

ASSOCIATE OF SCIENCE - MATHEMATICS EMPHASIS

This is a two-year transferable program leading to an Associate of Science with an emphasis in mathematics. This program will provide students with the necessary background in calculus and differential equations needed for a bachelor's degree in mathematics and will also provide the computer science needed for a bachelor of science degree at UNR. All courses recommended will partially satisfy the degree requirements for any of the bachelor's degree options offered by the mathematics department at the University of Nevada, Reno.

Emphasis Outcomes

Students completing the emphasis will:

- Select and apply the appropriate algorithm or methodology to solve mathematical problems.
- Use deductive reasoning to construct mathematical proofs.
- Communicate mathematical information formally through appropriate notation, terminology, and graphical representation as well as communicate mathematical ideas informally using everyday language.

AA/AS degrees are designed for students who plan to transfer to a four-year college or university.

To earn an AA/AS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AA/AS (<http://catalog.tmcc.edu/degrees-certificates/general-education/aa-as>).
4. Have no financial or library obligation to the college.

General Education Requirements

<i>English</i>	3-6
Must include ENG 102 or ENG 114 ¹	
<i>Fine Arts</i>	3
<i>Humanities</i>	3
<i>Mathematics:</i>	[3]
Required:	
MATH 181 Calculus I	4
<i>Science</i>	6
<i>Social Science</i>	3

Additional College Requirements

<i>Diversity</i> ²	[3]
<i>Science</i>	6
<i>U.S. and Nevada Constitutions</i>	3

Degree Requirements

CS 135 Computer Science I	3
CS 202 Computer Science II	3
MATH 182 Calculus II	4
MATH 283 Calculus III	4
MATH 285 Differential Equations	3

Elective Requirements

Select 9 to 12 transferable elective units	9-12
MATH 126 and MATH 127 qualify as elective units; additional units from science courses may count as electives.	

Total Units	60
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¹ If you place into ENG 102 or ENG 114 the additional 3 required units will become elective units.

² Course may also count toward degree requirements. Please consult with Academic Advisement.

Course	Title	Units
1st semester		
CS 135	Computer Science I	3
ENG 101 or ENG 113	Composition I or Composition I for International Students	3
Fine Arts ³		3
Science ³		3
MATH 181	Calculus I	4
Semester Total		16
2nd semester		
CS 202	Computer Science II	3
U.S. and Nevada Constitutions ³		3
ENG 102 or ENG 114	Composition II or Composition II For International Students	3
Science ³		3
MATH 182	Calculus II	4
Semester Total		16
3rd semester		
Elective ⁴		3
Humanities ³		3
Science ³		6
MATH 283	Calculus III	4
Semester Total		16
4th semester		
Select 2 electives ⁴		6
Social Science/Diversity ³		3
MATH 285	Differential Equations	3
Semester Total		12
Total Units		60

³ See approved General Education list for the AA/AS Degree. (<http://catalog.tmcc.edu/degrees-certificates/general-education/aa-as>)

⁴ See program recommendations or requirements.