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/](http://www.cmu.edu/teaching/eberlycenter/)
Civil and Environmental Engineering Service Assistantship

CEE departmental service assistantships are credited directly to the student account each semester. It is the responsibility of the assistantship recipient to assure that the balance of the student debt is settled by the published dates. Diplomas and transcripts will not be presented until your financial debt is settled. Tuition and fee payment arrangements are made directly through the Hub.

MS Service Project Requirement

We view community service in the Department as an integral and important aspect of your graduate education experience. CEE Masters service assistantship recipients are expected to complete an accumulated total of 50 hours of service in CEE during the course of the academic year. This service can include assisting a faculty member with a research project, assisting an instructor in a course, supporting the administration of our computing environment or other endeavors.

A complete list of possible activities will be provided at the beginning of the academic year. You will be required to submit a “project plan” form in early November outlining their project selection. A “final report” will be due in early April. Specific dates will be announced at the beginning of the fall semester.

Outside Fellowships and Scholarships

Fellowships look great on resumes! Be proactive in seeking out eligible fellowships and scholarships, even if you are currently supported on departmental, grant or research money.

Aside from the professional advantage, full or partial fellowships can help to defray the cost of the educational experience, provide a supplement to an existing research assistantship or simply ease the funding burden on the your research group and/or the department. Faculty and the director of Graduate Programs will make every effort to pass on fellowship and scholarship information as become available. However, it is your responsibility to be aware of appropriate funding sources. There are a number of places that you can find out about opportunities:

- Fellowship Resource Advising Center
- Department bboard at: CEE Fellowships
  <post+academic.ce.graduatefellowships@andrew.cmu.edu>

University Financial Aid

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: http://www.cmu.edu/finaid/graduate/index.html.

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.
**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. CPT is not available to PhD students since the PhD program does not have a degree requirement. Instead, PhD students wishing a Summer Internship would apply for pre-completion OPT.

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. 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.

Please review the Office of International Education CPT handout at: [http://www.studentaffairs.cmu.edu/oie/forstu/pdf/cpt.pdf](http://www.studentaffairs.cmu.edu/oie/forstu/pdf/cpt.pdf) for detailed information about this employment authorization option.
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 Maxine Leffard.

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

<table>
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<tr>
<th>Period</th>
<th>Application submit</th>
<th>Decision made no later than</th>
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</thead>
<tbody>
<tr>
<td>Fall Travel</td>
<td>April 1 – July 1</td>
<td>July 15</td>
</tr>
<tr>
<td>Spring Travel</td>
<td>August 1 – November 1</td>
<td>November 15</td>
</tr>
<tr>
<td>Summer Travel</td>
<td>December 1 – March 1</td>
<td>March 15</td>
</tr>
</tbody>
</table>

The maximum amount available for funding period is $500, 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 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](http://www.cmu.edu/graduate/professional-development/research-funding/index.html). Note that it’s important that the CEE Business Manager’s name (Cathy Schaefer) be included 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 Fennes 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’s important that the CEE Business Manager’s name (Cathy Schaefer) be included on all applications for GSA funding so that awarded funds are appropriately credited to the awardee’s account.
## Key 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](http://www.cmu.edu/cee/resources/who-to-call.html)

