THE ROBOTICS MASTERS PROGRAM
AT CARNEGIE MELLON UNIVERSITY

HANDBOOK
2016-2017

Robotics Institute
Carnegie Mellon University
Pittsburgh, PA 15213

Note: The information contained in this graduate handbook focuses on the resources and locations available at the Carnegie Mellon Pittsburgh Campus.
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Welcome

We are proud of the open, friendly culture that has been the hallmark of the Robotics Institute since its inception. Faculty keep their office doors open to encourage informal meetings with students and colleagues. Graduate students organize frequent department-wide social activities, ranging from Friday afternoon get-togethers to rock climbing trips. And the department’s strong support for collaboration creates an ideal environment for world class robotics research.

The Robotics Institute is an intellectually diverse, multi-disciplinary department. The Institute’s faculty and students come from a wide variety of backgrounds and represent many unique areas of expertise. This diversity stems from the multi-disciplinary nature of the robotics, which encompasses aspects of computer science, mechanical engineering, electrical engineering, psychology, and many other disciplines.

The robotics Master of Science program brings together areas of robotics research that would otherwise be spread across different departments or separate universities, preparing students to take a leading role in the research and development of future generations of integrated robotics technologies and systems.

Since the start of the Robotics PhD program, we have steadily grown and expanded our programs of study. Today, we offer diverse opportunities at all levels of education - from masters programs and an undergraduate minor for Carnegie Mellon students down to the K-12 level, where our renowned programs, workshops, and summer classes inspire and educate the next generation of roboticists.

While this handbook is specific to your academic experience in the department, there are several other resources and offices graduate students are encouraged to consult during their tenure at Carnegie Mellon University. Information about The Word, the student handbook, the Office of the Assistant Vice Provost for Graduate Education, the Office of the Dean of Student Affairs and others are included in Appendix A of this handbook.
Mission or Philosophy/Brief Overview of Department

Even when robotics technologies were relatively primitive, their potential role in boosting the productivity and competitiveness of the United States was foreseen in the evolving global marketplace. The Robotics Institute at Carnegie Mellon University was established in 1979 to conduct basic and applied research in robotics technologies relevant to industrial and societal tasks. Seeking to combine the practical and the theoretical, the Robotics Institute has diversified its efforts and approaches to robotics science while retaining its original goal of realizing the potential of the robotics field.
**Degrees Offered**

**PhD Programs**

**Doctor of Philosophy (PhD)** The world's first doctoral program in robotics prepares graduate students to be tomorrow's leaders in robotics research.

**Ph.D. Specializations**

Students admitted to the Ph.D. Program in Robotics may choose to further specialize in one of two tracks; M.D. / Ph.D. Program with the University of Pittsburgh Medical Center; Center for the Neural Basis of cognition (CNBC). These students must also be separately admitted to those programs; they fulfill the same basic requirements as regular Ph.D. students in Robotics but have additional requirements to fulfill. Brochures and catalogs for both specialized programs are available as separate documents from the Graduate Program Coordinator.

**Center for the Neural Basis of Cognition Option** The Center for the Neural Basis of Cognition offers an interdisciplinary training program operated jointly with affiliated doctoral programs at Carnegie Mellon University and the University of Pittsburgh. The affiliated programs include Robotics, Computer Science, Psychology, and Statistics at Carnegie Mellon, and Mathematics, Psychology, and the Program in Neuroscience at the University of Pittsburgh.

The CNBC option for Robotics Ph.D. students allows them to combine intensive training in RI with a broad exposure to cognitive science, neural computation, and other disciplines that touch on problems of higher brain function.

**MD / PhD Option** Students are first accepted into the M.D. / Ph.D. Program at the University of Pittsburgh Medical Center (UPMC), a major medical research institution located within walking distance of the Robotics Institute. After two years of medical school, students enter the Ph.D. portion of their program, which typically lasts from 3 - 5 years, before returning to finish medical school. At the Robotics Institute, a number of faculty are involved in medically related research and may serve as the primary Ph.D. advisor. During their first two years of medical school, students normally work for a 10-week period in one or more laboratories, to determine their choice of Ph.D. advisor. Students apply for admissions to the Robotics Institute during the fall term of their second year in medical school.

**Masters Programs**

**Master of Science (RI-MS)** A two year master’s program that teaches the fundamentals of robotics theory and practice through coursework and independent research.

