Approved Program of Study for Undergraduate Minors
Georgia Institute of Technology
Office of the Registrar
2018-2019
Minor in Robotics

Please type or print in ink:

<table>
<thead>
<tr>
<th>Name (first/last):</th>
<th>GT Student ID Number:</th>
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<tbody>
<tr>
<td>GT Email Address:</td>
<td>Daytime Phone:</td>
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<tr>
<td>Major:</td>
<td>Anticipated Graduation Date:</td>
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In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: [http://catalog.gatech.edu/academics/minors/](http://catalog.gatech.edu/academics/minors/)

The Robotics minor consists of 15 hours of credits (excluding the pre-requisite course) taken from a list of required and elective courses. Please note that some courses may have additional pre-requisites.

**Required pre-requisite (does not count toward 15 hours of credit):** ECE 2035, ECE 2036, CS 1331, or equivalent proven competency.

**Required course (3 credit hours - select one):** BMED 4739, CS 3630, ECE 4560, ME 4451

**Electives (12 credits – select at least one course from two of the four core categories: Autonomy, Controls, Mechanics, and Perception).**

- **Autonomy:** AE 4552, CS 3600, CS 4641, CS 4649, ECE 4555
- **Controls:** AE 3531 or ECE 3550 or ME 4452, ECE 4550, ME 4012, ME 4405
- **Mechanics:** AE 2220, AE 3530, ME 4189
- **Perception:** BMED 3500, BMED/ECE 4781, BMED/ECE 4783, CS 4476, CS 4616, ECE 2026, ECE 4180, ECE 4271

**AE/BMED/ME/ECE/CS 4699 Undergraduate Research in robotics or autonomous systems (3 hours) may be used to fulfill one of the 4 core requirements. This research must be completed with a robotics faculty member and requires a final report that highlights its linkage to the respective core: Autonomy, Controls, Mechanics, and Perception.**

See additional requirements on second page

List the courses completed for the requested minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Grade</th>
<th>Semester Completed</th>
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Student signature:

Major school signature:

Minor school signature:
Additional Restrictions on the 15 hours of credit for the Robotics Minor:

- At least two courses must be taken outside of the student’s home school. Cross-listed courses, such as those marked with an * in the list above, cannot count as being “outside the home school” for any of the students who are from the schools that cross list that course.
- Courses must be taken from two or more schools.
- All courses from the minor must be passed with a grade of C or higher.
- No more than one 2xxx level course may be used towards the minor.
- No course that is required (by name and number) in the student’s major discipline can be counted towards the student’s minor. No course that is considered equivalent to a required course in the student’s major is allowed for the minor.
- No course counted towards the Robotics Minor can be used for any other undergraduate minor or certificate.
- A maximum of 3 semester hours of transfer credit may be used to satisfy the course requirements for a minor. This includes courses taken at another institution or credit earned through the AP or IB program, assuming the scores meet Georgia Tech minimum standards.
- It is the major advisor’s responsibility to verify that students are using only courses from the designated block(s) from the student’s major field of study that are allowed to satisfy a minor program, that they are not using any Core Area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Any free elective course used to satisfy the course requirements of the student’s major degree program may also be used to satisfy the course requirements for a min