

Spring 2020 Computer Science Course Enrollment Policy and Registration Procedures

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INTRODUCTION

Enrollments in Computer Science courses have increased dramatically over the past five years, including majors and non-majors from both the School of Engineering and the School of Arts and Sciences. CS is now the largest major across Arts, Sciences, and Engineering! We had over 150 Computer Science majors graduate in 2019, and we project approximately 200 graduates in Spring 2020.

We will continue with registration procedures and course enrollment rules that are similar to but not identical to the ones that have applied for Fall 2019. These policies ensure that we continue to serve the students taking our courses to the best of our abilities without placing unrealistic demands on our graduate teaching assistants and our faculty.

The purpose of this note is to clarify the registration policies for each of our courses and to clarify the procedures that students must use when registering in SIS. This is not a comprehensive list of all courses that will be offered in the Spring; it is only a list of those courses that have enrollment restrictions or special procedures. You can refer to the Computer Science website or SIS for a full list of courses that will be offered.

Please note that “Freshman or Sophomore Standing” for registration in Spring 2020 is with respect to your terms of residency here at Tufts. If you are in your first or second semester, you are a freshman. If you are in your third or fourth semester, you are a sophomore. The “Freshman” or “Sophomore” in the policies below refer to your standing when the course starts in Spring 2020.

SPRING 2020 COURSE ENROLLMENT POLICIES

COMP 10 (Computer Science for All)

This course is intended for non-CS majors only. It will not count for credit towards any Computer Science degree. This course will **not** fulfill the Mathematical Sciences distribution for A&S students.

COMP 11 (Introduction to Computer Science)

The following students can register up to the maximum available capacity:

Freshman or Sophomore Standing OR Graduate Standing OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR Computer Science Second Major OR School of Engineering - Computer Engineering (BSCPE) OR Electrical Engineering (BSEE) OR College of Liberal Arts - Cognitive and Brain Sciences (BA or BS) OR Engineering Psychology OR Human Factor Engineering OR College of Special Studies - Post-Bac Computer Science Program.

All other students can sign up through special waitlist sections (03 and 04) and will be allowed into the class if space permits. Priority will be given to those minoring in computer science and those closer to graduation.

COMP 15 (Introduction to Computer Science)

The following students can register up to the maximum available capacity:

Freshman or Sophomore Standing OR Graduate Standing OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR Computer Science Second Major OR School of Engineering - Computer Engineering (BSCPE) OR Electrical Engineering (BSEE) OR College of Liberal Arts - Cognitive and Brain Sciences (BA or BS) OR Engineering Psychology OR Human Factor Engineering OR College of Special Studies - Post-Bac Computer Science Program.

All other students can sign up through special waitlist sections (03 and 04) and will be allowed into the class if space permits. Priority will be given to those minoring in computer science and those closer to graduation.

COMP 40 (Machine Structure and Assembly -Language Programming)

The following students can register up to the maximum available capacity:

Freshman or Sophomore Standing OR Graduate Standing OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) Major OR Computer Science Second Major OR College of Special Studies - Post-Bac Computer Science Program. COMP 15 AND Departmental consent are also required.

All other students can sign up through special waitlist section (02), and will be allowed into the class if space permits. Priority will be given to those minoring in computer science and those closer to graduation.

COMP 105 (Programming Languages)

The following students can register up to the maximum available capacity:

Graduate Standing in Computer Science OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR Computer Science Second Major OR College of Special Studies - Post-Bac Computer Science Program OR School of Engineering – CERT/PB OR School of Engineering - Computer Engineering (BSCPE) OR Graduate Standing in Electrical Engineering. Completion of Comp 15 AND Comp 61 are required.

All other students can sign up through the special waitlist section (02) and will be allowed into the class if space permits. Priority will be given to those minoring in computer science and those closer to graduation.

An important note about COMP 105 recitations: Students should register for the RZZ recitation. Professor Ramsey will then be in contact to schedule a recitation according to your preferences.