**Master of Science - Robotic Systems Development (MRSD)** A three-semester advanced graduate degree with a combined technical/business focus for recent graduates/practicing-professionals engaged in, or wishing to enter, the robotics and automation field as practitioners in the commercial sector.

**Master of Science – Computer Vision (MSCV)** A 16 month master’s program that teaches the fundamentals of computer vision theory to prepare students for careers in industry.

**Undergraduate Programs**

**Additional Major** The Robotics Additional Major is for those undergraduates who want an in-depth understanding of Robotics Engineering and Science.

**Undergraduate Minor** An undergraduate program that teaches the principles and practice of robotics through theoretical studies and hands-on experience with robotics. Graduate Student Handbook
University Policies & Expectations
It is the responsibility of each member of the Carnegie Mellon community to be familiar with university policies and guidelines. In addition to this departmental graduate student handbook, the following resources are available to assist you in understanding community expectations:

- Academic Integrity Website: [www.cmu.edu/academic-integrity](http://www.cmu.edu/academic-integrity)
- University Policies Website: [www.cmu.edu/policies/](http://www.cmu.edu/policies/)
- Graduate Education Website: [http://www.cmu.edu/graduate/policies/index.html](http://www.cmu.edu/graduate/policies/index.html)

Should you need any of the above resources in a different format, you may contact Barbara Jean (B.J.) Fecich.

Please see Appendix A for additional information about The Word and University resources.

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

Inquiries concerning the application of and compliance with this statement should be directed to the vice president for campus affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056. Obtain general information about Carnegie Mellon University by calling 412-268-2000. The Statement of Assurance can also be found on-line at: [http://www.cmu.edu/policies/documents/SoA.html](http://www.cmu.edu/policies/documents/SoA.html).

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

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

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

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

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

The Carnegie Mellon Code can also be found on-line: [http://www.cmu.edu/student-affairs/theword/code.html](http://www.cmu.edu/student-affairs/theword/code.html)
Department Personnel

- Andrew Moore, Dean, School of Computer Science
- Martial Hebert, Director of the Robotics Institute
- David Wettergreen, Associate Director for Education, Chair of the Robotics Doctoral Program, Research Professor
- George Kantor, Chair of the Robotics Master’s Program
- John Dolan, Director of the MS Robotic Systems Development
- Mel Siegel, Director of the MS Robotics Technology Program
- Srinivasa Narasimhan, Director of the Master’s Program in Computer Vision
- Illah Nourbaksh, Associate Director for Faculty, Professor
- Cheryl Wehrer, Associate Director for Finance & Administration
- Barbara Jean (B.J.) Fecich, Academic Program Manager: Robotics Master’s Program
- Suzanne Muth, Academic Program Manager: Robotics Doctoral Program
- Rachel Burcin, Global Programs Manager: Summer Scholars and MS Robotics Technology Program
- Sarah Conte, Academic Program Manager: MS Robotic Systems Development and MS Computer Vision
- Robotics Faculty
- Robotics Office Staff
- Robotics Main Office and Phone Number, Newell Simon Hall 4000B, 412.268.3818
- SCS Computing Facilities

Graduate Student Department/College Ombudsman

David Wettergreen and George Kantor serve as ombudspersons for graduate students to assist with difficult academic or personal situations where a confidential sounding board and/or an intermediary can be helpful. Examples of situations where students are encouraged to seek advice or assistance include:

- Difficulty in communications with advisor, particularly when those difficulties may lead to considering changing advisors or leaving the program
- Conflict with other group members that is difficult to resolve within the group
- Issues related to diversity or the departmental climate for those in groups who are historically underrepresented in science
- Personal concerns that interfere significantly with the ability to make timely progress in research or program requirements. These might be due to health, family or financial challenges.
- Additionally, students may confer with the university graduate student ombudsman, Suzie Laurich-McIntyre, slaurichmcintyre@cmu.edu, on issues of process or other concerns as they navigate conflicts. Suzie Laurich-McIntyre is the Assistant Vice Provost for Graduate Education.
Department Information

- **Department Directory**

- Mail – RI does not offer mailboxes for students. Please use your lab address and faculty member’s Administrative Assistant to ensure delivery. If you MUST have mail sent to the RI office use: Your Name, RI-MS Student, The Robotics Institute, 4000B Newell Simon Hall, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213. Let B.J. Fecich know if you are using the departmental address as mail will likely be delivered to her. Mail not picked up a week after delivery will be returned to sender or discarded.