<table>
<thead>
<tr>
<th>Position</th>
<th>Contact Details</th>
<th>Services Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of Graduate Programs</td>
<td>Maxine Leffard <a href="mailto:leffard@andrew.cmu.edu">leffard@andrew.cmu.edu</a></td>
<td>• Add/Drop Information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Compliance and policy information</td>
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<tr>
<td></td>
<td></td>
<td>• Integrated BS/MS program</td>
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<tr>
<td></td>
<td></td>
<td>• Thesis Binding</td>
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<td></td>
<td></td>
<td>• Service Projects</td>
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<td></td>
<td></td>
<td>• Advisor, Office, TA Assignments</td>
</tr>
<tr>
<td>CEE Department Head</td>
<td>David Dzombak <a href="mailto:dzombak@cmu.edu">dzombak@cmu.edu</a></td>
<td>• Advisor Concerns</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Conflict Resolution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Concerns &amp; Grievances</td>
</tr>
<tr>
<td>CEE Director of Finances and Administration</td>
<td>Cathy Schaefer <a href="mailto:cathys@cmu.edu">cathys@cmu.edu</a></td>
<td>• Current Student Funding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Department administration</td>
</tr>
<tr>
<td>Payroll</td>
<td>Daniel Joyner <a href="mailto:djoyer@andrew.cmu.edu">djoyer@andrew.cmu.edu</a></td>
<td>• Related forms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Research Assistantship and Scholarship Processing</td>
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<tr>
<td></td>
<td></td>
<td>• Stipend payments</td>
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<tr>
<td></td>
<td></td>
<td>• Tuition payments and fees</td>
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<tr>
<td>CEE Career Services</td>
<td>TBD</td>
<td>• Resume and cover letter review</td>
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<tr>
<td></td>
<td></td>
<td>• Career search strategies</td>
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<tr>
<td></td>
<td></td>
<td>• Networking assistance</td>
</tr>
<tr>
<td>CEE Buyer and Business Support</td>
<td>Cornelia Moore <a href="mailto:cornelia@andrew.cmu.edu">cornelia@andrew.cmu.edu</a></td>
<td>• Reimbursements</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Travel assistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Conference Registration</td>
</tr>
<tr>
<td>CEE Systems Administrator</td>
<td>Julian Krishnamurti <a href="mailto:help@ce.cmu.edu">help@ce.cmu.edu</a></td>
<td>• Networking and computing issues within the department</td>
</tr>
<tr>
<td>CEE Facilities</td>
<td>TBD</td>
<td>• Lockout</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:help@ce.cmu.edu">help@ce.cmu.edu</a></td>
<td>• Card access</td>
</tr>
<tr>
<td>Associate Dean for Graduate and Faculty Affairs, College of Engineering</td>
<td>Kumar Bhagavatula <a href="mailto:vk16@andrew.cmu.edu">vk16@andrew.cmu.edu</a></td>
<td>• Concerns &amp; Grievances</td>
</tr>
<tr>
<td>University Ombudsman</td>
<td>Suzie Laurich-McIntyre <a href="mailto:slaurichmcintyre@cmu.edu">slaurichmcintyre@cmu.edu</a></td>
<td>• Graduate Student Advocate</td>
</tr>
</tbody>
</table>
Career and Professional Development Services

The Carnegie Mellon Career and Professional Development Center can help you prepare for your career search. You can make an appointment to review your resume and cover letter, participate in a mock-interview, develop a job hunt strategy, and connect with alumni in your area of interest. Visit them online at: http://www.cmu.edu/career/ for additional information.

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.

Press and Media Relations

To assure consistency in all communications and to maximize external visibility to target audiences the department head and communications coordinator work together to coordinate key messages and activities involving publicity.

The communications coordinator is the point-of-contact for all departmental communications. The communications coordinator 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 Communications Coordinator (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 do one of the following: 1) upgrade to an enhanced program, or 2) 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.studentaffairs.cmu.edu/HealthServices/insurance/#fall03.

If you leave the university before the term that your insurance is completed, you are responsible for canceling your health insurance policy. If you fail to do so, you will be financially responsible for all remaining balances.

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.

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 must submit a Voluntary Disclosure of Disability Form to access@andrew.cmu.edu to begin the interactive accommodation process.

Students with disabilities are encouraged to self-identify with Equal Opportunity Services by contacting Larry Powell, 412-268-2013, lpowell@andrew.cmu.edu to access the services available at the university and initiate a request for accommodations.

For more information please see http://www.cmu.edu/hr/eos/disability/index.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.

<table>
<thead>
<tr>
<th>Laboratory supplies</th>
<th>Cornelia Moore</th>
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<tbody>
<tr>
<td>Office Supplies</td>
<td><a href="mailto:cornelia@andrew.cmu.edu">cornelia@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Catering</td>
<td></td>
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<tr>
<td>Travel expenses</td>
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<tr>
<td>Conference registration</td>
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<tr>
<th>Computing supplies</th>
<th>Julian Krishnamurti</th>
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<tr>
<td></td>
<td><a href="mailto:help@ce.cmu.edu">help@ce.cmu.edu</a></td>
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</table>

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. 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.
Business Expenses

Legitimate business expenses can be reimbursed by the department. Cornelia Moore 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 Cornelia Moore 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, see if a staff member can purchase the item for you with a University-provided Procurement Card.

Travel Expenses

Legitimate travel expenses can be reimbursed by the department. Cornelia Moore will 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, Cornelia Moore 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.

