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Chapter 1

Introduction

This guide to graduate study in the Department of Computational and Applied Mathematics contains information about exams, monetary support, required and recommended courses, and regulations and rules for the various degree programs. It is intended to supplement the General Announcements, by providing a more detailed description of the CAAM graduate program.

This handbook is the result of an ongoing attempt by the faculty to codify and make readily available to students the rules, requirements, and general approach to graduate education of our department. Please do not hesitate to let us know about areas that need clarification or strengthening.

—The Graduate Committee
Department of Computational and Applied Mathematics, 2003-2004

William W. Symes, Chair

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Staff Assignments:

Fran Moshiri is responsible for budgetary matters and accounting, as well as overall administration of the Department. Her office is in 2109 Duncan Hall.

Daria Lawrence is, among other things, our Graduate Secretary. She handles graduate matters such as registration, payroll, announcing and administering exams, and providing information on policy, procedure, and required paperwork for Ph.D. candidacy and graduation. Her office is in 1079 Duncan Hall.

Ginger Wright handles expense reimbursements and performs various administrative duties. She is in charge of room/classroom reservations for meetings, textbook and desk copy orders and other academic matters that are not handled by Daria. Her office is in 1078 Duncan Hall.

Ivy Gonzalez is our Webmaster. She is in charge of the department web pages, technical reports library and other departmental publications and document productions. You can e-mail her with any additions to, changes to, or questions about the departmental website. Her office is in 2108 Duncan Hall.

Eric Aune is the information systems administrator assigned to CAAM and STAT. His domain includes the CAAM research network (mostly Sun SparcStations and Linux workstations) and the office computing equipment. Any hardware and/or software problems with the departmental computer system should be reported to Eric forthwith.
CAAM Committees:

Computing Committee:

- Yin Zhang, Chair
- Matthias Heinkenschloss

Graduate Committee:

- Yin Zhang, Chair
- Liliana Borcea
- Mark Embree

Undergraduate Committee:

- Steve Cox, Chair
- Mark Embree

Course Committees:

1. Analysis:
   - Liliana Borcea
   - Steven Cox
   - Matthias Heinkenschloss
   - Williams Symes

2. Numerical Analysis:
   - Mark Embree
   - Mathias Heinkenschloss
   - Dan Sorensen
   - Richard Tapia
   - Yin Zhang

3. Computational Science:
   - Steve Cox
   - Mark Embree
   - Michael Fagan
   - Dan Sorensen
   - William Symes
Other Departmental Services:

Library Liaison: Mark Embree

Colloquium: Steve Cox, Chair
Chapter 2

Getting Started

Arrival: The first thing to do when you arrive on campus is to see Daria Lawrence, the Department Coordinator, in her office, 1079 Duncan Hall. She will explain the process of getting an ID card and a parking sticker, tell you when your first paycheck will arrive, and otherwise smooth your adjustment to campus life.

The Monitor System: The graduate committee assigns a faculty member to each of you to act as your monitor. You will meet with your monitor early in each semester to discuss curriculum choices, examinations, and so forth. You will have a faculty monitor throughout your graduate career. After you have acquired a thesis advisor, the advisor will take over the monitor role.

Graduate students normally register during the first week of classes. Obtain a registration form from Daria Lawrence. You will need the signature of your faculty monitor to file the registration form. The monitor will help you to make sure that your choices and plans are in tune with the various requirements for your degree program.

Note that you can add courses after the first week — indeed until the end of the 2nd week you can add a course for free, and thereafter until the fourth week of classes (this year) for a nominal fee. You can drop classes until the tenth week of the semester. Consult your academic calendar for exact dates. Therefore, the schedule you make up in the first week is not chiseled in stone and can be adjusted for quite a while. Of course the semester is only 15 weeks long, so you don’t want to take too long to settle your choices. Your monitor and the course instructor will approve any drop or add.