COMP 112 (Networks & Protocols)

The following students can register up to the maximum capacity:

Graduate standing or School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR School of Liberal Arts – Computer Science (BA or BS) OR College of Special Studies – Post-Bac Computer Science Program. COMP 15 and (COMP 40 or EE 114)) are required.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

Students must also register for COMP 193: Networking Lab, which is a co-requisite for this course.

Overall, this course is worth 4 units—3 units for COMP 112 and 1 unit for COMP 193.

The course also has a recitation once per week. Attending the recitations is highly recommended but not required.

COMP 115 (Database Systems)

The following students can register up to the maximum available capacity:

Graduate Standing in Computer Science, Bioengineering, or Electrical Engineering OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR Computer Science Second Major OR College of Special Studies - Post-Bac Computer Science Program OR School of Engineering – CERT/PB OR School of Engineering - Computer Engineering (BSCPE). COMP 15 is required.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 116 (Introduction to Computer Security)

The following students can register up to the maximum available capacity:

Graduate standing or School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR School of Liberal Arts – Computer Science (BA or BS) or College of Special Studies – Post-Bac Computer Science.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 118 (Cloud Computing)

The following students can register up to the maximum available capacity:

Graduate standing or School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR School of Liberal Arts – Computer Science (BA or BS) or College of Special Studies – Post-Bac Computer Science.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 131 (Artificial Intelligence)

The following students can register up to the maximum available capacity:

Graduate standing OR College of Special Studies – Post-Bac Computer Science OR undergrads who have completed COMP 15 and COMP/MATH 61.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 135 (Machine Learning)

The following students can register up to the maximum available capacity:

Graduate standing OR College of Special Studies – Post-Bac Computer Science OR Computer Science / Data Science majors who have completed COMP 15 and COMP/MATH 61.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 136 (Statistical Pattern Recognition)

The following students can register up to the maximum available capacity:

Graduate standing or School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR School of Liberal Arts – Computer Science (BA or BS) or College of Special Studies – Post-Bac Computer Science.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 139 (Ethics for AI, Robotics, and HRI)

The following students can register up to the maximum available capacity:

Graduate standing in CS or HRI OR School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts – Computer Science (BA or BS) OR Computer Science Minor. Senior standing required for all undergrads. Junior standing allowed with instructor consent.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 150 (Cryptography)

The following students can register up to the maximum available capacity:

Graduate standing OR College of Special Studies – Post-Bac Computer Science OR completion of COMP 15 AND COMP/MATH 61. COMP 160 or COMP 170 or any 100-level MATH course is recommended.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 150-01 (Cyber Security and Cyber War)

The following students can register up to the maximum available capacity:

Graduate standing OR School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts – Computer Science (BA or BS). Completion of COMP 15 required for undergrads.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 150-02 (Assistive Algorithms)

The following students can register up to the maximum available capacity:

Graduate standing OR completion of ME 80 OR completion of COMP 15 AND COMP/MATH 61.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 150-03 (Probabilistic Robotics for HRI)

The following students can register up to the maximum available capacity:

Graduate standing OR School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts – Computer Science (BA or BS) OR Computer Science Minor. Previous completion of COMP 50 – Autonomous Intelligent Robots required for all undergraduates.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 150-06 (Entrepreneurship for Computer Scientists)

The following students can register up to the maximum available capacity:

Graduate standing OR School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts – Computer Science (BA or BS) OR Computer Science Minor. Junior or senior standing required for all undergrads.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 160 (Algorithms)

The following students can register up to the maximum available capacity:

Graduate Standing OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR School of Engineering – Computer Engineering (BSCPE) OR Computer Science Second Major OR College of Special Studies - Post-Bac Computer Science Program OR School of Engineering – CERT/PB. Completion of COMP 15 and COMP/MATH 61 required for undergrads.

