### Mathematics Associate in Science Degree

#### General Emphasis (62 Credit Hours Minimum)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Completed</th>
<th>Grade/Credit Hrs.</th>
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</thead>
<tbody>
<tr>
<td><strong>General Education Requirements (37 hours min.)</strong></td>
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<tr>
<td>English Composition (6 hours)</td>
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<tr>
<td>ENGL 1113  English Composition I</td>
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<tr>
<td>ENGL 1213  English Composition II+</td>
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<tr>
<td>U.S. History/U.S. Government (6 hours)</td>
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<tr>
<td>HIST 1483  U.S. History to 1877 or</td>
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<tr>
<td>HIST 1493  U.S. History Since 1877</td>
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<tr>
<td>POLS 1113  American Federal Government</td>
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<tr>
<td>Sciences (7 hours)—one must include lab</td>
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<tr>
<td>Students must earn a “C” or better in these courses to be eligible for graduation.</td>
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<tr>
<td>See Science Electives on next page.</td>
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<tr>
<td>Humanities (6 hours)</td>
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<tr>
<td>See courses listed in RSC Academic Catalog.</td>
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<tr>
<td>Mathematics (3 hours)</td>
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<tr>
<td>Students must earn a “C” or better in MATH 2113 to be eligible for graduation.</td>
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<tr>
<td>*MATH 2113  Calculus &amp; Analytic Geometry I+</td>
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<tr>
<td>Liberal Arts (3 hours)</td>
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<tr>
<td>See courses listed in RSC Academic Catalog.</td>
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<tr>
<td>General Education Electives (6 hours)</td>
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<tr>
<td>See courses listed in RSC Academic Catalog.</td>
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<tr>
<td><strong>Program / Emphasis Requirements (9 hours)</strong></td>
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<tr>
<td>Students must earn a “C” or better in these courses to be eligible for graduation.</td>
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<tr>
<td>MATH 2123  Calculus &amp; Analytic Geometry II+</td>
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<tr>
<td>MATH 2143  Calculus &amp; Analytic Geometry III+</td>
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<tr>
<td>MATH 2153  Calculus &amp; Analytic Geometry IV+</td>
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<tr>
<td><strong>Program / Emphasis Electives (16 hours)–See Program Electives on next page.</strong></td>
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</tbody>
</table>

+Check course description for prerequisites that must be met.
*Students may meet prerequisite requirements for MATH 2113 through high school coursework, entrance exams, or exams, or by completing the prerequisite courses.
**Science Electives**
Acceptable courses include: HSBC 1104, HSBC 1224, HSBC 2103, HSBC 2114, GEOG 1114, or any course with the following prefixes: ASTR, BIOL, CHEM, ENSC, GEOL, METR, PHSC, PHYS (7 hours; one course must include lab)

**Program Electives**
CHEM 1135 General College Chemistry I+
CHEM 1145 General College Chemistry II+
CIT 1123 Visual Basic+
CIT 1173 C++ Language+ or CIT 2173 Windows® Programming in C++.NET+
CIT 1203 Script Programming+
ENGR 1213 Introduction to Engineering Practices
ENGT 1813 Programming for Engineering Technology+
MATH 2103 Discrete Math+
MATH 2173 Introduction to Ordinary Differential Equations+
MATH 2853 Introduction to Statistics for Engineering & Science+
MATH 2991-6 Special Topics in Mathematics
PHYS 2401 General Physics Laboratory I+
PHYS 2411 General Physics Laboratory II+
PHYS 2434 Physics I for Engineering & Science Majors+
PHYS 2444 Physics II for Engineering & Science Majors+

**Suggested Order of Enrollment**
This plan shows one possible grouping of Program Requirements, and their prerequisite courses, that would allow students to graduate in 2 years. Students must enroll in a combination of General Education and Program Requirements to complete the degree. Consult with the Engineering and Science division advisor each semester to verify that selected courses will fulfill degree requirements. Check the course catalog and/or class schedule for course offering specifics. The “+” symbol represents a prerequisite for the course. Any course offering is subject to change without notice.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>MATH 2113 Calculus &amp; Analytic Geometry I+</td>
<td>MATH 2123 Calculus &amp; Analytic Geometry II+</td>
</tr>
<tr>
<td>Program Elective</td>
<td>Program Elective</td>
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<tr>
<td>3 additional hours</td>
<td>3 additional hours</td>
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<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
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<tbody>
<tr>
<td>MATH 2143 Calculus &amp; Analytic Geometry III+</td>
<td>MATH 2153 Calculus &amp; Analytic Geometry IV+</td>
</tr>
<tr>
<td>Program Elective</td>
<td>Program Elective</td>
</tr>
<tr>
<td>6 additional hours</td>
<td>6 additional hours</td>
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</table>

Program Code 0082-01

Engineering & Science Division