The Entrance Interviews: The first semester is special – you are getting acquainted with us, and we with you. To speed this process along, we schedule interviews for you with two committees of professors. This takes place the Thursday of orientation week (the week before classes begin). These two committees will discuss your background in
mathematical and numerical analysis, and in computing, respectively. Based on what they learn from the interviews, the committees will recommend initial coursework; this recommendation will be passed on to your monitor. Particularly well-prepared entering students may be advised to have a go at one or both qualifying examinations (see Chapter 5 for more on this). Most importantly, some of the faculty will get a chance to chat with you, and learn a bit more than was possible during the admission process about what you have learned and what ideas you have about your course of study at Rice.

Coursework: In the fall of 1995, CAAM instituted a system of required courses to which students must conform. That curriculum has been revised for the students entering in the Fall of 2002 and beyond. The required course system is described in Chapter 4. Your other course choices will depend on your interests. The required course list for students who entered in 1995 or later includes courses from all areas of concentration in CAAM. We also encourage you to take graduate-level courses in other departments, for example the Mathematics and Computer Science Departments. Outside courses (at the graduate level) will count toward the semester hour requirement of your degree. The only restriction applies to non-thesis (“professional”) Masters in Computational and Applied Mathematics candidates, who may count only two courses outside the department toward the degree. See the General Announcements for more details.

Some entering students have acquired enough background that they have no need for our introductory courses. However, for most students, the introductory courses are worthwhile, and for a few, even deeper background coursework is advisable.

Computers: Access to computers is essential for graduate study in CAAM, and each graduate student has access to two computer systems during their stay at Rice.

Every graduate student whose courses require computational work is entitled to an educational computing account through Owlnet, a network of Unix workstations with labs in various campus locations. Owlnet is specifically intended for coursework use. To sign up, go to the help desk in the Mudd Building, and ask for directions on getting an Owlnet account. You can also apply online at http://apply.rice.edu. They will also tell you where the Owlnet labs are located. Note that the Owlnet accounts are per course; if you cannot point to a course in your current schedule, which requires computing assignments, you may well have trouble securing an Owlnet account. Since most CAAM courses require computing (eg. 420, 452, 453, 454,...) this restriction should not be much of an impediment.

Every graduate student is also assigned an account on the departmental computing system, on arrival at Rice. The CAAM system consists of several file servers, desktop workstations and Xterminals in offices, and one public lab (3132 Duncan Hall); administrative computers (PC’s); and peripherals (printers), linked by Ethernet and to the outside world through the campus fiber optic backbone. Software includes Matlab, Maple, Web browsers, $\TeX$ in various flavors, alternative compilers (eg. GNU), and much more.

Research groups within the department maintain several high performance systems, which are available for use by members of these groups. At the moment these include several PC or DEC Alpha clusters (“Beowulf” systems), an SGI Origin 2000
shared memory multiprocessor, and a Sun Enterprise shared memory multiprocessor. Further, a large number of additional on and off-campus high performance systems are available through our associations with various centers, institutes, and national laboratories.

**English proficiency and technical writing:** Ability to write and speak English competently is *essential* for successful academic work at Rice, and in fact has become essential for scientific careers worldwide. We reinforce our commitment to fostering speaking and writing skills in the following two ways:

1. We require that all non-native English speakers whose TOEFL scores are near or below the official admission criterion (currently 600) should 1) retake the TOEFL and 2) enroll in an ESL class for at least one semester. If you are required to take these steps, you *must* do so to receive your stipend.

2. We strongly recommend that *all* graduate students participate in the thesis writing groups organized by the Cain Project. The Cain Project, directed by Professor Driskill in the English department, aims to raise the level of writing competency throughout Rice, but particularly in science and engineering. The thesis writing groups have been extremely helpful for those students who have participated over the last several years. As you might guess, you should be involved in writing a project-master’s or Ph.D. thesis or thesis proposal to participate.