There is no separate waitlist for students who do not meet the above qualifications, but there are two sections of this course available. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 170 (Computation Theory)

The following students can register up to the maximum available capacity:

Graduate Standing OR School of Engineering - Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts - Computer Science (BA or BS) OR School of Engineering – Computer Engineering (BSCPE) OR Computer Science Second Major OR College of Special Studies - Post-Bac Computer Science Program OR School of Engineering – CERT/PB. Completion of COMP 15 and COMP/MATH 61 required for undergrads.

All other students can sign up through special waitlist sections, and will be allowed into the class if space permits. Priority will be given to those minoring in computer science and those closer to graduation.

COMP 175 (Computer Graphics)

The following students can register up to the maximum available capacity:

Graduate standing OR College of Special Studies – Post-Bac Computer Science OR completion of COMP 40.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 177 (Visualization)

The following students can register up to the maximum available capacity:

COMP MS or PhD OR School of Engineering – Computer Science (BSCS) OR Data Science (BSDS) OR College of Liberal Arts – Computer Science (BA or BS) OR instructor consent. Completion of COMP 40 required for undergrads.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

COMP 260 (Advanced Algorithms)

The following students can register up to the maximum available capacity:

Graduate standing AND previous completion of COMP 160, or instructor consent.

There is no separate waitlist for students who do not meet the above qualifications. If you do not qualify to register, please check with the instructor after registration closes for availability if the enrollment is not at capacity.

PROCEDURES FOR REGISTERING USING SIS

As explained above, registration in several courses is restricted to particular groups of students, with a waitlist used for any such students who would cause the course to exceed capacity. *Students who do not meet the restricted registration requirements may (for some courses – see lists above) join a separate waitlist.* The following sections explain how to register in SIS and how the waitlists will be administered.



Be sure you understand whether you meet the restricted registration requirements for each course before attempting to register. These are for the most part similar to those used for fall term courses.

COMP 11, 15, 40, 105, 160, and 170: SIGNING UP FOR THE APPROPRIATE “LECTURE” SECTION IN SIS

These instructions apply to COMP 11, COMP 15. As described above, these courses offer separate “waitlist” sections for students who do not qualify to register immediately.


For the typical course, SIS has one “section” listing for each time at which a class is offered. For example, COMP 40 is offered in only one block and would usually have one section listing; COMP 11 is offered in two blocks, so normally there would be one SIS section listing for each.

To support the two separate waitlists, *there are now two SIS sections for each actual offering of COMP 11, COMP 15, COMP 40, COMP 105, COMP 160 and COMP 170.* Each pair of section listings has the following characteristics:

1. One section is intended for use by students who qualify for restricted registration (Comp Sci majors, etc.) This section shows in SIS a capacity equal to the intended size for the course. Until it fills it shows with a status of  and once filled it is marked . There is also a waitlist with additional capacity. *This section will allow enrollment and waitlist registration only by students who meet the restricted registration requirements. SIS will not let others enroll or waitlist, regardless of the date on which enrollment is attempted.*

If you expand the “details” for these sections, they show codes for the pertinent enrollment restrictions. For example:

Enrollment Reqs Requires Graduate Standing, Liberal Arts Sophomore Standing, or Computer Science Major or Post Bac Computer Science.

2. The second section is for use by students who are *not* eligible per the restricted registration rules. It will allow registration from any student who meets the prerequisites for the course, *but it has a set capacity of zero (no students) and thus always shows as full in SIS. It will always show a status of .* *Students who do not qualify for restricted registration may add themselves to this waitlist.*

These sections will typically show no enrollment requirements relating to your status as a CS major, etc.

INSTRUCTIONS FOR STUDENTS WHO QUALIFY FOR RESTRICTED REGISTRATION

Most likely, your registration will be similar to what you do for any other course, but you must be sure to choose the section that is intended for qualifying students. As discussed above, you can recognize these sections because their “Class Capacity” is greater than 0. You can also note that the Enrollment Requirements shown in SIS match the published restrictions for the course (e.g., CS majors, etc.).