- **Graduate Student Travel** must be approved in advance by the student's advisor. For travel to a conference, approval must be obtained before the paper is submitted to the conference; for other travel, approval must be obtained before the student can make a commitment to attend. You can download a form for requesting permission to travel.

  It is generally expected that the student's advisor, or other faculty member overseeing the travel, will arrange for funding before granting approval for the travel. Funding must be arranged before the travel request can be approved.

- If there are visa concerns for graduate student travel, check the U.S. State Department's [Travel & Living Abroad](#) page.

- **Copy, Printing, Faxing Scanning**

- **Conference & Classrooms**

- **Conference & Classroom Audio/Video Support**

- **Creative Media**
  The Robotics Creative Media is an online resource available to students who need information regarding HD video production, audio production, design & print, such as business cards, photography, event materials and specialty items that can be purchased from the Robotics Store.

- **Emergency Situations**

- **Phone/Fax Usage & Information**

- **RoboOrg – The Robotics Student Organization**

- **Robotics Institute Kitchens**

- **SCS Computing Guide**

- **Who to See for What**

- **Women@SCS**

**Department Approach to Press and Media Relations**

To assure consistency in all communications and to maximize external visibility to target audiences the marketing and communication staff works together to coordinate key messages and activities involving publicity.

The director of media relations in the SCS Dean’s Office, Byron Spice, is the point-of-contact between news media and the School of Computer Science community, including faculty, students, administrators and staff. He can assist with strategic planning for publicity, interview preparation, and (depending on the specific project or issue) may assist in developing news stories or multi-media for the SCS website and social media channels.
Degree Attainment

Statute of Limitations
As outlined in the Master’s Students Statute of Limitations, http://www.cmu.edu/policies/documents/MastersStudentStatuteLimitations.html, students who have matriculated at Carnegie Mellon beginning Fall 2012 will complete all requirements for the master’s degree within a maximum of seven years from original matriculation as a master’s student, or less if required by a more restrictive department, school or college policy. Once this time-to-degree limit has lapsed, the person may resume work towards a master’s degree only if newly admitted to a currently offered master’s degree program under criteria determined by that program.

Under extraordinary circumstances, such as leave of absence, military or public service, family or parental leave, or temporary disability, a school or college may, upon the relevant department's recommendation and with the written approval of the dean (or designate), defer the lapse for a period commensurate with the duration of that interruption. Students who are pursuing a master’s degree as part-time students for all semesters of their program, as approved by their program, may also appeal to their program or department for extension of the time to degree limit.

Full-time Status
Full-time status for all students in the Robotics Research Master’s Program is a minimum of 36 units each semester.

Master of Science Program Curriculum and Related Policies/Protocols
The degree requirements for students in the Robotics Research Master's Program at Carnegie Mellon consist of core course requirements, elective courses, and supervised research culminating in a public thesis talk and a Master’s Thesis document.

The Robotics Research Master's Degree Program is a doorway to a research career, preparing the candidate well for doctoral degree programs as well as research staff positions at companies and government agencies such as NASA, Mitsubishi and Google. The degree emphasizes course and research qualifications equally, ensuring that the student attains both breadth of understanding in Robotics together with specialized depth knowledge in an area of particular interest to the student and faculty advisor. Depth areas are entirely customized to student and faculty joint interests, including for instance Human-Robot Interaction, Haptics, Field Robotics, Robotic Vision, Machine Learning, et cetera.

The Program is designed to be completed nominally in two academic years as outlined below, with exceptional trajectories as described below for the fifth-year Research Master’s option available to admitted Carnegie Mellon undergraduates, and for Carnegie Mellon staff who are taking courses and conducting research part-time while performing staff duties.

While there are a limited number of research assistantships available from time to time in the case of faculty with research funding for specific Master’s research directions, these are normally awarded at the time when admissions occurs; therefore Research Master’s enrollees should expect to arrange funding for their tuition costs for the two year duration as there is no guarantee of financial support available. Note also that Master’s student frequently choose to spend the summer between Year 1 and Year 2 at Carnegie Mellon, where they continue to pursue research full-time with their faculty advisor and are usually paid a stipend for living expenses during this time.