**And So On…** Other helpful information on life as a graduate student can be found in the Graduate Student Association (GSA) yellow pages. The URL for GSA is:

http://www.ruf.rice.edu/~gsa/yellow-pages/

You will also want to check out the library (Fondren Hall) and Valhalla, the graduate student pub. The Rice University Student Handbook also contains a wealth of useful information.
Chapter 3

Financial Support

Rice is somewhat unusual in that relatively few graduate students support themselves by teaching. Almost all CAAM graduate students receive stipends and tuition, either from the university or from an external research grant awarded to a CAAM faculty member. Thus, for most of our students, the chief business of graduate school is preparing for and learning to carry out research in computational and applied mathematics.

A limited number of teaching assistantships are available to CAAM students who wish to acquire teaching experience. Since some evidence of teaching competence is virtually a prerequisite for entry-level academic positions, those students wishing to eventually become professors should take advantage of this opportunity to enhance their vitas in this important way. The TA program has grown considerably in the last few years and further change is expected. Please see the Graduate Committee chair for up to date information on teaching opportunities and requirements.

The Office of Graduate Studies supports most incoming Ph.D. students during the first year of studies, and a few in later years. This support includes a stipend and tuition. At the beginning of each year additional payments for fees, health insurance, and parking to name a few are required, usually amounting to a few hundred dollars (typically around $475.00).

In return for university support, the department asks that you perform some service, usually in the form of grading homework and exams for courses. At the beginning of each semester, the graduate committee assigns most graduate students as graders to various courses. Grading is an important responsibility and is NOT to be taken lightly. Failure to perform your grading duties adequately may jeopardize your future support. If for some reason you feel unable to grade the course you have been assigned, inform the graduate chair so that he or she can attempt to reassign you.

Beginning in the academic year of 2003-2004, stipends for first year students cover their entire first year, from August 16 to August 15 of the following year. In virtually all cases, stipends funded by research grants also cover the full year, not just the
academic year. Graduate study in CAAM is usually a full-time, year-round activity! Summers are extremely valuable work time — the opportunity to perform research without the distractions of coursework, grading, etc.

If you wish to absent yourself from Rice during the summer, either to take on an internship or for another activity, please inform the Department Coordinator as early as possible so that good use can be made of the stipend funds that you do not need.

Some university funds may be available to support students in subsequent years of graduate study. However, in general, students in our department obtain their support from research grants after the first year. The opportunity to do research is an integral part of your graduate training. You are responsible for identifying this opportunity, i.e., deciding which of the faculty you wish to work with, and approaching him/her about support (and a project!). While the department is not in a position to guarantee that you will find a research assistantship with one of the faculty, CAAM has been very successful in placing students with professors throughout its 30+ year history. The professors always have projects underway; therefore, more often than not, they are looking for research assistants. Since our faculty has been vastly more successful than the average math department in raising research money, very few students have had any trouble at all finding an intellectual berth with a stipend. Your coursework over the first two or three years will introduce the professors to you; likewise it will also introduce you to the professors. Enthusiastic participation in your early classes is by far the best way to find a faculty member (or to have him/her find you) who will direct your initiation as a scientist to your mutual benefit.

As a matter of University policy, Rice does not offer financial support to non-thesis (“professional” or MCAM) students. Accordingly, transfer from the Ph.D. program to the non-thesis master's program implies repayment of any financial aid received from Rice. This restriction does not apply in case of transfer to the thesis master’s program (M.A. degree). In years past, a (very) few students have chosen to make such a transfer as a way of leaving the Ph.D. program without a Ph.D. but with a master’s degree. Students who choose to transfer from the Ph.D. program to the M.A. (master’s with thesis) program will not be subject to repayment of previous financial aid.

If you are in need of financial aid beyond whatever the department has arranged for you, you may contact the Financial Aid office for information about loan programs for graduate students.
Chapter 4

The CAAM Graduate Curriculum

Computational and Applied Mathematics is a rapidly evolving and essentially interdisciplinary field. The most fascinating work in CAAM often involves surprising combinations of ideas from various parts of mathematics, statistics, computer science, physical sciences, engineering, as well as many other disciplines.