Carnegie Mellon CEE Representatives:

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casey Caslin</td>
<td><a href="mailto:ccaslin@andrew.cmu.edu">ccaslin@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Lauren Cook</td>
<td><a href="mailto:laurenco@andrew.cmu.edu">laurenco@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Olumayokun (Ayo) Odukale</td>
<td><a href="mailto:oodukale@andrew.cmu.edu">oodukale@andrew.cmu.edu</a></td>
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</table>

CEE Board:

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Tania Lopez, President</td>
<td><a href="mailto:tlopez@andrew.cmu.edu">tlopez@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Jiali (Gary) Zhou, Vice President</td>
<td><a href="mailto:jializ@andrew.cmu.edu">jializ@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Juan Tzoc, VP Communication</td>
<td><a href="mailto:jtzoc@andrew.cmu.edu">jtzoc@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Irem Velibeyoglu, Secretary</td>
<td><a href="mailto:ivelibey@andrew.cmu.edu">ivelibey@andrew.cmu.edu</a></td>
</tr>
</tbody>
</table>
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.

The current GSAC members are:

Peter Adams, Faculty (Chair)  
Duygu, Altintas, EESS PhD (GSA Rep)  
Casey Caslin, AIS MS (GSA Rep)  
Lauren Cook, EESS PhD (GSA Rep)  
Kaushik Dayal, Faculty  
Nizette Consolazio, EESS PhD  
Athanasios Karamalidis, Faculty  
Varun Kasireddy, AIS PhD  
Navid Kazem, MMC PhD  
George Lederman, AIS PhD

Maxine Leffard, Staff  
Meagan Mauter, Faculty  
Megan Leitch, EESS PhD  
Joe Moore, EESS PhD  
Miguel Mora, AIS MS  
Hossein Pourmatin, MMC PhD  
Sean Qian, Faculty  
Costa Samaras, Faculty  
Qianwen She, MMC MS

Please don’t hesitate to contact any of the GSAC Representatives with your suggestions or concerns.
CEE Facilities and 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.

CEE Main Office

The Department offices in Baker Porter Hall (BP) 119 wing 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 the photocopying room. Please be mindful of CEE resources and photocopy only as necessary. Please 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 $.50 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 in the main office twice each day and delivered once each day, usually around 10:00 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 comprehensive exam dates, as well as expected completion. In some cases, offices may be assigned because of specific "sponsored" equipment or projects.

All offices and communal spaces have personal or shared computers 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 also strongly encouraged 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 Maxine Leffard, the Director of Graduate Programs. 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 to office space which is accessible by key. A single deposit of $30.00 is required for all department keys, which are required to enter graduate student offices. The deposit (minus a $5 key processing fee) will be returned when you are return the keys.

MS students are given access to two CEE MS Student Collaboration Suites accessible by university ID access.

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. Julian Krishnamurti, the Computing Services 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 projectors available for short-term use. Please check availability and reserve equipment through Julian Krishnamurti. 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 strong, 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 can be recycled in the Porter Hall 107 hallway, and batteries can be recycled in the graduate mailbox area near the Porter Hall 118 lounge.

**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.
Civil and Environmental Hauck 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 attend the laboratory safety training and hazardous waste management training before working in the CEE Hauck Environmental Engineering Laboratory. This is a 1-1/2 hour training course offered by EH&S. A training schedule and link to sign up for training can be found on the EH&S website. Suggestions related to better safety precautions are always welcome. As a general rule, never work alone in the labs and, if you are not sure of how to operate a certain piece of equipment, stop and ask the CEE Lab Director, the CEE Hauck Environmental Engineering Lab Manager, or the responsible faculty member. 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. Statements describing laboratory procedures follow this introduction.

4. 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
- Thanasis Karamalidis
- Greg Lowry
- Meagan Mauter
- Ron Ripper, 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:

- Lawrence Cartwright
- Kelvin Gregory
- Jim Thompson
5. 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 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 Hauck 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. Further all students are required to read the monthly newsletter provided by EHS. Finally, all students are required to use the ChemTracker chemical inventory when receiving or disposing of chemicals.

6. BIOLOGICAL SAFETY: All environmental engineering graduate 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 Hauck 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 procedure, provisions must be made to ensure that another person is in the laboratory area. This person does not have to be affiliated with the project; however, this person must be instructed as to what should be done in the event of an emergency.

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 Laboratory Director.

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 Lab Director. 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 the CEE Lab Director.
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 biowaste 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. 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 offices.

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.
Graduate Student Concerns and Grievances

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
- Maxine Leffard, Director of Graduate Programs
- Cathy Schaefer, Director of Finance and Administration
- David A. Dzombak, Department Head
- CEE Graduate Student Advisory Committee (Professor Peter Adams, Chair)
- CEE Graduate Student Assembly Representative
- Kumar Bhagavatula, Associate Dean of CIT 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 encouraged to review the following documents, which summarize processes available to graduate students who seek review of academic and non-academic issues.

