

# Math and Sciences

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# Biological Sciences (AA)

**Degree Type:** Associate of Arts Degree—University Parallel Major

**Contact:** Michelle Fisher [mfisher@trcc.edu](mailto:mfisher@trcc.edu)

**Purpose:** Transfer. The Associate of Arts degree, Biological Sciences concentration, is designed for students who plan to transfer to a four-year college or university to major in Biological Sciences.

## FIRST YEAR

Fall Semester			Hours	
ENGL	111	College Writing	3	
GOVT	121	National and State Government	3	
CHEM	121	General Chemistry I	5	
		Humanities Gen Ed course	3	
		Social and Behavioral Sciences Gen Ed course	3	
<b>TOTAL HOURS</b>			<b>17</b>	

Spring Semester			Hours	
ENGL	112	Advanced College Writing	3	
BIOL	190	Biology for Majors <sup>(1)</sup>	5	
HIST	111	American History to 1877 <i>–or–</i>	3	
HIST	112	American History since 1877		
CHEM	122	General Chemistry II	5	
<b>TOTAL HOURS</b>			<b>16</b>	

## SECOND YEAR

Fall Semester			Hours	
BIOL	221	General Zoology	5	
HPER	100	Lifetime Wellness <i>–or–</i> Two P. E. Activity	2	
		Fine Arts Gen Ed course	3	
		Elective	3	
<b>TOTAL HOURS</b>			<b>13</b>	

Spring Semester			Hours	
BIOL	211	General Botany	5	
CPST	290	General Education Capstone	1	
MATH	171	Analytic Geometry and Calculus I	5	
SCOM	110	Public Speaking	3	
		Humanities Gen Ed course	3	
<b>TOTAL HOURS</b>			<b>17</b>	

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

A list of general education courses can be found on the Core Curriculum Transfer (CORE42) General Education Program page.

Electives should be selected from courses that are transfer eligible. Students are urged to consult the course requirements of the college or university to which transfer is contemplated.

# Chemistry (AA)

**Degree Type:** Associate of Arts Degree—University Parallel Major

**Contact:** Dr. Amy Kopf [akopf@trcc.edu](mailto:akopf@trcc.edu)

**Purpose:** Transfer. The Associate of Arts degree, Chemistry concentration, is designed for students who plan to transfer to a four-year college or university to major in Chemistry.

## FIRST YEAR

Fall Semester			Hours	
ENGL	111	College Writing	3	
GOVT	121	National and State Government	3	
CHEM	121	General Chemistry I	5	
SCOM	110	Public Speaking	3	
TOTAL HOURS			14	

Spring Semester			Hours	
ENGL	112	Advanced College Writing	3	
BIOL	190	Biology for Majors	5	
CHEM	122	General Chemistry II	5	
MATH	171	Analytic Geometry and Calculus I	5	
TOTAL HOURS			18	

## SECOND YEAR

Fall Semester			Hours	
MATH	271	Analytic Geometry and Calculus II	5	
PHYS	211	General Physics I	5	
		Humanities Gen Ed course	3	
		Social and Behavioral Sciences Gen Ed course	3	
TOTAL HOURS			16	

Spring Semester			Hours	
CPST	290	General Education Capstone	1	
HIST	111	American History to 1877	3	
HIST	112	American History since 1877		
MATH	272	Analytic Geometry and Calculus III	5	
HPER	110	Lifetime Wellness	2	
HPER		Two P. E. Activity		
		Fine Arts Gen Ed course	3	
		Humanities Gen Ed course	3	
TOTAL HOURS			17	

### Recommended University Parallel Courses

PHYS	212	General Physics II	5	
CHEM	240	Basic Organic Chemistry	5	

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

A list of general education courses can be found on the Core Curriculum Transfer (CORE42) General Education Program page.

