



COMPUTER SCIENCE GRADUATE STUDENT HANDBOOK



Revision: 2025.02

Department of Computer Science

School of Engineering and Applied Science

Rice Hall and Olsson Hall

University of Virginia

Charlottesville, VA 22904

Changelog

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- Feb 2025: Converted to Latex based on 9/16/2024 (Google doc). Minor format adjustment.

Contents

1 1. Introduction

2 Welcome to the Computer Science Graduate Program at the University of Virginia. This handbook has been
3 designed to help students (and faculty) navigate the policies, procedures and requirements for Master's and
4 PhD degree programs in Computer Science. It contains information about degree programs, financial support,
5 academic regulations and procedures, and information for international students. It is intended to *supplement*
6 (not replace) the *School of Engineering and Applied Science (SEAS) Graduate Degree Requirements* and *UVA*
7 *Graduate Record*.

8 General information about the Computer Science Graduate Program can be found on the Department's web
9 site. The Computer Science Graduate Student Group (CSGSG) is another source of information. Refer to
10 Appendix A to find URLs for all information resources and forms mentioned herein. Appendix B is our current
11 policy on absences for Graduate Teaching Assistants (GTAs) and Graduate Research Assistants (GRAs).
12 Appendix C describes the process we use in the rare instance where a GRA's performance is unsatisfactory.

13 On rare occasions and with good reasons, a policy or requirement can be waived by the Master's Graduate
14 Program Director (MGPD) or the PhD Graduate Program Director (PGPD). When the text below mentions
15 the Graduate Program Director (GPD), then it refers to either the MGPD or the PGPD.

16 The Department of Computer Science offers three graduate degrees in the School of Engineering and Applied
17 Science (SEAS).

- 18 • *Doctor of Philosophy (PhD)*. The PhD program is designed for students interested in academic
19 positions in colleges/universities and/or research positions in industrial or commercial labs.
- 20 • *Master of Science (MS)*. The MS degree introduces students to research at the graduate level
21 with a focus on proposing, executing, and then documenting a research experience with a
22 formal, written thesis and oral presentation.
- 23 • *Master of Computer Science (MCS)*. The MCS degree is a graduate professional degree
24 with an emphasis on coursework. It enhances the knowledge obtained in an undergraduate
25 program by providing students with broader knowledge and a deeper technical understanding
26 of Computer Science concepts.

27 **For reference:**

- 28 • Master's Graduate Program Director (MGPD): Prof. Felix Lin, xl6yq@virginia.edu
- 29 • PhD Graduate Program Director (PGPD): Prof. Felix Lin, xl6yq@virginia.edu
- 30 • Ombudsperson: Prof. David Evans evans@virginia.edu Rice 507 and Prof. Nada Basit
31 basit@virginia.edu Rice 405
- 32 • Graduate Coordinators: Jai Maupin, jm3xe@virginia.edu, and Marion Hight, qnx5re@virginia.edu.
- 33 • CS Department Chair: Sandhya Dwarkadas, bay7xc@virginia.edu , Rice 521
- 34 • CS Director of Operations: Debbie Rose, dcr4f@virginia.edu , Rice 526
- 35 • Chair of Graduate Admissions Committee: Prof. Matt Dwyer, md3cn@virginia.edu , Rice
36 424
- 37 • SEAS Director of Graduate Programs: Dr. Amy Clobes, amc5hu@virginia.edu Thornton
38 A109

39 **2. Master's Degrees**

40 **Master of Science (MS)** degree: a student completes coursework and conducts independent research
41 overseen by a professor which requires a written thesis and oral defense; the level of research effort is
42 commensurate with **two** typical academic courses.

43 **Master of Computer Science (MCS)** degree, which either focuses on *all coursework* (the student performs
44 no independent research) or involves a *project* (student conducts independent research overseen by a professor
45 where the level of research effort is commensurate with **one** typical academic course).

46 **Note:** A Master's Degree student is assigned an academic adviser upon entering the program. If the student
47 selects either an MS or MCS (project) degree, their research adviser then becomes the academic advisor.

48 **Terminology.** In this document, "Master's degrees" refer to MS, MCS (project), and MCS (coursework);
49 "MCS" refer to both MCS (project) and MCS (coursework).

50 **2.1 Master's Degree Requirements**

51 **MS degree.** Please refer to the University's Graduate Record for degree requirements for the **MS** in
52 Computer Science:

53 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5367>

54 The MS Examining Committee requirements can be found in the University's Graduate Record:

55 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5418#committee-requirements>

56 **MCS degree.** Please refer to the University's Graduate Record for degree requirements for the MCS degree:

57 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5367>

58 **2.2 Master Teaching Assistant Positions (MTA)**

59 Depending upon demand, Master's students (typically those in their second year) may have the opportunity
60 to apply for a limited number of *Master Teaching Assistant (MTA)* positions. An MTA is an excellent way to
61 gain teaching experience and supplement income. MTA positions pay an hourly wage with no other benefits.

62 MTAs typically help a professor by grading assignments and exams, holding office hours, etc. It is UVA
63 policy that all graduate TAs whose first language is other than English must first take the SPEAK test to
64 assess their fluency with oral English and to determine the types of actions which they may perform. See
65 section 4.2.

66 **2.3 En Route Master's Degree**

67 A current PhD student can obtain a CS Master's degree along the way to the PhD degree by completing all
68 the requirements for the Master's degree. A PhD student terminating the PhD program before graduation
69 can also obtain a Master's degree if he or she has completed all requirements for the degree. In either case,
70 confer with the MGPD and the Graduate Student Coordinator.

71 **2.4 Typical Timeline**

72 In description below, "Master's students" refer to students of MS, MCS (project), and MCS (coursework);
73 "MCS students" refer to student of MCS (project) and MCS (coursework).

74 Most students finish within three or four semesters. However, the official deadline to complete a degree is 5
75 years for an MS student and 7 years for an MCS student. In response to the COVID-19 pandemic, students
76 registered in the MS program in Spring 2020 have a deadline of 6 (rather than 5) years; the deadline for MCS
77 students is unchanged.

78 UVA policy is that all students whose first language is other than English who wish to serve as an MTA or a
79 GTA must take the UVELPE Oral (formally known as SPEAK) test upon arrival.

80 First semester (Fall): All first-semester Master's students take CS 6190 (Computer Science Perspectives) for 1
81 credit and 4 graded, 3-credit graduate courses (total 13 credits). MS and MCS (project) students should use
82 this semester and CS 6190 to learn about the active research projects in the department, discuss potential
83 MS/MCS research ideas with prospective faculty research advisors, and finalize a plan and research advisor
84 for the MS or MCS (project) degree.

85 Second semester (Spring): MCS students typically take 4 graded courses (12 credits). MS students typically
86 take 3 graded classes and 3 credits of CS 8999 (Thesis) with their thesis advisor.