In the spring of 1994, CAAM faculty members established a core curriculum designed to ensure breadth of exposure to all areas of computational and applied mathematics, as represented by the Rice faculty, and depth of preparation in a disciplinary area. Both the core and the disciplinary curricula evolve as faculty and student interests change. During spring and summer of 2002, CAAM faculty undertook a major revision of the course structure, intended to streamline and rationalize the introductory and intermediate offerings, and to permit the faculty to offer more advanced courses in their research specialties.

The current curriculum consists of (i) five required courses, of which every CAAM Ph.D. student must complete; (ii) five distribution courses of which CAAM Ph.D. students must complete four; and (iii) elective courses. Both the five required courses and four distribution courses must be completed before a student advances to Ph.D. candidacy status.

These requirements apply to students admitted to the Ph.D. program in Fall 2002 or later. Students admitted earlier than Fall 2002 will complete the requirements described in the handbook for their entrance year, using currently offered courses as suggested by their monitor/advisor and approved by the Graduate Committee chair.

In some cases, these requirements may not be appropriate, for example because of prior, equivalent course work. The graduate committee will consider such exceptions as they arise. Our intent is not to construct rigid constraints, but rather to ensure that every CAAM Ph.D. has a broad grounding in applied mathematics. The course of study described here should accomplish this goal for almost all CAAM students, insofar as it can be accomplished at Rice.
Introductory Courses

**Purpose:** To expose each CAAM student to the range of computational and applied mathematics as represented by the faculty, and to serve as the foundation for all further work.

**Timing:** Students should attempt to complete the required courses within the first year of graduate study; however, in any case, these courses must be completed prior to advancement to Ph.D. candidacy.

**Exceptions:** In some cases, an alternative selection of courses might suit a student’s needs better than the required list, for example as a result of previous study. A student may develop an alternative program of coursework with the help of a faculty member and present it to the Graduate Committee for its approval. The alternative course of study should respect the intent of the required list by achieving comparable breadth. An approved copy of your curriculum should go in your grad student file.

**Introductory Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAM 401</td>
<td>Analysis I</td>
</tr>
<tr>
<td>CAAM 402</td>
<td>Analysis II</td>
</tr>
<tr>
<td>CAAM 420</td>
<td>Computational Science I</td>
</tr>
<tr>
<td>CAAM 453</td>
<td>Numerical Analysis I</td>
</tr>
<tr>
<td>CAAM 454</td>
<td>Numerical Analysis II</td>
</tr>
</tbody>
</table>

Distribution Courses

**Purpose:** To provide further exposure to a wide range of topics and ideas; and to guide the beginning of concentration on a specialty.

**Timing:** Four out of the eight distribution courses should be completed during the first three years; in any case, this requirement must be completed before advancement to Ph.D. candidacy.

**Exceptions:** same as for the required courses.

**Distribution Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAM 415</td>
<td>Mathematical Neuroscience</td>
</tr>
<tr>
<td>CAAM 436</td>
<td>Partial Differential Equations of Mathematical Physics</td>
</tr>
<tr>
<td>CAAM 452</td>
<td>Numerical Methods for Partial Differential Equations</td>
</tr>
<tr>
<td>CAAM 460</td>
<td>Optimization Theory</td>
</tr>
<tr>
<td>ELEC 531</td>
<td>Digital Signal Processing</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>STAT 431/2</td>
<td>Mathematical Statistics I/II</td>
</tr>
</tbody>
</table>
Intermediate Topics Courses

**Purpose:** Complete preparation for research in one of the CAAM disciplines.

**Timing:** Throughout graduate study; but concentrated in the first three years.

**Preparation and Exceptions:** Enrollment in these courses requires completion of one or more required or distribution courses, or the equivalent. Program for each student developed in consultation with advisor(s). Some courses in other departments require preparation beyond what is outlined here.