# Forensic Science (AA)

**Degree Type:** Associate of Arts Degree—University Parallel Major

**Contact:** Michelle Fisher [mfisher@trcc.edu](mailto:mfisher@trcc.edu)

**Purpose:** Transfer. The Associate of Arts degree, Forensic Science concentration, is designed for students who plan to transfer to a four-year college or university to major in Forensic Science.

## FIRST YEAR

Fall Semester				Hours
CHEM	121	General Chemistry I	5	
CRJU	128	Forensic Science and Criminalists	3	
ENGL	111	College Writing	3	
GOVT	121	National and State Government	3	
PSYC	111	General Psychology	3	
TOTAL HOURS			17	

Spring Semester				Hours
CHEM	122	General Chemistry II	5	
ENGL	112	Advanced College Writing	3	
MATH	171	Analytic Geometry & Calculus I	5	
		Humanities Gen Ed course	3	
TOTAL HOURS			16	

## SECOND YEAR

Fall Semester				Hours
ENGL	221	World Literature to 1600	3	
ENGL	222	World Literature since 1600		
HPER	110	Lifetime Wellness	2	
HPER		Two P.E. Activity		
PHYS	101	Physical Science	5	
SCOM	110	Public Speaking	3	
SOCI	111	General Sociology	3	
TOTAL HOURS			16	

Spring Semester				Hours
ADJU	233	Criminal Investigation	3	
BIOL	190	Biology for Majors	5	
CPST	290	General Education Capstone	1	
HIST	111	American History to 1877	3	
HIST	112	American History since 1877		
		Fine Arts Gen Ed course	3	
TOTAL HOURS			15	

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

A list of general education courses can be found on the Core Curriculum Transfer (CORE42) General Education Program page.

# Mathematics (AA)

**Degree Type:** Associate of Arts Degree—University Parallel Major

**Contact:** Mark Eriksson [meriksson@trcc.edu](mailto:meriksson@trcc.edu)

**Purpose:** Transfer. The Associate of Arts degree, Mathematics concentration, is designed for students who plan to transfer to a four-year college or university to major in Mathematics.

## FIRST YEAR

Fall Semester			Hours
BIOL	100	Survey of Biology	3
CHEM	121	General Chemistry I	5
ENGL	111	College Writing	3
HIST	111	American History to 1877 - or -	3
HIST	112	American History since 1877	
SCOM	110	Public Speaking	3
<b>TOTAL HOURS</b>			<b>17</b>

Spring Semester			Hours
ENGL	112	Advanced College Writing	3
GOVT	121	National and State Government	3
HPER	110	Lifetime Wellness –or- Two P. E. Activity	2
MATH	171	Analytic Geometry and Calculus I	5
Humanities Gen Ed course			3
<b>TOTAL HOURS</b>			<b>16</b>

## SECOND YEAR

Fall Semester			Hours
MATH	271	Analytic Geometry and Calculus II	5
PHYS	211	General Physics I	5
Fine Arts Gen Ed course			3
Humanities Gen Ed course			3
<b>TOTAL HOURS</b>			<b>16</b>