87 Summer: Students typically are away on internships, potentially facilitated through the SEAS *Center for*
88 *Engineering Career Development*. International students use the Curricular Practical Training program
89 (CPT) organized through the UVA *International Studies Office* (ISO) and the *International Students and*
90 *Scholars Program* (ISSP).

91 Third semester: Master's students typically take the remaining courses necessary to fulfill their academic
92 requirements. An MS student typically takes 3 credits of CS 8999 (Thesis) with the research advisor in this
93 semester (in addition to the 3 credits of CS 8999 taken in the previous Spring semester). An MCS (project)
94 student typically takes CS 7995 (Supervised Project Research) with the research advisor in this semester.

95 Students must use SIS to apply for graduation with a Master's degree at the start of the semester during
96 which they expect to graduate – usually no later than 1 October (Fall), 1 February (Spring), or 1 June
97 (Summer). Students should check their completion of the requirements using the Academic Requirements
98 tool within the *Student Information System* (SIS). Two special situations may also occur toward the end of
99 Master's studies:

100 1. If a Master's candidate changes their mind and wishes to defer graduation for another semester,
101 the student should consult with the MGPD for advice and assistance.

102 2. If a Master's student wishes to pursue a PhD in UVA CS, it is necessary for the student to
103 identify and confirm with a CS professor that he or she is willing to fund and advise the
104 student's academic career. The Master's student should then consult with the Chair of the
105 CS Graduate Admissions Committee (see Section 1) to determine the necessary forms and
106 procedures used to apply to our PhD program. Once these application forms have been filed,
107 the CS Graduate Admissions Committee will determine whether to offer admission to the
108 PhD program.

109 3. PhD Degree

110 There are a number of steps that are required for a PhD degree, including coursework (section 3.1), possibly
111 transferring courses from another University (section 3.2), finding an advisor via the first-year rotation
112 program (section 3.3), the PhD qualifying exam (section 3.4), forming a PhD Committee (section 3.5), writing
113 and presenting a PhD proposal (section 3.6), writing a PhD dissertation (section 3.7), presenting a public
114 defense of the dissertation (section 3.8), and completing four semesters of half-time work (or equivalent) as a
115 GTA (sections 3.9 and 3.10). A typical PhD timeline is described in section 3.9 and financial support options
116 are discussed in section 3.10.

117 **Terminology.** A person who has an undergraduate degree and who wishes to pursue a PhD is known as a
118 *PhD student* or a *doctoral student*. That person advances to the status of *PhD candidate* or *doctoral candidate*
119 after completing all coursework and passing the PhD Qualifying Examination.

120 3.1 PhD Coursework

121 Please refer to the Graduate Record for PhD degree requirements:

122 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5367>

123 **3.2 PhD Transfer Credit**

124 If a graduate student enters the CS PhD program *with a Master's degree in a computing field*, they will
125 receive 24 bulk transfer credits.

- 126 • At least 6 additional credits of graded, graduate-level CS coursework must be taken at UVA
127 (i.e., they cannot be transferred). A minimum grade of "B" is required.

128 If entering *without a Master's degree*, then a maximum of 6 credits of graded, graduate-level CS coursework
129 may be transferred. Transferred credits must not have been used to fulfill the requirements of any other
130 degree.

131 Whether any individual transfer course counts toward our PhD degree breadth requirements is determined by
132 the PGPD. Students are encouraged to take additional courses beyond those required for graduation.

133 Please refer to the *UVA Graduate Record* for more information:

134 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5418#transfer-credit>

135 **3.3 First-Year PhD Rotation Program**

136 Entering PhD students (but not including students who transfer into CS from another UVA department or
137 another institution's PhD program) are usually supported with a First-Year Fellowship during their first
138 academic year to enable students to investigate multiple potential research advisors and take CS graduate
139 classes. There are no other duties assigned to these fellowship students.

140 Effective Fall 2023, the rotation program will consist of two rotations instead of three. Rotation 1 will be the
141 fall semester's duration, and Rotation 2 will be the spring semester. This change is to better align with the
142 fall and spring semesters and credit hour registration.

143 Students will work with the faculty member who championed their PhD admission for the first rotation unless
144 the student reaches an agreement with another faculty member.

145 In each rotation, the student conducts a short research project with that professor, attends the professor's
146 group meetings, etc. The goal of a rotation is to help the student and professor determine if there is a good
147 match for the purpose of the professor directing the student's PhD research.

148 The typical schedule for each rotation is as follows:

- 149 • Early in a rotation (no later than week 4), through discussions with the rotation advisor, the
150 student is required to write a 2-page proposal to the rotation advisor that contains: what
151 they are doing for their project; why it is important; novelty over prior work by others aimed
152 toward solving the problem being addressed by the project; and how it will be evaluated.

- 153 • The middle weeks of a rotation are spent performing the activities described in the proposal.
154 The student should meet with the rotation advisor and/or members of the rotation advisor's
155 research group for design meetings, contingency planning, etc.

- 156 • Toward the end of the rotation (no later than week 9), the student should prepare a 4-5-page
157 final report in a workshop or conference submission style. In combination with this report,
158 the student must make a short oral presentation to the rotation advisor and/or members of
159 the rotation advisor's research group.

- 160 • Before the end of the rotation, if the student is interested in continuing with the same rotation
161 advisor in the next rotation, the student should prepare a new 2-page proposal for the advisor
162 that may – but is not required to – leverage the experience and results of the current rotation
163 for the next rotation.

164 Note that the first rotation advisor evaluates the quality of the research and research plan, and that evaluation
165 is used as input for the student's grade in CS 6190 Computer Science Perspectives (a required course).

166 Upon the completion of a rotation, there are three possibilities:

- 167 1. The student and professor agree to continue permanently, thus taking them out of the rotation
168 process. Then the research advisor (i.e., the rotation advisor) also becomes the student's
169 academic advisor.
- 170 2. The student and professor have not agreed to a permanent match, so the student remains
171 in the rotation program. The student provides a prioritized list of potential advisors with
172 whom they have discussed research opportunities. These preferences are used to match each
173 student with a research advisor for the next rotation. Note that even if the student and the
174 rotation advisor wish to continue for the next rotation, it is not guaranteed that this will
175 happen depending in part on the overall availability of rotation advisors.
- 176 3. If, at the end of the rotation, a student has not made a successful match, then the PGPD
177 and Department Chair will confer with the student regarding what steps should be taken.
- 178 For purposes of defining a first-year PhD student's academic advisor, the first rotation supervisor is the Fall
179 semester academic advisor, and the second rotation supervisor is the Spring semester academic advisor.