The Master’s Thesis requirement is satisfied through the oversight of the Master’s Committee, formed from faculty and students at The Robotics Institute who read and approve the Master’s Thesis document and attend and approve the public thesis presentation, as described below.

Review of Progress
Satisfactory progress in coursework will be assessed by the student keeping up with the course schedule and passing courses. All courses must be passed with a grade of B-, or better with an overall grade point average of a 3.3 or higher to graduate.
Elective coursework must be approved by the Master’s program head during the first month of classes in the first semester, and prior to class enrollment in all subsequent semesters. The faculty advisor will assign a pass / fail grade every semester for the supervised research. To oversee completion of the Master’s thesis requirements the student will form a Master’s Committee that will verify the quality of the Master’s thesis in both written and presentation forms.

Faculty Advisor
Master's students beginning in the fall semester must have a faculty advisor by November 30th; those beginning in the spring semester must have a faculty advisor by March 31st. Students must notify the Master’s program head of their mutually agreed-upon advisor-advisee relationship with a chosen faculty member. Note that the faculty must have a faculty appointment in the Robotics Institute, and that a faculty accepting the Master’s advisor relationship is never financially responsible for the Master’s student, except in the relatively rare cases when a research assistantship has been explicitly negotiated.

Master’s Committee
The student will form a Master’s Committee consisting of two faculty members and one Robotics Institute Ph.D. student who has completed his or her second year of study, or a Ph.D. student who has successfully graduated from the Robotics Research Master’s program. The committee should include the student's advisor as well as a second faculty member from a different research group or project than that of the student. The Master’s Committee must be formed during the student's first enrolled semester. The Master’s student is expected to hold at least two research meetings with each member of the Committee individually, discussing his or her research directions. The student is also expected to deliver a complete draft Master’s Thesis document to the committee sufficiently in advance of the oral presentation and graduation to enable committee feedback to be taken into account. The draft document must be disseminated at least two weeks prior to the schedule oral presentation. The oral presentation, in turn, must be scheduled well in advance, and must occur on a weekday before May 7 for spring graduation, August 1 for summer graduation, and December 1 for fall graduation. On-line forms are used (via the BlackFriday site) by the Committee members to report on each research meeting with the Master’s candidate and to approve the final Thesis document and Thesis presentation.

Course of Study
The Research Master's Degree requires completion of a minimum of 168 Carnegie Mellon units. Students may enroll for a maximum of 48 units per semester. Of the total units fulfilling the Master’s Degree requirements, at least 84 units must be comprised of core and elective coursework, and at least 84 units must be comprised of supervised research. Four core courses and three elective courses are required as part of the 84 credit course minimum as described below:

Core Courses
Four of the courses must be drawn from the "Core Courses", one course from each of the following four areas. Note that this list of core course options is identical to the Core Course list required for the Robotics Ph.D. program at The Robotics Institute. Core courses taken during the Research Master’s program can be used to partially fulfill the Core requirements of the Ph.D. program if the Research Master’s student is later accepted and enrolls in the RI Ph.D. program.

- Perception: vision, image sensors, range data interpretation, tactile and force sensors, inertial guidance, and other sensors.
Core courses in Perception are 16-720 Computer Vision, and 16-722 Sensing and Sensors.

- Cognition: artificial intelligence for robotics, including knowledge representation, planning, and task scheduling.
Core courses in Cognition are 15-780 Graduate Artificial Intelligence, and 10-701 Machine Learning.

- Action: kinematics, dynamics, control, manipulation and locomotion.
Core courses in Action are 16-741 Mechanics of Manipulation, and 16-711 Kinematics, Dynamic Systems and Control.

- Math Foundations: signal processing, optimal estimation, differential geometry, and operations research.
There is one core course in this area: 16-811 Math Fundamentals for Robotics.
Elective Courses
The student must take at least 36 units of elective courses, comprising at least 3 elective courses. These can be drawn from appropriate graduate courses in Robotics and in related disciplines at Carnegie Mellon. Elective coursework must be approved by the Master's program head during the first month of classes in the first semester, and prior to class enrollment in all subsequent semesters. Request approval by e-mailing the program chair and cc'ing B.J. Fecich.