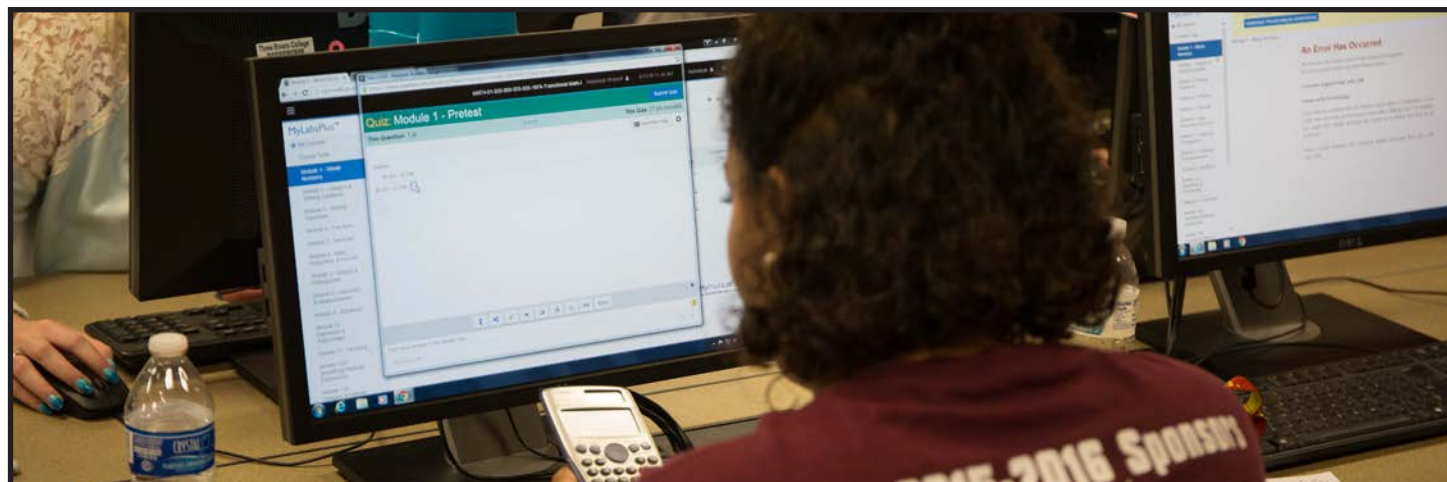
Spring Semester			Hours
CPST	290	General Education Capstone	1
MATH	272	Analytic Geometry and Calculus III	5
PHYS	212	General Physics II	5
Social and Behavioral Sciences Gen Ed course			3
<b>TOTAL HOURS</b>			<b>14</b>

### Additional Math and Science Electives

CHEM	122	General Chemistry II	5
MATH	164	Trigonometry	3
MATH	223	Probability and Statistics	3
PHYS	150	Environmental Geology	3

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

A list of general education courses can be found on the Core Curriculum Transfer (CORE42) General Education Program page.



# Physical Sciences (AA)

**Degree Type:** Associate of Arts Degree—University Parallel Major

**Contact:** Dr. Paul Larson [plarson@trcc.edu](mailto:plarson@trcc.edu)

**Purpose:** Transfer. The Associate of Arts degree, Physical Sciences concentration, is designed for students who plan to transfer to a four-year college or university to major in Physics.

## FIRST YEAR

Fall Semester			Hours	
ENGL	111	College Writing	3	
CHEM	121	General Chemistry I	5	
SCOM	110	Public Speaking	3	
HPER	110	Lifetime Wellness <i>–or–</i> Two P. E. Activity	2	
		Fine Arts Gen Ed course	3	
<b>TOTAL HOURS</b>			<b>16</b>	

Spring Semester			Hours	
BIOL	190	Biology for Majors	5	
ENGL	112	Advanced College Writing	3	
GOVT	121	National and State Government	3	
MATH	171	Analytic Geometry and Calculus I	5	
<b>TOTAL HOURS</b>			<b>16</b>	

## SECOND YEAR

Fall Semester			Hours	
MATH	271	Analytic Geometry and Calculus II	5	
PHYS	211	General Physics I	5	
		Humanities Gen Ed course	3	
		Social and Behavior Sciences Gen Ed course	3	
<b>TOTAL HOURS</b>			<b>16</b>	

Spring Semester			Hours	
CPST	290	General Education Capstone	1	
HIST	111	American History to 1877 <i>–or–</i>	3	
HIST	112	American History since 1877		
MATH	272	Analytic Geometry and Calculus III	5	
PHYS	212	General Physics II	5	
		Humanities Gen Ed course	3	
<b>TOTAL HOURS</b>			<b>17</b>	

### Additional Science Elective

CHEM	122	General Chemistry II	5	
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Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

A list of general education courses can be found on the Core Curriculum Transfer (CORE42) General Education Program page.