180 3.4 PhD Qualifying Examination

181 The *qualifying examination (quals)* is designed to evaluate a student's ability to pursue and successfully
182 complete graduate-level research. The qualifying examination consists of two parts: breadth (section 3.4.2)
183 and depth (section 3.4.3). The *breadth* portion of the exam helps students obtain broad, graduate-level
184 knowledge in several of the major areas of CS. The *depth* portion of the exam focuses on the student's ability
185 to pursue high-quality independent research and their ability to effectively communicate about research,
186 and requires the student to write a proposal, present it to their quals committee (section 3.4.1), and then
187 complete a nominally one-semester independent research project guided by the student's research advisor.

188 Students who have already passed their qualifying examinations in Computer Science at a previous institution
189 may petition the Graduate Program Committee for an exemption from the UVA CS qualifying exam upon
190 presentation of acceptable evidence (typically a letter from the previous department).

191 While the completion of the qualifying exam has no hard deadline, our expectation is that **by the end of**
192 **the student's third semester** the qualifying examination committee should be formed and approved by
193 the PGPD, and the form filed with the Graduate Student Coordinator. **By the end of the student's**
194 **fourth semester**, the breadth and depth portions of the qualifying examination should be completed.

195 3.4.1 Qualifying Examination Committee

196 ~~Each qualifying exam committee must have at least 3 UVA computer science (CS) faculty members, along~~
~~197 with an advisor or co-advisors, totaling four members (three CS faculty and one advisor).~~

198 ~~Each qualifying exam committee must have at least [] UVA CS faculty members, along with an advisor or~~
~~199 co-advisors, totaling [] members []~~

200 The committee must consist of at least the student's advisor or co-advisors and two additional CS faculty,
201 totaling at least three members and at least three CS faculty members.

202 CS faculty are defined as those with primary or secondary appointments in computer science. Faculty with
203 courtesy appointments in computer science do not count toward the required number of CS faculty members
204 on the committee.

205 The committee must have an explicitly designated chair who will direct meetings and ensure proper procedure.
206 The advisor(s) may not serve as the chair. The chair must be decided well before Phase 1 of the exam.

207 The student must form the committee prior to scheduling the qualifying exam and submit Doctoral Advisory
208 Committee form to the CS office.

209 ~~For a student entering with a master's degree, the committee should be formed as soon as the student and~~
210 ~~advisor agree on the research work to be accomplished.~~

211 The committee evaluates the student's research proposal, including the reading list selection. We expect
212 examinations to be conducted with the student, advisor and all committee members present. Exceptions to
213 his rule can be made in exceptional circumstances.

214 **3.4.2 Qualifying Examination Breadth Requirement**

215 To satisfy the breadth requirement, a minimum of one course in any four of six topical areas must be taken.
216 The list of courses that are allowed in each of the six areas can be found [CS degree programs page at the](#)
217 bottom of the Graduate Record: UVA CS Breadth Areas and Courses

218 **3.4.3 Qualifying Examination Depth Requirement**

219 The depth component of the qualifying examination proceeds in three phases. In phase one, students hold a
220 meeting with their committee members to gather advice concerning the proposed topic, work, reading list
221 and timeline. No written documentation of this meeting is required.

222 The depth component of the qualifying examination proceeds in two phases. First, the student prepares a
223 written and oral research proposal for an independent research project and presents this proposal to their
224 evaluation committee. Second, the student completes the proposed research, prepares a written and oral
225 project report, and presents the results to their evaluation committee. In both phases the committee provides
226 feedback and determines the phase outcomes.

227 The proposal process is intended to assist the student in the formalization of the research project and to
228 ensure that the student is not undertaking too much or too little work, and that prior work has been properly
229 examined and understood.

230 **3.4.3.1 Qualifying Examination Depth Proposal**

231 For the depth proposal the student prepares a written proposal document and oral presentation. The student
232 should propose a research project that can be completed in approximately one semester. The proposal must
233 also include a specific reading list (section 3.4.3.1.1).

234 Writing a qualifying examination depth proposal is an important step in the student's academic development.
235 To help develop the student's ability to propose new research, the proposal must *not* be a previously submitted
236 or published paper, or an existing paper that has been reformatted with minor edits (e.g., to recast work
237 already completed as if it were work to be performed in the future). The proposal *can* be based upon
238 individual or group research already accomplished if the proposal is for meaningful extensions of that work to
239 be performed solely by the student. The student shall disclose their papers that are related to the proposal
240 (including ones published, under review, or on arxiv) to the committee.

241 The quals depth proposal must have only one author (i.e., the student). While the advisor may help with
242 revisions, the proposal must ultimately represent the student's own efforts.

243 For the oral presentation the student must schedule a meeting with their qual evaluation committee. The
244 proposal defense is not open to the public. During the meeting, the student starts with a ~20-minute
245 presentation about the proposed work, followed by questions from the committee members about the proposed
246 work and the reading list.

247 The student should inform the Department Coordinator of their scheduled proposal [when they have scheduled](#)
248 [at least one week before](#) their Qual Proposal.

249 In preparation for the depth proposal, students are encouraged to communicate with their committee members
250 to gather advice concerning the proposed topic, work, reading list and timeline. No in-person meeting or
251 written documentation is required.

252 Phase ■■■ is the formal review of the proposal (written and oral) and reading list; however, this proposal
253 defense is not open to the public.

254 Phase ■■■ (the qualifying examination final report and presentation) is discussed in sections 3.4.5-3.4.7.

255 **3.4.3.1.1 Qualifying Examination Proposal Document**

256 **Qualifying Examination Research Proposal.** The student's proposal document should be sufficient
257 for the committee to evaluate the research quality of the proposed project. As such, it should contain the
258 following elements:

259 **Abstract.** An executive summary, no more than one-half page.

260 **Motivation.** What is the problem and why is it important?

261 **Hypothesis.** What is the hypothesis of the proposed research?

262 **Contributions.** What are the main ideas and why do they matter? In what way are these ideas
263 novel?

264 **Related work.** What is the relevant prior work and state-of-the-art in this area?

265 **Detailed research plan.** What specific goals or milestones will be completed during the
266 research project and how will they be implemented, designed, and evaluated? For projects with
267 a significant implementation component, give enough details of the features to be implemented
268 and the experimental setup involved for the committee to judge the feasibility of the proposed
269 work. For projects with a significant formal component, give enough details of the formalisms
270 used (e.g., proposed theorems, proof schemas, and logical frameworks) for the committee to judge
271 the feasibility of the proposed work. Note that the research plan must explain how the research is
272 to be evaluated (i.e., what are the metrics of success?).

273 **Summary and Future Work.** A short summary of the above, and identification of potential
274 future work.

275 The ordering of the sections above may vary depending on the committee's preferences. Many proposals also
276 include a section devoted to the work completed by the student prior to the proposal.

