



## Liberal Arts and Sciences – Mathematics Concentration

### Associate in Science

**START here****1**

SEMESTER 1 – FALL	CREDITS	MILESTONE	COMPLETED
ENG 101 – English Composition I	3		<input type="checkbox"/>
<b>MAT 290 – Calculus I</b>	<b>4</b>		<input type="checkbox"/>
BIO 131 – General Biology I –or– CHE 131 – College Chemistry I –or– CHE 151 – General Chemistry for Engineering and Science I –or– PHY 171 – Physics for Engineering and Science I	4		<input type="checkbox"/>
Humanities Elective	3		<input type="checkbox"/>
IDS 101 – First Year Experience	1		<input type="checkbox"/>
<b>TOTAL CREDITS</b>	<b>15</b>		

**2**

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED
ENG 102 – English Composition	3		<input type="checkbox"/>
<b>MAT 291 – Calculus II</b>	<b>4</b>		<input type="checkbox"/>
<b>MAT 250 – Discrete Math</b>	<b>3</b>		<input type="checkbox"/>
BIO 132 – General Biology II –or– CHE 132 – College Chemistry II –or– CHE 152 – General Chemistry for Engineering and Science II –or– PHY 172 – Physics for Engineering and Science II	4		<input type="checkbox"/>
Behavioral Science Elective	3		<input type="checkbox"/>
<b>TOTAL CREDITS</b>	<b>17</b>		

**3**

SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
<b>MAT 292 – Calculus III</b>	<b>4</b>		<input type="checkbox"/>
<b>MAT 295 – Linear Algebra</b>	<b>3</b>		<input type="checkbox"/>
HST 121 – US History before 1865 –or– HST 130 – History of World Civilization before 1500	3		<input type="checkbox"/>
Humanities Elective	3		<input type="checkbox"/>
Behavioral Science Elective –or– Social Science Elective	3		<input type="checkbox"/>
<b>TOTAL CREDITS</b>	<b>16</b>		

**4**

SEMESTER 4 – SPRING	CREDITS	MILESTONE	COMPLETED
<b>MAT 298 – Differential Equations</b>	<b>3</b>		<input type="checkbox"/>
MAT 296 – Linear Algebra II	3		<input type="checkbox"/>
HST 122 – US History after 1865 –or– HST 131 – History of World Civilization after 1500	3		<input type="checkbox"/>
Literature Elective	3		<input type="checkbox"/>
Humanities Elective	3		<input type="checkbox"/>
<b>TOTAL CREDITS</b>	<b>15</b>		

**You've FINISHED!****Milestone Courses**

should be taken in the order shown. This will help you stay on track and graduate on time.

**Make Your Summer Matter.**

Summer is a great time to take some elective courses and get ahead.

**Helpful Hints**

Lab Science courses must be one of these sequences:

- BIO 131 – General Biology I and BIO 132 – General Biology II –or–
- CHE 131 – College Chemistry I and CHE 132 – College Chemistry II –or–
- CHE 151 – General Chemistry for Engineering and Science I and CHE 152 – General Chemistry for Engineering and Science II –or–
- PHY 171 Physics for Engineering and Science I and PHY 172 – Physics for Engineering and Science II

History courses must be one of these sequences:

- HST 121 – US History before 1865 and HST 122 – US History after 1865 –or–
- HST 130 – History of World Civilization before 1500 and HST 131 – History of World Civilization after 1500

**Career and Transfer Outlook**

Students planning on transferring to UML for BS, who are interested in the Chemistry option, must take CHE 151 – General Chemistry for Engineering and Science I

Students planning on transferring to UML for BA, who are interested in the Chemistry option, may take CHE 131 – College Chemistry I

To learn more, call us at **1-800-818-3434**  
or visit **www.middlesex.mass.edu**