Supervised Research
The balance of the units, at a minimum of 84 units, will come from supervised research (16-997), which will be conducted in conjunction with a faculty advisor's research program, working with that faculty on one of the on-going projects of the laboratory to develop a research thesis question, conduct the research and create the material results that can give form to the Master's Thesis document. Supervised research is graded pass/fail, based on the advisor's assessment that the student has learned how to contribute to an original research project. Those students who receive research assistantships are expected to satisfy their supervised research requirement by working specifically on the project from which they receive their funding, and they are expected to enroll for 24 units of 16-997 in any semester that they receive funding.

Resources and Regulations Governing Research at Carnegie Mellon

- Office of Sponsored Programs
- Office of Research Integrity & Compliance
- Intellectual Property Policy
- Policy on Restricted Research
- Human Subjects in Research Policy

Final Presentation and Thesis Document
The student is expected to give an oral thesis presentation in a public venue at Carnegie Mellon. The student is expected to demonstrate the ability to present technical material to a technical audience that is not presumed to have specific expertise in the research area. The Master's Committee should be in attendance. The student is also expected to deliver a Master's Thesis describing the supervised research. This should be a document for which the student is the sole or principal author. The thesis should demonstrate a style, organization and clarity that enable researchers in the field to comprehend the problem, method, and results of the research. Once approved, the Thesis must be archived as a Carnegie Mellon Technical Report.

Carnegie Mellon Staff Enrollees and Undergraduate Fifth-Year Enrollees
Carnegie Mellon staff can enroll in university courses at reduced or zero cost. While this approach to satisfying some of the courses for the Research Master’s program is appropriate, staff is encouraged to apply and enroll in the Master’s program as early as possible, once they decide to pursue the degree. Before application acceptance, the only Master’s requirements that can be met in advance are Core Course units. Following application acceptance, staff and undergraduates should form their Master’s Committee and mutually select a faculty advisor. This is particularly important for senior undergraduates wishing to begin their Supervised Research units in the summer between senior and Master’s years, as Supervised Research units will not count toward the Master’s degree unless the student has an approved Committee and faculty advisor. Elective courses will only count toward the Master’s degree while the student is enrolled in the Master’s Program. Furthermore, all Research Master’s students must be enrolled in the Robotics Research Master’s program for two academic semesters prior to graduation.

Carnegie Mellon undergraduates can therefore minimize the time required, enabling a fifth-year Master’s degree, by organizing their schedule to complete all core courses as an undergraduate, conduct Supervised Research in the subsequent summer after senior graduation, and then undertake two semesters of Supervised Research and three elective courses while continuing their Supervised Research. Note that courses at Carnegie Mellon cannot double-count toward multiple degrees, therefore core courses taken as an undergraduate can only be applied toward the Research Master’s degree if they are not used to satisfy any undergraduate degree requirements.
The Robotics Immigration Course
The student’s research education begins in the Robotics Immigration Course, which all Robotics students must attend at the beginning of their first semester in the program. The Robotics Immigration Course is a series of lectures, discussions, and demonstrations that familiarize the students with Carnegie Mellon and the Robotics Program, introduce the research projects and faculty within the Program and affiliated departments, and describe the computational and other resources available to students in the Program. The Robotics Immigration Course gives students an opportunity to learn what it means to conduct research and to get to know the faculty in the Robotics Program.

Prerequisites to the Core Courses
It is each student’s personal responsibility to arrive with, or to acquire rapidly thereafter, basic understanding (at the level of an introductory undergraduate course) in the following areas:

- Mathematics: calculus, linear algebra, numerical analysis, probability and statistics
- Computer Science: programming, data structures, algorithms
- Physics and Engineering: mechanics, dynamics, electricity and magnetism, optics

On request, the faculty will advise incoming students about individually appropriate alternative ways to satisfy these requirements, e.g., taking an undergraduate course, serving as a TA in an undergraduate course, or self-study by guided reading and discussion.

Transfer Credit / Course Waiver
On the basis of previous related course work, students may apply by completing a waiver request form to waive any course. The Chair of the Program will then assign a suitable faculty member to handle the request, typically the relevant course instructor or an expert in the topic.

In some cases, the faculty may determine that a student has demonstrated significant knowledge of the research area, but not quite sufficient enough to waive the course requirement entirely. In such cases, the faculty may grant a conditional waiver, contingent upon additional work, such as successfully acting as teaching assistant in the course or completing a designated project. If a student disagrees with the outcome, he or she may petition the Program Chair to review the case.