277 If as part of executing the proposed project results in significant deviations from the proposal, such changes
278 need to be discussed with the committee.

279 These committee meetings are informal and are intended to be helpful.

280 **Qualifying Examination Reading List.** The qualifying exam proposal should include a reading list that
281 the oral examination may cover. The student and advisor should prepare an initial reading list, which should
282 be included as an appendix in the proposal document. During the initial meeting, the committee may make
283 changes or additions to the reading list.

284 The reading list should include:

285 **Focus papers.** A small number of papers (typically two or three) representing the area's state of
286 the art. The student will be expected to know these papers in detail.

287 **Background readings.** Typically, a textbook and/or one or two book chapters or survey papers.
288 The student will be expected to have a firm command of the material covered in these readings,
289 as shown through general understanding and an ability to place the work in context.

290 **Related works.** The proposal (and later project report) bibliography comprises the rest of the
291 reading list. The student should understand the main idea of each such paper, why that paper is
292 cited, and its relevance to the proposed research.

293 **3.4.3.1.2 Qualifying Examination Proposal Outcomes**

294 the committee may request amendments or changes and set appropriate due dates or indicate weaknesses in
295 the proposal that must be addressed in the final report and presentation. The committee will also indicate
296 deadlines for any required revisions. The possible outcomes of the qual depth proposal are:

- 297 1. The student may proceed to phase two. In this case, the committee may request amendments or changes,
298 make changes or additions to the reading list, set appropriate due dates, and/or indicate weaknesses

299 in the proposal that must be addressed in the final report and presentation. The committee will also
300 indicate deadlines for any required revisions.

301 2. The student may not proceed to phase two and should re-attempt the proposal.

302 **3.4.3.2 Qualifying Examination Depth Defense**

303 The qualifying exam, conducted by the approved qualifying examination committee, consists of (1) verification
304 of the coursework that fulfills the *breadth* requirement, (2) review of the project's report written by the
305 student, and (3) a final public oral presentation of the research.

306 The qual exam depth defense requires the student (1) to write a project report about their qualifying exam
307 research and (2) complete an oral presentation.

308 Before the qualifying exam depth presentation can be scheduled, the CS staff must verify the student has
309 fulfilled the *breadth* requirement. The approved qualifying examination committee will then review (1) the
310 project's report written by the student, and (2) the final public oral presentation of the research.

311 **3.4.3.2.1 Qualifying Examination Depth Defense Report**

312 The student must prepare a written research report based on their research project.

313 Students must email their written report to all committee members (email is sufficient) at least 7 days before
314 the qualifying exam.

315 **3.4.3.2.2 Qualifying Examination Depth Defense Presentation**

316 The student must present their research project outcomes to their examination committee. Two hours should
317 be allocated for the presentation. The presentation begins with the student's ~30-minute overview of the
318 project, followed by questions from the general audience. The committee will ask questions about the research
319 project and about material from the reading list.

320 To prepare for the presentation, the student should be ready to answer questions about their depth area in
321 general and their research project in particular. The student should be:

- 322 • able to explain the main idea, conclusions, and relevance of any paper in their report's bibliography. The
323 student is not expected to be completely familiar with every detail of every paper in the bibliography.
- 324 • familiar with the papers from their reading lists. These papers represent the state-of-the-art in the
325 area, and the student will be held to a higher standard for these papers. Deep questioning regarding
326 them should be expected.

327 The presentation should use numbered slides. The student should distribute the presentation in electronic
328 form a few days in advance of the presentation or printed out and distributed at the oral examination itself to
329 the committee **the day before the defense presentation**. Providing numbered slides is a courtesy that helps
330 the committee follow the presentation and keep track of their comments.

331 The student's qualification exam presentation to the committee is open to the public and must be publicly
332 announced at least one week in advance by the Graduate Student Coordinator.

333 The student should work with committee members to find a time when all members can attend. The student
334 must also arrange for the Graduate Student Coordinator to publicize the time, date, place, committee
335 members, and abstract to the CS Department. The Graduate Student Coordinator will prepare and send the
336 qualifying exam forms to the committee the morning of the presentation.

337 At the end of the depth defense the committee deliberates and decides on an outcome.

338 **3.4.3.2.3 Qualifying Examination Depth Outcomes**

339 Based upon the student's final project report and oral presentation, the examination committee determines if
340 the student passed the depth portion of the qualifying exam. If the student's performance is not acceptable,

341 the committee may permit a second attempt, in which case the exam *must be re-taken within 60 days*
342 (excluding holidays or days when the University is not in session). At most two attempts are allowed.

343 Based upon the student's performance on both the breadth and depth components of the qualifying exam,
344 the quals committee decides if the student has passed the overall (breadth and depth) qualifying examination.

345 **3.5 PhD Committee**

346 For PhD SEAS general Committee requirements, please refer to the University's Graduate Record:
347 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5418>

348 A PhD student's PhD Committee evaluates the student's PhD dissertation and oral defense and must
349 consist of a minimum of five faculty members constituted according to the following rules. Membership must
350 include at least three Computer Science faculty members, at least one UVA faculty member from outside the
351 Computer Science department and at least one other member with expertise in the research area. (3 CS
352 faculty + 1 UVA faculty(outside CS) + 1 outside expert)

353 The Department recommends that one of the committee members be an expert from outside the University
354 (who should submit a biography in advance to permit prior approval by SEAS).

355 The PhD student's advisor must have read and approved the dissertation proposal document and the proposed
356 presentation before the Oral Examination is scheduled.

357 The Doctoral Advisory Committee form should be completed once the PhD Proposal Committee is formed
358 and submitted before the proposal defense. Students are encouraged to meet with each potential committee
359 member before scheduling the proposal to discuss the scope of their proposal.

360 **3.6 PhD Proposal**

361 A PhD student must develop a written dissertation proposal, created under the guidance of the student's
362 advisor(s). This proposal should be presented to the student's PhD Committee prior to performing extensive
363 research, to receive early faculty approval of the suitability of the proposed research. It is recommended that
364 the proposal be completed by the end of the third year.

365 **3.6.1 PhD Proposal Document**

366 The student's PhD proposal document *should have the same structure as the PhD Qualifying Examination*
367 *Proposal Document* (section 3.4.4) and should clearly and unambiguously convey the scope of the work and
368 the criteria for success. Proposals can also include a section devoted to the student's work thus far, although
369 this section is not formally required.

370 Proposal documents should not exceed 15 single-spaced pages (or 30 double-spaced pages). The bibliography
371 and any appendices (appendices are not required to be read by the student's committee) are not included in
372 this page limit. Significant departures from these guidelines must be approved in advance by the student's
373 proposal committee. The written proposal document must be submitted to the committee at least two weeks
374 in advance of the proposal presentation. Students are encouraged to follow the National Science Foundation
375 (NSF) grant proposal formatting guidelines.