**Intermediate Courses**

- CAAM 464 Numerical Optimization
- CAAM 520 Computational Science II
- CAAM 540 Applied Functional Analysis
- CAAM 551 Numerical Linear Algebra
- CAAM 552 Partial Differential Equations
- COMP 421 Operating Systems and Concurrent Programming
- COMP 422 Parallel Programming
- COMP 425 Computer Systems Architecture
- ELEC 695 Advanced Digital Signal Processing
- MATH 425 Real Analysis
- STAT 486 Methods in Computational Finance
- STAT 531/2 Advanced Mathematical Statistics I/II

**Topics Courses:** In addition, each research group offers topics courses (numbered 6XX), which vary in number and content according to faculty interest and student demand. These courses present advanced material in CAAM research areas, and are often structured as seminars.
Chapter 5

The Masters Thesis and Qualifying Examination for Admission to PhD Candidacy

Advancing to PhD candidacy requires satisfactory performance on two Qualifying Examinations (Analysis and Linear Algebra and Numerical Analysis) and satisfactory completion and defense of a Master’s Thesis.

The Qualifying Exams: The Analysis and Linear Algebra exam is based on material taught in CAAM 401/402. The Numerical Analysis exam is based on material taught in CAAM 453/454. These two or three-hour exams will be administered twice per year – during finals week of the spring term and in the week before classes in the fall term. Students will normally take CAAM 401/402 and CAAM 453/454 in their first year. They then take the Qualifying Examinations during finals period of the spring semester of their first year. Only one retake is permitted. This typically takes place in the first week of classes in the following fall semester. The retake is also a two or three-hour written exam.

Well-prepared students may be invited by their entrance interview committees to attempt one or both exams. Failure to pass either exam when so invited will be without penalty; a fail result will simply be discarded. The student will then be required to take the corresponding course sequence (401/402 and/or 453/454) and take the exam again in the spring, as if for the first time.

These exams will have the same scope and nature as final exams in the respective courses. However, they will be administered only to CAAM graduate students and will have no bearing on the course grades. The exams are open both to CAAM graduate students who have entered with a declaration that the PhD is the degree sought, and to others who wish to enter the PhD program.
The Committees: Each of the two basic graduate sequences (401/402 and 453/454) will be overseen by a committee of present and former (and possibly future) instructors, who will author the respective exams. The current course instructors will participate in the design of the exams, but the end product will be the work of course committees. The course committees will be listed in the Grad Handbook each year. Students are welcome to consult anyone on the committee about the exams and their contents.

Students facing the Qualifying Exams are strongly encouraged to form study groups to present course material to each other, to tackle homework problems as well as unassigned problems and old exams, and in general, take an active role in making this fundamental material their own.

Masters Thesis: A student should complete and defend their Masters Thesis by the end of the spring semester of their second year. A committee headed by a thesis advisor will supervise the thesis. Ordinarily the student will take three hours of thesis credit in the spring semester of the second year to provide sufficient time to complete the thesis. Thesis topics and scope will be agreed upon between the student and their thesis advisor. It will usually be chosen to make the likelihood of completion in the suggested time frame as high as possible. By the end of the fall semester in the second year, the committee should be constituted and the topic chosen. These choices are to be reported to the Chair of the Graduate Committee and the Graduate Secretary. The thesis committee will assign to the defense one of three grades: (1) satisfactory, PhD (2) satisfactory, MA or (3) fail. These grades, like the pass/fail in the Qualifying Exams, represent the judgment of the faculty as to the suitability of the student to continue in the PhD program.

The faculty will meet at the end of the spring semester, if necessary at other times as well, to review and confirm results of both Qualifying Exams and MA Thesis Defenses. Those who have passed the Qualifying Exams and received “satisfactory, PhD” in the MA Thesis Defense will receive the MA degree at the immediate following commencements. They will then be invited to continue in the PhD program – complete the requirements for candidacy; namely the writing of the PhD thesis proposal and its defense (MA thesis defense). Those who receive a grade of “satisfactory, MA” will receive the MA degree at the immediate following commencement, but will not be invited to continue in the PhD program, regardless of success in the Qualifying Exams. A failure in the MA thesis defense will result in no degree being awarded and no invitation to continue being issued.