Be sure you have found the appropriate (capacity > 0) section and register. If there is space in the class, your enrollment will be confirmed. If not, join the waitlist for the (capacity > 0) section.

If your course has a lab, then **choose any lab except LW-LAB. The only time you should choose LW-LAB would be in the event that the class is full and you put yourself on the waitlist.**

INSTRUCTIONS FOR STUDENTS WHO *DO NOT QUALIFY* FOR RESTRICTED REGISTRATION

The course section you are looking for will have a capacity of 0; it will either have no Enrollment Requirements (because anyone can join the waitlist) or it will show prerequisite requirements unrelated to the capacity limits.

Join the waitlist for this section.

If your course has a lab, then **enroll in LW-LAB only**. This section is a waitlist for the lab. Your actual lab time will be determined if you move from the waitlist to confirmed status. **You must sign up for the waitlist. If you try to register for a different lab section, your registration will fail.**

INSTRUCTIONS FOR CS MINORS

Please note the minor requirements:

Five courses are required for a computer science minor:

- COMP 15
- COMP/MATH 61
- Two courses chosen from COMP 40, 105, 160 and 170
- One additional course in computer science numbered above 15

We will do our best to accommodate your choices in 40, 105, 160, and 170. We will also do our best to accommodate your choice of the additional CS course above 15.

HOW CLASSES WILL BE FILLED

As usual, if SIS accepts your enrollment in the course then your place is reserved. There is nothing further for you to do. *This will only be possible initially for students eligible for restricted registration.*

No students will be moved from waitlists to full registered status until all eligible students have had an opportunity to register. After that, the department will move students from the waitlists to registered status as space permits. The timing for this will likely depend on the individual course and the number of students registered; for example, if many spaces are left after all qualifying students are served, then we can promptly register students from the unrestricted waitlist. In other cases, decisions may be delayed until closer to the start of the term.

NOTE: No student will be admitted from the Waitlists after the course ADD deadline as SIS erases all waitlists at that time.

FILLING SPACES IN THE SPRING WHEN STUDENTS DROP CLASSES

Some classes may allow a few students from the head of the waitlists to begin class work for a few weeks at the start of term, but those students will be allowed to enroll and complete the class only if other students drop and open up a space. The details will depend on the particular class; *if you are eligible to do this, you will be informed before the start of the term.* In the meantime, you should register and attend other courses as there is a significant chance that there will not be space for you.

DECLARING YOUR MAJOR OR MINOR IN COMPUTER SCIENCE

If you are not already a Computer Science major or minor and wish to become one, please follow these procedures:

- For students in the School of Engineering:

Complete the [Engineering Primary Major Declaration](#) or [Declare an Additional Major](#) form found on the Tufts Student Forms page. You will be assigned an adviser.

- For students in the School of Arts and Sciences:

Complete the [Liberal Arts Primary Major Declaration](#) or [Declare an Additional Major](#) form found on the Tufts Student Forms page. When asked to enter an adviser's name and email, please enter Brandon Mennillo as the adviser and Brandon.Mennillo@tufts.edu. Brandon will receive your form and assign you an adviser.

You can use the [Add a Minor](#) form to add a minor. Please note that no adviser will be assigned to you if you are declaring a minor.

Note too that your eligibility for restricted registration does not formally begin until the registrar has processed your declaration in SIS. This can take up to two weeks from the time you submit the electronic form. If you are making a late declaration and wish to be considered for enrollment in restricted courses, please join the unrestricted waitlist (if one is available) and contact the instructor.

If you have any questions, please contact your Computer Science adviser. If you currently do not have a Computer Science adviser, please direct questions to the CS office at (csadmin@cs.tufts.edu).

Sincerely,

The Faculty of the Department of Computer Science