376 **3.6.2 PhD Proposal Presentation**

377 The PhD Proposal Oral Presentation must be publicly announced at least *two weeks* in advance via the
378 Graduate Student Coordinator.

379 The PhD proposal meeting should be scheduled for 2 hours. The proposal presentation should be about
380 30-45 minutes, as the committee members are assumed to have read the proposal. After the presentation,
381 the committee members discuss the proposed work, ask questions, and offer suggestions or identify required
382 changes. The Graduate Student Coordinator will send "*Dissertation Proposal and Admission to Candidacy*"

383 and “*Engineering Dissertation Proposal Assessment*” form to the student’s committee the morning of their
384 presentation.

385 Students are encouraged to provide the committee members with copies of the slides used in the proposal
386 presentation. Slides can be distributed in electronic form a few days in advance of the presentation or
387 printed out and distributed at the presentation itself. Providing *numbered* slides is a courtesy that helps the
388 committee follow the presentation and keep track of their comments.

389 **3.6.3 PhD Proposal Outcomes**

390 After the proposal meeting, there are several possible outcomes:

- 391 • The proposal is accepted without changes.
- 392 • The proposal is not accepted until amendments to the written document are made and
393 approved by all committee members.
- 394 • The proposal is not accepted, and the student will need to write another proposal or modify
395 the work proposed.
- 396 • The proposal is not accepted, and the committee indicates that the student does not have
397 sufficient research potential to complete a dissertation in a timely fashion; in this case, the
398 student is subject to dismissal from the program.

399 Once accepted, the proposal is a binding document on the committee. If the student competently carries out
400 the work described therein, the committee will not reject the student’s PhD dissertation on the grounds that
401 too little has been done. It is not binding on the student, who is free to adjust the research plan. However,
402 there is no guarantee that research other than that outlined in the proposal adjusted will be of sufficient
403 depth and quantity to satisfy the PhD requirements: students adjusting research plans should thus confer
404 with their committees. Significant departures from the proposed work *must* be approved in advance by the
405 committee.

406 **3.7 PhD Dissertation**

407 The dissertation should convey the research hypothesis, research paradigm, and research results and then
408 defend the proposition that the results are valid and correct. The exact form of the dissertation can vary
409 across topics, but in general a dissertation will include the following elements:

- 410 • Presentation of the motivation, hypothesis, and contributions of the research.
- 411 • Placement of the work in the context of prior art.
- 412 • An explanation of how the proposed work was carried out.
- 413 • Where applicable, the experimental design of any experiments should be provided which
414 provides enough information for the reader to replicate the results.
- 415 • Conclusions drawn from the work and a discussion of future research directions suggested by
416 the project.

417 A dissertation should be a self-contained document. It should not assume that the reader has read the
418 corresponding proposal, so it should provide enough context that a reader who has read the proposal can
419 readily understand how the performed work fulfills the promises in the proposal. Parts of the proposal can be
420 included in the dissertation.

421 The written dissertation document must be submitted to the committee at least two weeks before the oral
422 defense.

423 **3.8 PhD Defense**

424 The dissertation defense, which must be announced publicly two weeks in advance via the Graduate Student
425 Coordinator, is an oral defense before the student's PhD dissertation committee and other faculty, students,
426 and visitors. Generally, a defense should be scheduled for at least two hours to allow for audience questions
427 and a post-presentation discussion by the committee.

428 Before the defense, students are encouraged to give committee members copies of the presentation materials
429 used in the oral defense. These materials can be distributed in electronic form a few days in advance of the
430 presentation or printed out and distributed at the defense itself. Providing *numbered* slides is a courtesy that
431 helps the committee follow the presentation and keep track of their comments.

432 A typical defense at UVA CS comprises the following components:

- 433 • Presentation. It should not exceed 45 minutes. During the presentation, questions from the
434 committee and other audience members are expected.
- 435 • Q&A. The committee and other audience raise questions for the candidate to answer.
- 436 • Deliberation. The committee members have closed-door discussion; the candidate and other
437 audience shall be excused.
- 438 • Announcement of the outcome. The committee chair notifies the candidate of the decision
439 and any requirements or comments.

440 The Graduate Student Coordinator will send the *Report on Dissertation or Thesis Final Examination* and
441 *Engineering PhD Dissertation Assessment forms* to the committee the morning of the presentation. The
442 student must also complete the *Survey of Earned Doctorates* and must submit the dissertation electronically
443 to LIBRA at the UVA Library.

444 **3.8.1 PhD Defense Outcomes**

445 Based upon the student's dissertation document and oral exam, the dissertation committee will either:

- 446 • approve the dissertation, indicating the student has passed the dissertation defense component
447 of the PhD degree, and fill out the forms indicating approval, or
- 448 • require amendments to the written dissertation and hold the evaluation forms until the
449 changes are made satisfactorily, or
- 450 • specify significant amendments to the dissertation to be followed by a new defense, or
- 451 • declare the work unsatisfactory and dismiss the student from the program.

452 Students should double-check their completion of their requirements using the Academic Report option
453 offered by the Student Information System (SIS) website.

454 To receive a PhD degree, students must apply for graduation using SIS at the start of the semester during
455 which they expect to graduate.

456 **3.9 Typical Timeline**

457 *If entering without a Master's degree:*

- 458 • First semester: Take graded, graduate-level courses, CS 6190, and CS 8999 with Rotation
459 One advisor.
- 460 • Second semester: Take graded, graduate-level courses and CS 8999 with Rotation Two advisor.
461 Match with a research advisor.
- 462 • Third semester: Take remaining coursework. Form a qualifying examination committee and
463 submit form. Work with your research advisor (CS 8999). Work as half-time TA and take
464 CS 8897 (Graduate Teaching Instruction).

- 465 • Fourth semester: Work as half-time TA and take CS 8897 (Graduate Teaching Instruction).
466 Continue working with research advisor (CS 8999). Take Qualifying Examination to fulfill
467 depth requirement and certify completion of the breadth requirement.
468 • Fifth semester and beyond: If the Qualifying Examination has been successfully completed,
469 then take CS 9999; otherwise take CS 8999. Prepare and defend the Dissertation Proposal.
470 Execute the work proposed for the dissertation. Finally, write the dissertation and pass an
471 oral defense.
472 • Submit dissertation electronically to LIBRA and submit the survey of earned doctorates.