Independent Study
Independent Study (16-995) is a course 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 Robotics Institute is eligible to serve as the supervisor of an Independent Study research project. The student must provide a brief prospectus of the project to the faculty supervisor as a basis for reaching agreement on the objectives of the study and provide this to their advisor and to the Program Chair for approval.

Grades & Grading
Passing grade for graduate courses is B- or better. Once the required coursework is completed, students register for a blanket course (e.g., “Reading and Research”) covering all their program activities for that semester, for which they receive a Pass/No Pass grade. Robotics M.S. students may formally register for graduate or undergraduate courses in other departments, in which case they are subject to the grading policies of the University and the department offering the course. Students enrolled in other programs, but taking courses in Robotics, are assigned either a letter grade or a “Pass/Fail/No Grade,” at the option of the instructor. When a letter grade is required by the student’s home department in order to receive credit toward the degree, the policy of the home department will be respected. The University Policy on Grades [www.cmu.edu/policies/documents/Grades.html](http://www.cmu.edu/policies/documents/Grades.html) offers details concerning university grading principles for students taking courses and covers the specifics of assigning and changing grades, grading options, drop/withdrawals and course repeats. It also defines the undergraduate and graduate grading standards.
Summary of Graduate Student Appeal and Grievance Procedures
http://www.cmu.edu/graduate/policies/Summary%20of%20Graduate%20Student%20Appeal%20and%20Grievance%20Procedures.html

Graduate students will find the Summary of Graduate Student Appeal and Grievance Procedures on the Graduate Education Resource webpage. This document summarizes processes available to graduate students who seek review of academic and non-academic issues. Generally, graduate students are expected to seek informal resolution of all concerns within the applicable department, unit or program before invoking formal processes. When an informal resolution cannot be reached, however, a graduate student who seeks further review of the matter is to follow the formal procedures outlined here. These appeal and grievance procedures shall apply to students in all graduate programs of the University. Students should refer to the department specific information in this handbook for department and college information about the administration and academic policies of the program. Additionally, students may confer with the graduate student ombudsman, Susie Laurich-McIntyre, slaurichmcintyre@cmu.edu, on issues of process or other concerns as they navigate conflicts

Academic Integrity
Please review the University expectations at: http://www.cmu.edu/academic-integrity/

Please review the entire policy at: http://www.cmu.edu/policies/documents/Academic%20Integrity.htm


Leave of Absence
Students who wish to leave the program temporarily may request a leave of absence by submitting a request to their Program Manager. Leaves are initially granted for a period of no more than one year, but an extension of up to one additional year may be granted under exceptional circumstances. When an extension is granted, the conditions for return must be negotiated with the advisor and the M.S. Program Chair prior to returning to the program. Students not in good standing will have conditions for return determined by the Program Chair in consultation with the advisor.

Students on leave of absence should contact the Program Manager two months prior to the end of the leave to indicate their plans for the next year. While a leave can, in principle, start at any time, university regulations allows students to return only at the beginning of a semester (usually late August or early January).

Enrollment Verification
Enrollment Services is the only University office that can provide an official letter of enrollment, official transcript and enrollment verification. Enrollment verification can be requested online through The HUB at: http://www.cmu.edu/hub/transcripts/verifications/enrollment.html.

University Financial Aid
Students should consult the graduate student financial aid information found on The HUB website: http://www.cmu.edu/finaid/graduate/index.html. Students will find the Graduate Financial Aid Guide, information about funding options and how to apply for financial aid and other helpful links. Graduate students who find themselves in need of immediate funds for emergency situations should contact the Office of the Dean of Student Affairs (see Appendix A), www.cmu.edu/student-affairs/index.html, to inquire about an Emergency Student Loan.
Policy Against Sexual Harassment and Sexual Assault
Sexual harassment and sexual assault are prohibited by CMU, as is retaliation for having brought forward a concern or allegation in good faith. The policy can be viewed in its entirety at:  

If you believe you have been the victim of sexual harassment or sexual assault, you are encouraged to make contact with any of the following resources:

