This academic map is a suggested semester-by-semester guide to keep you on track to complete your degree requirements in two years. Your academic advisor can provide you with clear direction needed to stay on course and discuss scheduling options with you. Taking courses not reflected on this map may result in courses not counting toward the completion of your requirements.

### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIM 180</td>
<td>Computer and Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 281</td>
<td>Software Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 157</td>
<td>Introduction to Java</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH - - -</td>
<td>Math Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

15 Credits

### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIM 171</td>
<td>Computer Configuration and Hardware</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 271</td>
<td>Database Concepts and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 168</td>
<td>Advanced Java</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HU - - -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>SS - - -</td>
<td>Social Science Elective</td>
<td></td>
</tr>
</tbody>
</table>

**CHOICE ONE**

15 Credits

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIM 221</td>
<td>Operating Systems Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CTIM</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 285</td>
<td>Python</td>
<td>3</td>
</tr>
<tr>
<td>MATH - - -</td>
<td>Math Elective</td>
<td>3</td>
</tr>
<tr>
<td>LA - - -</td>
<td>Liberal Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

15 Credits

### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIM 250</td>
<td>Current Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CTIM 278</td>
<td>Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>CTIM - - -</td>
<td>CTIM Elective</td>
<td>3</td>
</tr>
<tr>
<td>CTIM</td>
<td>Programming in C++</td>
<td>3</td>
</tr>
<tr>
<td>SC - - -</td>
<td>Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

15 Credits

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**About Developmental Courses**

Developmental courses do not satisfy graduation requirements, but they are required for those who place into them and will appear on the student's transcript. Placement into one of the following courses indicates that a student needs additional preparation before enrolling in college-level courses:

- ENGL 091 Preparing for College Reading I
- ENGL 092 Preparing for College Reading II
- ENGL 095 Reading and Writing Seminar
- ENGL 099 Introductory Writing
- MATH 001-003 Prep College Math I-III
- MATH 010 Fundamentals of Mathematics
- MATH 101 Introductory Algebra

**Milestones**

- Semester 2: Java Certification (College-approved)

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**Route to Success**

Summer and/or Winter Session classes may be available for your program to help you finish on time. See your advisor and/or visit the online course search for availability.

**Ready to Go**

Courses have no prerequisites or developmental courses.

**Semester-specific Course Offerings**

Courses are not offered all semesters.

**Minimum Grade Requirement**

Students must earn a minimum grade to remain in the program.

**Electives**

For details on eligible electives, please see reverse.

Taking **15 credits/semester** or **30 credits/year** will help you stay on track to finish your degree in two years.
Computer Information Systems - Programming

Associate in Applied Science

Program Notes

Be aware of prerequisites and review the Degree Works PLAN regularly. Students must complete program modification forms to add below College-approved certificates as concurrent curriculum.

CTIM Elective: May be one 3-credit course or three 1-credit courses.
Math Electives: MATH 121 Topics of Math I or higher, excluding MATH 127, 128, 141, and 142
Other Electives: Students choosing a humanities, science, or social science elective can select from the Course Elective Guide at massasoit.edu/electives.

Some courses may have prerequisites, which are courses that must be taken prior to a particular course. For details, log into DegreeWorks through your MyMassasoit portal.

A minimum of 60 credits and 20 courses is required for completion. The same course may not be used to satisfy two different course requirements.

Resources for Academic Success at Massasoit

All College phone numbers are 508-588-9100 + extension.

Registrar's Office
massasoit.edu/registrar
registrar@massasoit.mass.edu

Testing & Assessment
massasoit.edu/testing
x1991

Financial Aid
massasoit.edu/finaid
fao@massasoit.mass.edu

Advisement & Counseling Center
massasoit.edu/advisement-counseling
advisementcounseling@massasoit.edu

Academic Resource Center
massasoit.edu/arc

Division Dean
Donna Wright
dwright10@massasoit.mass.edu
x1677

After Graduation/Completion

Check in with Career Services
Attend College/Job Fairs for future job placement

Upon successful completion of this degree, you will be able to construct programs in at least three widely used programming languages. You will be able to build on the constructs of sequence, selection, and repetition to develop programs using objects, methods, data abstraction, inheritance, and polymorphism. You will be prepared for jobs such as analyst programmer, application developer, computer programmer, internet programmer, and software developer.

Resources for Future Planning

Transfer Services
massasoit.edu/transfer
x1461

Career Services
massasoit.edu/careerservices
x1406

508-588-9100
massasoit.edu

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