This academic map is a suggested semester-by-semester guide to keep you on a clear pathway to program completion. Your academic advisor will 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</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 140 Intro to Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 151 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>HU - - - Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 18

### Semester 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 222 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 161 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 152 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>SS - - - Social Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 18

### Semester 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 272 Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 273 Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 223 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 162 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>HU - - - Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 18

### Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 274 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 275 Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 276 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 230 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>SS - - - Social Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 17

### 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 060 Math Literacy
- MATH 011 Introductory Algebra
- MATH 012 Intermediate Algebra

### 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.

**Congratulations**

You’ve Arrived!
Program Notes

This curriculum is for students who want to transfer into a 4-year institution to complete their bachelor's degree in mechanical engineering. Students in this program are strongly encouraged to work closely with an engineering staff member and meet with them to determine courses for future semesters. Transfer requirements are different from one 4-year institution to the next and we want to make sure that students take the courses that will provide a smooth transfer into a 4-year engineering program.

Students should begin researching their institution options as early as possible in order to tailor their courses at Massasoit Community College if possible, and to understand the expectations and opportunities that each 4-year college offers.

Students considering transfer to UMass Dartmouth for mechanical engineering should be aware that ENGT 275 (Strength of Materials) from Massasoit will not transfer directly into UMD’s Strength of Materials class. Instead, credit for this course is given to the UMD MNE 101 (Intro to Mechanical Engineering) course as part of the articulation agreement. This does not affect Civil Engineers. Please discuss this with Engineering faculty.

An articulation agreement with UMass Dartmouth exists for the Mechanical Engineering program. Students considering a transfer to UMass Lowell for Mechanical Engineering should be aware that Chemistry II is not required by that program. Students should talk to Engineering faculty at Massasoit Community College about taking another science course in place of CHM 152.

Other Electives: Students choosing a humanities, lab science, liberal arts, modern language, or science elective can select from the Course Elective Guide at massasoit.edu/electives. It is strongly suggested that students choose these courses work with engineering faculty to ensure the elective they plan to take will be accepted when they transfer.

This program is intended for students who wish to continue their education to pursue a bachelor's degree at a four-year college or university. Students enrolled in this program may consider transfer options through MassTransfer with Massachusetts state colleges and universities or other transfer opportunities at private institutions.

For more information about transfer opportunities, program pathways, course equivalencies, and upcoming transfer events, please visit massasoit.edu/transfer.

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

After Graduation/Completion

Consider joining and/or visiting sites of professional organizations such as:

American Society of Mechanical Engineers (ASME)  www.asme.org
Institution for Mechanical Engineers (IME)  www.imeche.org
International Academy of Production Engineering (CIRP)  www.cirp.net
Society of Automotive Engineers (SAE)  www.sae.org
Society of Manufacturing Engineers (SME)  www.sme.org

Consider attending conferences in the area to learn more about product design and what different opportunities exist. Pursue research, mentorship, and projects at your 4-year school.

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
Carine Sauvignon
emergenttech@massasoit.mass.edu
x2106

Resources for Future Planning

Transfer Services
massasoit.edu/transfer
x1461

Career Services
massasoit.edu/careerservices
x1406

508-588-9100
massasoit.edu