Associate of Science

Transfer Program<br>Interest Areas:<br>Science, Tech., Engr. and Math

This program leads to careers in teaching, industry, government, actuarial work, or as support for many science disciplines. The mathematics background assumed for entry is four years of high school mathematics through pre-calculus and trigonometry. These entry-level courses, if needed, are also available through the college. Completion of the following courses normally fulfills the first half of bachelor degree requirements in Math. Course selections should be tailored to match requirements defined by intended transfer institutions.

## Contact Information: <br> Math, Computer Science and Engineering Division <br> Seiter Hall, Room 214 <br> Phone: (208) 665-4521 <br> Program Website (https://www.nic.edu/programs/math/)

## Program Requirements

## Code Title <br> General Education Requirements

GEM 1 - Written Communication 6
GEM 2 - Oral Communication 3
GEM 3 - Mathematical Ways of Knowing ${ }^{1} 0$
GEM 4 - Scientific Ways of Knowing ${ }^{2}$ 3-4
GEM 5 - Humanistic and Artistic Ways of Knowing 6
GEM 6 - Social and Behavioral Ways of Knowing 6
GEM 7W - Wellness 1-3
Select one of the following: ..... 3

GEM 7F - First Year Experience
GEM 71 - Institutionally Designated

## Program Requirements

| CS-150 | Computer Science I | 4 |
| :--- | :--- | :--- |
| MATH-170 | Calculus I © | 4 |
| MATH-175 | Analytic Geometry and Calculus II | 4 |
| MATH-187 | Discrete Mathematics | 4 |
| MATH-275 | Analytic Geometry and Calculus III | 4 |
| MATH-335 | Linear Algebra | 3 |
| MATH-370 | Introductions to Ordinary Differential | 3 |
|  | Equations |  |
| PHYS-211 | Engineering Physics I © ws | 5 |
| PHYS-212 | Engineering Physics II | 5 |

## Total Credits

[^0]${ }^{2}$ This General Education Requirement is partially met by the Program Requirements.

## Course Key

| (1) | AAS | $\bullet$ | Gateway |
| :---: | :---: | :---: | :---: |$\quad$ Milestone

## Program Outcomes

Upon completion of the program, students will be able to:

1. Demonstrate fundamental manipulative skills in algebra, geometry, trigonometry, and calculus.
2. Formulate, solve, and interpret mathematical problems using appropriate mathematical language and notation.
3. Investigate and apply mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
4. Communicate mathematical ideas in oral, written, and symbolic forms.
5. Assess and interpret complex situations, choose among several potentially appropriate mathematical methods of solution, and present full and clear solutions that include appropriate justification for their reasoning.

In addition to the program outcomes, students will meet the North Idaho College General Education (GEM) Requirements.


[^0]:    ${ }^{1}$ This General Education Requirement is met by the Program Requirements.