The PhD Thesis: The PhD Thesis Proposal may be an extension of the MA Thesis or may be completely independent. Ordinarily the proposal will be a separate document and its defense a separate exam. In exceptional cases, the student’s committee may decide to consider the Masters Thesis (with grades of “satisfactory, PhD”) as also a successful PhD Thesis Proposal Defense, with paperwork to that effect. This option requires assent of the Graduate Committee and should be cleared with the Graduate Committee well before
that defense. It also implies that the masters thesis committee has agreed to serve as the PhD thesis committee, as it will play that role in the defense as well.

**Exceptions:** Exceptions to these rules will be handled on an individual basis according to the grievance procedures outlined below. Amongst these exceptions is delay in the completion of the Masters Thesis. Such extensions should be requested in a letter to the graduate committee stating the reasons for the extension (beyond the second semester of the second year). The student’s MA thesis advisor will be asked for concurrence in this particular exception. For example, it may in some cases be reasonable to extend the date of the MA Thesis Defense if it has been agreed between student, MA thesis committee, and Graduate Committee that the MA Thesis will do double duty as a PhD Thesis Proposal. However, the student and thesis committee should take account of the risk that the added time and effort may not lead to PhD candidacy.

**Grievance:** All requests for exceptions or variances from the policies outlined above should be addressed to the Graduate Committee and delivered to the Chair of this committee. Grievance letters should state precisely what exception or variance is requested and detailed reasons given to support the request. Either the Graduate Committee or the full faculty will decide the issue, as appropriate.
Appendix

CAAM Policy on Student Computing\(^1\)

The CAAM department provides computing resources to students for the purposes of research and education. The acquisition, operation and maintenance of the computing resources are supported by university funds and faculty research funds. This policy provides students with guidelines on proper usage of the computing resources. Any doubts about appropriate usage should be resolved by query to the System Administrator or the faculty Computer Committee.

1. Who can have accounts on the CAAM system: All graduate students in the MA, MCAM, and PhD degree programs. New graduate students should fill out a form, available from the department coordinator and/or graduate secretary, to request the creation of new computer accounts.

Accounts for undergraduate students or non-CAAM graduate students who are involved in a faculty-sponsored research or educational project can be requested by a faculty sponsor. To obtain such an account, a student must submit a request form with the signature of a faculty sponsor.

\(^1\) Updated August 2002
2. Students may use office desktop equipment to

- read and write email
- create and maintain a personal web page
- browse the Web for educational or research purposes
- log in to Owlnet for computational coursework
- perform teaching functions (grading, TA work, etc.)
- perform research on faculty-led projects (includes thesis research)

In all cases research-related use has priority.

3. Students may use non-desktop departmental equipment (printers, scanners, computing and file servers, ...) to

- perform research on faculty-led projects (includes thesis research)
- perform teaching functions (grading, TA work, etc.)
- store small amounts of information unrelated to their research projects, including email and a personal web page.

4. Printing of personal material is permitted, as is copying of personal material, and for the same fee (currently $0.06/page) so long as such use does not interfere with research and education use. Students will keep track of personal printing and copying, and pay any such charges periodically (monthly is good) in the department office.

5. Students may not use departmental equipment to

- play computer games, do online chats, and things of similar nature unrelated to the educational and research missions of the university;
- store, print, or process significant amounts of information of purely personal nature or unrelated to the educational and research missions of the university, without reimbursing the department as outlined in item 4.

6. Termination of computer accounts: A CAAM graduate student's account will be terminated one year after the student's enrollment as a CAAM student has ended. Former students who continue their collaboration with the faculty after graduation can retain their accounts upon the request of a faculty member. The account for an undergraduate student or a non-CAAM graduate student will be terminated six months after the student's involvement in a faculty-sponsored project has ended.

7. In addition to the specific policies outlined above, students are bound by the Rice computing policy, see:

8. The system administrator will respond to infractions of these policies in consultation with the Computer Committee. Response to serious infraction may include closing of the guilty party's account.