473 *If entering with a Master's degree:*

- 474 • Present appropriate documentation (e.g., transcript) for your Master's degree in a computing
475 field. SEAS will make a "bulk transfer" of 24 credits (regardless of the actual number of credits
476 taken for the Master's degree). Before choosing your two additional CS courses required to be
477 taken at UVA, verify that the graduate courses taken for your Master's degree also fulfill our
478 Qualifying Examination breadth requirement (consult the PhD Graduate Program Director).
479 If the breadth requirement is not completely satisfied by the graduate courses taken elsewhere
480 and used to generate the 24-credit "bulk transfer," then choose courses as necessary to fulfill
481 the breadth requirement. You must complete a minimum of 6 credits taken at UVA.
482 • If you passed a PhD Qualifying Examination *in Computer Science* at a previous institution,
483 you may petition the Graduate Study Committee to waive the depth portion (but not the
484 breadth portion) of the CS quals and present appropriate documentation (e.g., a letter from
485 the previous institution).
486 • If you took an equivalent course to our CS 6190 (Perspectives), submit appropriate docu-
487 mentation (e.g., transcript) and you will be exempted from our requirement of CS 6190 (3
488 credits).
489 • If you are entering as a third-year (or later) PhD student, you can request an exemption from
490 CS 6190 from the PhD Graduate Program Director.
491 • As soon as practical, form your PhD Dissertation Advisory Committee and file the appropriate
492 form.
493 • Prepare and defend your PhD Dissertation Proposal. File assessment paperwork when
494 satisfactorily completed.
495 • Complete the work defined in your proposal and then write and defend your written dissertation
496 in an oral presentation. File assessment form when satisfactorily completed.
497 • Submit dissertation electronically to LIBRA and take the survey of earned doctorates.

498 **3.10 First-Year Fellowship, GRAs and GTAs**

- 499 A PhD student is usually employed by the department, either as a *Graduate Teaching Assistant (GTA)*, a
500 *Graduate Research Assistant (GRA)*, or via a *First-Year Fellowship*. The First-Year Fellowship provides
501 student support for required duties such as classwork, research, and rotations; as such it represents taxable
502 income (unlike other Fellowships which impose no duties). As per SEAS policy, a funded student is not
503 allowed to have outside employment without permission from the Computer Science Chair and the SEAS
504 Director of Graduate Programs. Full-time graduate students must not unilaterally accept internships without
505 prior approval from their advisor.
506 With some exceptions, all full-time graduate students with departmental funding must sign up for at least 12
507 credit hours for both Fall and Spring semesters. CS 6190, CS 6993, CS 7993, CS 7995, CS 8987, CS 8999, CS
508 9897, and CS 9999 all count toward the full-time requirement.
509 Stipends increase after successful completion of the PhD qualifying examination, and again after successful
510 completion of the PhD proposal presentation.

511 **3.10.1 First-Year Fellowship**

512 Entering PhD students (excluding transfers into CS from another department) are typically funded in their
513 first year (fall, spring, summer) by a First-Year Fellowship. During this time, students are expected to attend
514 classes, complete any English as a Second Language (ESL) course requirements, conduct research with the
515 rotation advisor(s), and eventually match with a research advisor (see rotation discussion in section 3.3).

516 **3.10.2 Graduate Teaching Assistant (GTA) Responsibilities**

517 Graduate Teaching Assistants (GTAs) are important members of the department's professional teaching
518 staff. GTA responsibilities for each course are assigned by the instructor. Duties typically include grading,
519 proctoring laboratory sections, holding office hours and help sessions, attending class, reading instructional
520 materials, completing assignments, answering email or forum questions, and tutoring students in need of
521 additional help. GTAs may also contribute study questions or examination questions at the discretion of the
522 instructor. GTA assignments are made by the Graduate Student Coordinator early in the semester (and may
523 change early in the semester) and are accompanied by an expected number of hours the GTA should devote
524 to each course. GTAs without a firm grasp of course concepts should obtain guidance from the instructor
525 or request a change in course assignments from the CS staff when given the course assignment. Students
526 concerned that specific duties of the GTA are inappropriate/off-topic or require more effort than allocated
527 may seek resolution through the course instructor, their advisor, or the Graduate Student Ombudsman.

528 PhD students are *required* to serve as GTAs as a component of their degree. A GTA must sign up for 3
529 credit hours of CS 8897/9897 (Graduate Teaching Instruction), using the specific section assigned to the
530 instructor, for each 10 hour/week segment. PhD candidates (those who have already successfully completed
531 the Qualifying Examination should enroll in CS 9897; otherwise use CS 8897. GTAs assigned to multiple
532 courses should split the amounts among those courses at their discretion, noting that it is not possible to sign
533 up for fractional credit hours. Completion of the GTA portion of the PhD requirement is signified by having
534 accumulated 12 credit hours of CS 8897/9897, typically over Year 2 and Year 3 of PhD studies.

535 GTAs are representatives of the Department and the University. As such, they are expected to behave with
536 professional courtesy and politeness in all their official communications and activities, including handling
537 student questions in a polite, constructive, inclusive, and accurate manner. GTA conduct is governed by the
538 general conflict of interest policies of UVA.

539 The period of GTA engagement begins at the start of each semester and lasts until course final grades
540 are submitted to the registrar. GTAs should be reliable in all their duties. Non-emergency absences from
541 scheduled duties within that time must be approved by the course instructor and PGPD. As an example,
542 GTAs may not depart before final exams are graded and course grades are submitted without the advance
543 approval of their instructor and the PGPD.

544 **3.10.3 Graduate Research Assistant (GRA) Responsibilities**

545 PhD students receiving research funding through one or more professors are called Graduate Research
546 Assistants (GRAs). Much of a typical PhD student's academic tenure is spent as a GRA. GRAs and advisors
547 are colleagues in research and the employer-employee relationship is rarely visible as they work together
548 to engage in a research project. While a GRA officially a 20 hour/week position, with respect to funding,
549 success in graduate school requires substantially more effort. For instance, a student is expected to devote
550 at least 3 hours/week outside the classroom for each academic credit. In general, a GRA is expected to
551 work as directed by his or her research advisor. However, a student who is concerned that specific duties are
552 inappropriate, or off-topic may seek resolution with their research advisor or the PhD Graduate Program
553 Director or the Graduate Student Ombudsman. GRAs are expected to be physically present from the first
554 day of classes until the last day of exams. All absences must be approved by the research advisor and must
555 conform to the School of Engineering's policy regarding graduate student leave.

556 **3.10.4 Summer Support**

557 Students may wish to gain direct experience with government or industrial research through summer
558 internships (during any summer). A student interested in an internship should get the approval of his/her
559 advisor. Graduate-level summer internships often lead to a publication, provide external committee members
560 and help in the student's evaluation of possible careers. Research advisors, the SEAS Center for Engineering
561 Career Development, and the UVA Career Center can help find suitable summer employment. PhD students
562 who do not pursue internships are typically supported over the summer as GRAs (funded by their advisors)
563 and must register as full-time students (6 credits in Summer). Students who have passed the PhD Qualifying
564 Exam take CS 9999; otherwise take CS 8999.