- Carnegie Mellon Engineering Resolution of Grievances
- Graduate Education Resource

Additional resources for graduate students with personal or professional concerns:

- The University Counseling and Student Development Center
- The Carnegie Mellon Women's Center
Key Offices for Graduate Student Support

Associate Dean of Graduate and Faculty Affairs, College of Engineering

Vijayakumar Bhagavatula
www://http://engineering.cmu.edu/;

Office of the Assistant Vice Provost for Graduate Education
www.cmu.edu/graduate; grad-ed@cmu.edu
The Office of the Assistant Vice Provost for Graduate Education, AVPGE, directed by Suzie Laurich-McIntyre, Assistant Vice Provost for Graduate Education, provides central support for graduate students in a number of roles. These include: being an ombudsperson and resource person for graduate students as an informal advisor; resolving formal and informal graduate student appeals; informing and assisting in forming policy and procedures relevant to graduate students; and working with departments on issues related to graduate students and implementation of programs in support of graduate student development.

The Office of the AVPGE often partners with the division of Student Affairs to assist graduate students with their Carnegie Mellon experience. Senior members of the student affairs staff are assigned to each college (college liaisons) and are often consulted by the Assistant Vice Provost for Graduate Education and departments on an individual basis to respond to graduate student needs.

The Office of the Assistant Vice Provost for Graduate Education (AVPGE) offers a robust schedule of professional development opportunities. Some are geared towards a specific population (master’s students, PhD students at the beginning of their program, graduate students seeking tenure track positions, etc.) and others are open to all graduate students (time management, balancing, staying healthy). A full schedule of programs can be found at: http://www.cmu.edu/graduate/.

The Office of the AVPGE also coordinates several funding programs, and academically focused seminars and workshops that advise, empower and help retain all graduate students, particularly graduate students of color and women in the science and technical fields. The fundamental goals of our programs have been constant: first, to support, advise and guide individual graduate students as they work to complete their degrees; second, to contribute to the greatest degree possible to the diversification of the academy. Visit the Graduate Education website for information about:

- Conference Funding Grants
- Graduate Small Project Help (GuSH) Research Funding
- Graduate Student Professional Development: seminars, workshops and resources
- Graduate Women Gatherings (GWG)
- Inter-university Graduate Student of Color Series (SOC)

Office of the Dean of Student Affairs
www.cmu.edu/student-affairs/index.html
The Office of the Dean provides central leadership of the metacurricular experience at Carnegie Mellon. The offices that fall under the division of Student Affairs led by Dean of Student Affairs Gina Casalegno, include:

- Career and Professional Development Center
- Counseling & Psychological Services (CAPS)
- Housing & Dining Services
- Orientation & First Year Programs (note: for undergraduate students)
- Office of International Education (OIE)
- Student Activities
- Student Life
Holly Hippensteel, Assistant Dean of Student Affairs, serves as the point person in the division for graduate student resources and concerns. Graduate students will find the enrollment information for Domestic Partner Registration in the Office of the Dean of Student Affairs and on the website. The Office of the Dean of Student Affairs also manages the Emergency Student Loan (ESLs) process. The Emergency Student Loan service is made available through the generous gifts of alumni and friends of the university. The Emergency Student Loan is an interest-free, emergency-based loan repayable 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 the Dean of Student Affairs also provides consultation, support, resources and follow-up on questions and issues of Academic Integrity: www.cmu.edu/academic-integrity.

Assistance for Individuals with Disabilities
Students with disabilities are encouraged to self-identify with Equal Opportunity Services by contacting Larry Powell, 412-268-2013, lpowell@andrew.cmu.edu to access the services available at the university and initiate a request for accommodations.

Eberly Center for Teaching Excellence & Educational Innovation
www.cmu.edu/teaching
Support for graduate students who are or will be teaching is provided in many departments and centrally by the Eberly Center for Teaching Excellence & Educational Innovation. The Eberly Center offers activities for current and prospective teaching assistants as well as any graduate students who wish to prepare for the teaching component of an academic career. The Center also assists departments in creating and conducting programs to meet the specific needs of students in their programs. Specific information about Eberly Center support for graduate students can be found at: www.cmu.edu/teaching/graduatestudentsupport/index.html.

Graduate Student Assembly
www.cmu.edu/stugov/gsa/index.html
The Carnegie Mellon Student Government consists of an Executive Branch and a Legislative Branch. This is the core of traditional student government, as governed by the Student Body Constitution. The Executive Branch serves the entire student body, graduate and undergraduate, and consists of one president and four vice-presidents. The Legislative Branch for graduate students, The Graduate Student Assembly (GSA) passes legislation, allocates student activities funding, and otherwise acts on behalf of all graduate student interests. GSA also plans various social opportunities for graduate students and maintains a website of graduate student resources on and off-campus, www.cmu.edu/stugov/gsa/resources/index.html. Each department has representation on GSA and the department rep(s) is the main avenue of graduate student representation of and information back to the graduate students in the department.