- Sexual Harassment Advisors, found in appendix A of the Policy Against Sexual Harassment and Sexual Assault;
- Survivor Support Network, found in appendix B of the Policy Against Sexual Harassment and Sexual Assault;
- Sexual Harassment Process and Title IX Coordinators, found in section II of the Policy Against Sexual Harassment and Sexual Assault;
- University Police, 412-268-2323
- University Health Services, 412-268-2157
- Counseling & Psychological Services, 412-268-2922

Maternity Accommodation Protocol
http://www.cmu.edu/student-affairs/theword/acad_standards/creative/studentmaternityprotocol.html

Students whose anticipated delivery date is during the course of the semester may consider taking time away from their coursework and/or research responsibilities. All female students who give birth to a child while engaged in coursework or research are eligible to take either a short-term absence or formal leave of absence. Students in coursework should consider either working with their course instructor to receive incomplete grades, or elect to drop to part-time status or to take a semester leave of absence. Students engaged in research must work with their faculty to develop plans for the research for the time they are away.

Students are encouraged to consult with relevant university faculty and staff as soon as possible as they begin making plans regarding time away. Students must contact the Office of the Dean of Student Affairs to register for Maternity Accommodations. Students will complete an information form and meet with a member of the Dean’s Office staff to determine resources and procedures appropriate for the individual student. Planning for the student’s discussion with her academic contact(s) (advisor, associate dean, etc.) will be reviewed during this meeting.
Appendix A

Highlighted University Resources for Graduate Students

Key Offices for Graduate Student Support

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, Ph.D., 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 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 can be found at: http://www.cmu.edu/graduate/.

The Office of 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 Students of Color Series (SOC)

The WORD

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

The WORD is Carnegie Mellon University’s student on-line handbook and is considered a supplement to the department (and sometimes college) handbook. The WORD contains campus resources and opportunities, academic policy information and resources, community standards information and resources. It is designed to provide all students with the tools, guidance, and insights to help you achieve your full potential as a member of the Carnegie Mellon community. Appendix B contains a list (not an exhaustive list) of information that is included in The WORD. Graduate students are encouraged to bookmark the site and refer to it often.

University policies can also be found in full text at: http://www.cmu.edu/policies/.
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 Vice President and Dean of Student Affairs Gina Casalegno, include (not an exhaustive list):

- Career and Professional Development Center
- Cohon University Center
- Counseling & Psychological Services (CAPS)
- Dining Services
- Housing Services
- Office of Integrity and Community Standards
- Office of International Education (OIE)
- Student Activities
- University Health Services

Graduate students will find the enrollment information for Domestic Partner Registration and Maternity Accommodations 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 Integrity and Community Standards 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
http://www.cmu.edu/hr/eos/disability/index.html
Assistance for Individuals with Disabilities (Text is required to be in all handbooks to be compliant with Equal Opportunity Services requirements.) 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.

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.
Carnegie Mellon Ethics Hotline
The health, safety and well-being of the university community are top priorities at Carnegie Mellon University. CMU provides a hotline that all members of the university community should use to confidentially report suspected unethical activity relating to financial matters, academic and student life, human relations, health and campus safety or research.

Students, faculty and staff can anonymously file a report by calling 877-700-7050 or visiting www.reportit.net (user name: tartans; password: plaid). All submissions will be reported to appropriate university personnel. The hotline is NOT an emergency service. For emergencies, call University Police at 412-268-2323.

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, advocates for legislative action locally and in Washington D.C. on behalf of graduate student issues and needs, and otherwise acts on behalf of all graduate student interests. GSA also contributes a significant amount of funding for conferences and research, available to graduate students through application processes managed by the Office of the Assistant Vice Provost for Graduate Education. 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. Each department has representation on GSA and receives funding directly from GSA’s use of the student activities fee for departmental activities for graduate students. 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 and/or undergraduate programs 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, required testing indicating a nonnative speaking student has a language proficiency required before being allowed to work with undergraduates in classes, labs or individual meetings.

Veterans and Military Community
http://www.cmu.edu/veterans/
Military veterans are a vital part of the Carnegie Mellon University community. Graduate students can find information on applying veteran education benefits, campus services, veteran’s groups at CMU, non-educational resources and international military service information through the Veterans and Military Community website. There are also links and connections to veteran resource in the Pittsburgh community. The Naval ROTC and Veteran Affairs Offices are located at 4615 Forbes Avenue, uro.vaedbenefits@andrew.cmu.edu, 412-268-8747.
Office of International Education (OIE)
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
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. Computing Services can be reached at it-help@cmu.edu. 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.