565 **4. Ph.D. Student Assessment Policy and Process**

566 **4.1 Policy**

567 The Department of Computer Science is committed to maintaining a strong and nurturing Ph.D. degree
568 program. Toward this goal, the UVA CS Department assesses the progress of each Ph.D. student. The goal
569 of the assessment is to provide the student and advisor with feedback to help ensure the student's success in
570 obtaining a Ph.D. in a timely manner and the achievement of the student's professional goals.

571 **4.2 Process Overview**

572 For every Ph.D. student, their progress and achievements will be reviewed twice a year by their faculty
573 advisor and a separate three-person faculty committee. The result of the committee's assessment will be
574 provided to the student and faculty advisor.

575 **4.3 Ph.D. Student Assessment**

576 A Ph.D. student assessment committee consists of three faculty. Students will be randomly assigned to an
577 assessment committee with the caveat that a student is not assigned to a committee that contains their
578 advisor. The review load will be evenly distributed across the assessment committees.

579 Student progress will be reviewed twice a year—at the end of the Spring term. For each assessment period,
580 the student will complete a self-assessment form, and their advisor will complete a corresponding advisee
581 assessment form. The student's assessment committee will review both the student's self-evaluation and the
582 advisor's evaluation, and then complete the committee's assessment form.

583 The committee and student reports will be provided to the faculty advisor for comment. Based on any
584 feedback from the faculty advisor, the committee may, at their discretion, revise their assessment report.
585 When the assessment report is finalized, the advisor meets with the student to review the committee's
586 assessment and to discuss plans to address any concerns raised in the assessment and plans for the next
587 assessment period. Note: To avoid potentially mixed messages and confusion, only the committee's assessment
588 is provided to the student. However, an advisor may choose to provide their assessment report to the student.

589 **4.4 Problematic Evaluations**

590 In the case of problematic assessments, the Ph.D. Graduate Program Director will work with the student and
591 their advisor to determine the appropriate course of action. The Ph.D. Graduate Program Director will also
592 notify the Department Chair of any problematic assessments and recommended actions.

593 **4.5 Confidential Information**

594 If a student desires to provide confidential information for consideration by their assessment committee that
595 they do not wish to be shared with the advisor, the student can provide this information via this feedback
596 form:

597 <https://app.smartsheet.com/b/form/b5cd18894d8d4479a9696ca07530faa3>

598 This information will only be available to the relevant evaluation committee (sans advisor in the case of Senior
599 Ph.D. students), the Ph.D. Graduate Program Director, the CS Graduate Coordinators, and the Department

600 Chair. If the student is the advisee of the Department Chair (or Graduate Program Director), the confidential
601 information provided by the student will not be shared with the Department Chair (or GPD).

602 **5. International Students**

603 Per the UVA policy, international students should consult with the International Studies Office (ISO) directly
604 regarding matters that affect their legal status.

605 International Studies Office Website

606 **5.1 Full-Time Status**

607 Please consult with the International Studies Office regarding full-time status requirements:

608 <https://issp.virginia.edu/enrollment>

609 **5.2 English Language Proficiency Assessments (Written and Oral)**

610 The Center for American English Language and Culture (CAELC) administers the University of Virginia
611 English Language Proficiency Exam (UVELPE). For more information regarding UVELPE, refer to <https://caelc.virginia.edu/assessment>.

613 The UVA Computer Science Department believes that University-provided ESL (English as a Second Language)
614 courses are provided solely for the benefit of the student (about both academics and future employment).

615 Please refer to the SEAS Graduate Record for language requirements: [http://records.ureg.virginia.edu/cont](http://records.ureg.virginia.edu/content.php?catoid=57&navoid=5188#esl-courses)
616 ent.php?catoid=57&navoid=5188#esl-courses

617 As per CS department policy, students must comply with the ESL recommendations. UVELPE tests and
618 ESL requirements are University requirements and cannot be waived by the CS Department.

619 **5.3 Curricular Practical Training (CPT)**

620 International students should contact the International Studies Office (ISO) when considering a summer
621 internship.

622 UVA CS Master's and PhD students pursuing CPT should do the following: in the Fall semester *after* the
623 summer internship, register for one credit hour of CS 6890 (Industrial Applications) with their academic or
624 research advisor.

625 The general requirement of the CS 6890 course is to report on (1) when, where, and with whom the internship
626 was served, (2) what was learned and what new insights were gained, and (3) how the internship experience
627 is expected to assist future academic or employment pursuits. The details and specific requirements of the
628 course are supervised by the advisor. CS 6890 is evaluated as Satisfactory or Unsatisfactory (S/U) and does
629 not count for any of the graduate degree requirements.

630 In the rare event that a student completes a CPT internship in the Fall or Spring, the student may take CS
631 6890 that same semester *or* the subsequent semester.

632 **5.4 Optional Practical Training (OPT)**

633 *Optional Practical Training (OPT)* is available after graduation for students on an F-1 visa. Contact the
634 International Studies Office (ISO) for more details.

635 APPENDIX A - Useful Forms and Resources

Form or Resource Name	URL
Center for American English Language and Culture (CAELC)	https://caelc.virginia.edu/
Center for Engineering Career Development	https://engineering.virginia.edu/about/offices/center-engineering-career-development
Computer Science Department Website	https://engineering.virginia.edu/departments/computer-science
Computer Science Graduate Student Group (CSGSG)	https://csgsg.org
Curricular Practical Training (CPT)	https://issp.virginia.edu/f-1-curricular-practical-training-cpt
International Students and Scholars Program	https://issp.virginia.edu
International Studies Office	https://iso.virginia.edu/
Lou's List	https://louslist.org/
NSF Proposal Formatting Guidelines	https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pubsum01
Optional Practical Training (OPT)	https://issp.virginia.edu/f-1-optional-practical-training-opt
SEAS Academic Requirements for Ph.D. Students	https://engineering.virginia.edu/current-students/graduate-students
SEAS Graduate Forms Page	https://engineering.virginia.edu/graduate-forms
Student Information System (SIS)	https://sisuva.admin.virginia.edu/psc/ihprd/UVSS/SA/s/
Survey of Earned Doctorates	https://sedsurvey.org/
University of Virginia	http://www.virginia.edu
UVA Computer Science	http://www.cs.virginia.edu
UVA Graduate Record	http://records.ureg.virginia.edu/content.php?catoid=57&nm=1