Intercultural Communication Center (ICC)
www.cmu.edu/icc/
The Intercultural Communication Center (ICC) is a support service offering both credit and non-credit classes, workshops, and individual appointments designed to equip nonnative English speakers (international students as well as international students who attended high school in the U.S.) with the skills needed to succeed in academic programs at Carnegie Mellon. In addition to developing academic literacy skills such as speaking, reading and writing, students can learn more about the culture and customs of the U.S. classroom. The ICC also helps international teaching assistants (ITAs) who are non-native English speakers develop fluency and cultural understanding to teach successfully at Carnegie Mellon and provides ITA testing.
Office of International Education (OIE)  
[www.studentaffairs.cmu.edu/oie/](http://www.studentaffairs.cmu.edu/oie/)

Carnegie Mellon hosts international graduate and undergraduate students who come from more than 90 countries. 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; supporting international and cultural student groups such as the International Student Union and the International Spouses and Partners Organization; 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.

Key Offices for Academic & Research Support

Computing and Information Resources  
[www.cmu.edu/computing](http://www.cmu.edu/computing)

Computing Services provides a comprehensive computing environment at Carnegie Mellon. Graduate students should seek Computing Services for information and assistance with your Andrew account, network access, computing off-campus, campus licensed software, email, calendar, mobile devices, computer security, cluster services and printing.

The Carnegie Mellon Computing Policy establishes guidelines and expectations for the use of computing, telephone and information resources on campus. The policy is supported by a number of guidelines graduate students should know. The policy and guidelines are available at: [www.cmu.edu/computing/guideline/index.html](http://www.cmu.edu/computing/guideline/index.html).

Research at CMU  
[www.cmu.edu/research/index.shtml](http://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](http://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, intellectual property rights and regulations, 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
www.studentaffairs.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 confused about why they are feeling upset and perhaps confused about how to deal with it. 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 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. There is a small visit fee to see the physicians and advanced practice clinicians; nurse visits are free of charge. Fees for prescription medications, laboratory tests, diagnostic procedures and referral to the emergency room or specialists are the student’s responsibility. 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. It also covers most of the fees for care at Student Health Services. Graduate students should contact UHS to discuss options for health insurance for spouses, domestic partners and dependents. Appointments can be made by visiting UHS’s website or by telephone, 412-268-2157.

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, Room 199 (entrance is on Filmore Street). The department’s services include police patrols and call response, criminal investigations, shuttle and escort services (additional information included in the Parking and Transportation section of The WORD, see below), fixed officer and foot officer patrols, event security, and crime prevention and education programming. Visit the department’s website for additional information about the staff, escort and shuttle, 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 www.cmu.edu/police/annualreports.

The WORD
http://www.cmu.edu/student-affairs/theword/

The WORD is Carnegie Mellon University’s student online 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 their 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/
Lists, Schedules, Directories, and Additional Resources

The following is a listing of common resources to graduate students. Please see the Carnegie Mellon main page [http://www.cmu.edu/current-students/index.shtml](http://www.cmu.edu/current-students/index.shtml) for a complete listing.

- **CEE Bboards RSS Feed Instructions**
- **Academic Calendar**
- **Schedule of Classes (with course descriptions)**
- **CEE Directories (Faculty, Staff, Graduate Students, Post Docs and Visiting Scholars)**
- **CEE Bboards**
  - Academic Jobs - post+academic.ce.academic-jobs@andrew.cmu.edu
  - Non-Academic Jobs - post+academic.ce.employment-opportunities@andrew.cmu.edu
  - Graduate Development - post+academic.ce.graduate-developement@andrew.cmu.edu
  - Fellowships - post+academic.ce.graduate-fellowships@andrew.cmu.edu
- **Career Services – CMU Career and Professional Development Center**
- **Carnegie Mellon Child Care**
- **Computing Services**
- **Counseling and Student Development Center**
- **Green Practices**
- **University Dining Services**
- **Environmental Health & Safety**
- **Fellowship Resource Advising Center**
- **Health Services**
- **Graduate Student Assembly**
- **Graduate Student Concerns Grievances**
- **Graduate Student Education Office**
- **Graduate Student Housing**
- **Campus Maps**
- **Campus Parking**
- **Recycling**
- **Retail Services**
- **Student Information Online**
- **Campus Police**
- **Student Affairs**
- **University Libraries**
- **Transportation Services (escort, shuttle)**
• Women's Center