Research at CMU
www.cmu.edu/research/index.shtml
The primary purpose of research at the university is the advancement of knowledge in all fields in which the university is active. Research is regarded as one of the university’s major contributions to society and as an essential element in education, particularly at the graduate level and in faculty development. Research activities are governed by several university policies. Guidance and more general information is found by visiting the Research at Carnegie Mellon website.

Office of Research Integrity & Compliance
www.cmu.edu/research-compliance/index.html
The Office of Research Integrity & Compliance (ORIC) is designed to support research at Carnegie Mellon University. The staff work with researchers to ensure research is conducted with integrity and in accordance with federal and Pennsylvania regulation. ORIC assists researchers with human subject research, conflicts of interest, responsible conduct of research, export controls, 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 calling, 412-268-2922.

Health Services
www.cmu.edu/HealthServices/
University Health Services (UHS) is staffed by physicians, advanced practice clinicians and registered nurses who provide general medical care, allergy injections, first aid, gynecological care and contraception as well as on-site pharmaceuticals. The CMU student insurance plan covers most visit fees to see the physicians and advanced practice clinicians & nurse visits. Fees for prescription medications, laboratory tests, diagnostic procedures and referral to the emergency room or specialists are the student’s responsibility and students should review the UHS website and their insurance plan for detailed information about the university health insurance requirement and fees. UHS also has a registered dietician and health promotion specialists on staff to assist students in addressing nutrition, drug and alcohol and other healthy lifestyle issues. In addition to providing direct health care, UHS administers the Student Health Insurance Program. The Student Health Insurance plan offers a high level of coverage in a wide network of health care providers and hospitals. 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, 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.

Shuttle and Escort Services
University Police coordinates the Shuttle Service and Escort Service provided for CMU students, faculty, and community. Full information about these services, stops, routes, tracking and schedules can be found online at: http://www.cmu.edu/police/shuttleandescort/

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.
Appendix B

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

Academic Standards, Policies and Procedures Educational Goals
   Academic and Individual Freedom Statement on Academic
   Integrity Standards for Academic & Creative Life
   Assistance for Individuals with Disabilities Master’s Student
   Statute of Limitations Conduct of Classes
   Copyright Policy
   Cross-college & University Registration Doctoral Student
   Status Policy
   Evaluation & Certification of English Fluency for Instructors Final Exams for
   Graduate Courses
   Grading Policies Intellectual Property Policy
   Privacy Rights of Students Research
      Human Subjects in Research
      Office of Research Integrity & Compliance Office of Sponsored
      Programs
      Policy for Handling Alleged Misconduct of Research Policy on Restricted
      Research
   Student’s Rights
   Tax Status of Graduate Student Awards

Campus Resources & Opportunities Alumni Relations
   Assistance for Individuals with Disabilities Athletics,
   Physical Fitness & Recreation Carnegie Mellon ID Cards
   and Services Cohon University Center
   Copying, Printing & Mailing Division of Student
   Affairs Domestic Partner Registration Emergency
   Student Loan Program Gender Programs &
   Resources Health Services
   Dining Services
   The HUB Student Services Center ID Card Services
   Leonard Gelfand Center LGBTQ Resources
   Multicultural and Diversity Initiatives Opportunities
   for Involvement Parking and Transportation Services
   SafeWalk
   Survivor Support Network Shuttle and
   Escort Services Spiritual Development
   University Police
   Student Activities University Stores
Community Standards, Policies and Procedures  Alcohol and Drugs
Policy
AIDS Policy
Bicycle/Wheeled Transportation Policy  Damage to
Carnegie Mellon Property  Deadly Weapons
Discriminatory Harassment  Disorderly Conduct
Equal Opportunity/Affirmative Action Policy  Freedom of Expression
Policy
Health Insurance Policy  Immunization
Policy  Missing Student Protocol  Non-
Discrimination Policy  On-Campus
Emergencies  Pets
Political Activities  Recycling Policy
Riotous and Disorderly Behavior  Safety Hazards
Scheduling and Use of University Facilities  Sexual Harassment
and Sexual Assault Policy  Smoking Policy
Student Accounts Receivable and Collection Policy and Procedures  Student Activities
Fee
Student Enterprises
Workplace Threats and Violence Policy  Statement of

Assurance

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