636 APPENDIX B – CS Policy on Graduate Student Leave

- 637 Please refer to the School of Engineering's Vacation and Leave policy in the Graduate Record:
- 638 <https://records.ureg.virginia.edu/content.php?catoid=62&navoid=5418#vacation-and-leave>
- 639 We strive to create a friendly, cooperative, and professional relationship among graduate student assistants
- 640 and faculty mentors regarding both education and research.
- 641 It is expected that GTAs will be available during the entire semester, from the inception of class planning
- 642 until grades are submitted. This is encumbered by the many changes in GTA assignments that occur at the
- 643 beginning of each term. Nevertheless, as soon as a GTA is assigned to a course, the GTA should contact
- 644 the instructor to determine his or her duties, clarify whether class attendance is required, and learn the
- 645 instructor's plans and timing for final exam grading and final grade submission. Absences other than acute
- 646 illness should be approved in advance by the instructor. Consistent with UVA policy, the instructor will
- 647 determine whether the GTA's activities are to be performed in person or via telepresence.
- 648 GRAs work directly with their dissertation supervisor. GRAs should be in frequent contact with their
- 649 supervisor to determine research assignments, publication deadlines, and expectations for on-grounds vs.
- 650 electronic participation. Absences other than acute illness should be approved in advance by the supervisor.
- 651 Consistent with UVA policy, the supervisor will determine whether the GRA's activities are to be performed
- 652 in person or via telepresence.
- 653 Students should not plan extensive travel until the dates of their duties have been determined.

654 Student Leaves

- 655 1. Short-term, acute illness should be reported via email to the course instructor or the research advisor.
- 656 2. In the case of lingering illness, the student must notify the research advisor and the Graduate Program Director. In the event of chronic illness, a student may wish to (a) try working remotely, (b) consider withdrawal, (c) consider taking a medical leave of absence (which is *not* paid leave), or (d) seek temporary financial support from another source.

661 3. If a student is unable to return to the US because of visa issues, the student must advise
662 the research advisor and a Graduate Program Director. Stipends may be affected depending
663 upon the circumstances involved. Whenever visa issues arise, the student should consult with
664 the UVA International Studies Office (ISO).

665 **Significant Life Events**

- 666 1. GTAs, MTAs and GRAs who experience a significant life event (e.g., birth, death, or trauma
667 of a family member) should seek the advice of a Graduate Program Director. These special
668 cases will be resolved individually in accordance with the Provost's Policy on Significant Life
669 Events (PROV-027). See <https://uvapolicy.virginia.edu/policy/PROV-027>.
- 670 2. GTAs and GRAs who anticipate the birth of a child should seek the advice of a
671 Graduate Program Director and may be able to take advantage of the Provost's
672 Parental Accommodation for Graduate Students on Assistantship (PROV-028). See
673 <https://uvapolicy.virginia.edu/policy/PROV-028>.

674 **APPENDIX C – CS Policy on Defunding a GRA**

675 Once a PhD student has matched with a faculty advisor, that event establishes a two-way obligation such
676 that (1) the student agrees to make continuous and satisfactory progress toward his or her degree, and (2)
677 the faculty member agrees to provide mentoring and GRA support throughout the student's tenure, as long
678 as the student is making satisfactory progress. A student's performance may be deemed unsatisfactory for
679 reasons such as:

- 680 • an individual graduate course has a grade below C
- 681 • graduate GPA is lower than the required B average
- 682 • as determined by the research advisor or Graduate Program Director:
 - 683 – student is substantially late finishing required coursework
 - 684 – student is not making progress on program milestones such as the qualifying exam, PhD
685 proposal, or dissertation
 - 686 – student is not making adequate progress on research, is not producing papers of apparent
687 publishable quality, or repeatedly fails to meet reasonable milestones set out by the advisor
 - 688 – student has significant difficulty working within a research group (i.e., working collegially
689 with peers)
- 690 • student has significant difficulty with oral and/or written communications not remedied by
691 ESL courses
- 692 • violation of the policy on GTA/GRA leave
- 693 • violation of the policies on acceptable use of CS and/or UVA computing equipment
- 694 • other specific criteria as predefined by the advisor and approved by the Graduate Program
695 Director.

696 Special situations such as long-term illness or parental leave are covered by other departmental and/or Provost
697 policies.

698 If a student fails to maintain continuous and satisfactory progress, and if as a result the faculty research
699 advisor wishes to discontinue GRA funding for the student, then, in accordance with the Provost's policy
700 on Graduate Assistantships PROV-001 (available at <https://uvapolicy.virginia.edu/policy/PROV-001>) and
701 SEAS funding rules, the following procedures must be followed.

- 702 1. The PhD advisor must meet with the student to (a) identify what aspects of the student's performance
703 are unsatisfactory, and (2) explain in writing what changes must occur and on what timeline (minimum of
704 two months) for the student's performance to be once again considered satisfactory. If the student wishes to
705 continue working with this PhD advisor, they must be given adequate time to improve their performance and
706 meet the advisor's set of milestones.
- 707 2. The faculty member is obligated to report any such ongoing situation to the PhD Graduate Program
708 Director (PGPD) each time the department conducts its graduate student review. The faculty member may
709 report their concerns to the PGPD separately from the PhD assessment process.
- 710 3. The faculty member is obligated to signal unsatisfactory performance by submitting a grade of "U"
711 (unsatisfactory) for one or more current-semester research courses (e.g., CS 9999). If a student's performance
712 has been borderline and an advisor needs more time to determine whether a U is warranted, an incomplete
713 (IN) may be assigned temporarily to give the student time to improve their performance. This may be done
714 in conjunction with step 1 above.
- 715 4. If mentoring attempts by the PhD advisor (and optionally the PhD Graduate Program Director or others)
716 as described in step 1 are not successful, then the following procedures are invoked:
- 717 • The PhD advisor notifies the student and the PhD Graduate Program Director of the advisor's
718 intent to defund a GRA and the advisor's proposed date of defunding (end of the current
719 semester is strongly encouraged).
- 720 • The advisor provides the student and PGPD with a written explanation of why GRA support
721 is proposed to be withdrawn. This is a separate notification (and later by at least two months)
722 from the first notification described in #1 above.
- 723 • If desired by the student, a meeting is arranged with the advisor and PGPD (and optionally
724 others who might be helpful) to discuss the issue.
- 725 • If, after discussion, the decision is to proceed with defunding, then the student may (a) exit
726 the program immediately (mid-semester, and funding will be withdrawn immediately), or (b)
727 finish the current semester (e.g., to complete courses or complete a master's degree, or (c)
728 search for a new PhD advisor.
- 729 • In cases (b) and (c) above, funding from the current research advisor continues for the *longer*
730 of (1) two months or (2) the remainder of the current term (Fall, Spring, Summer).
- 731 It should also be noted that defunding a GRA can have serious consequences, especially for those on an
732 F-1/J-1 visa. For more details, consult the International Studies Office (ISO).
- 733 Deviations from this policy due to exceptional circumstances will be handled on a case-by-case basis.