Associate of Programming, AP

Specialized Associates of Programming Program Learning Outcomes

At the successful conclusion of this program, students completing the **Computer Science track** will be able to:

1. Design, implement, and evaluate computational systems to address needs in a variety of contexts and disciplines.
2. Devise new solutions from foundational principles informed by current practice.
3. Weigh and apply ethical, legal, and social responsibilities in all aspects of practice.
4. Construct effective solutions in teams to accomplish a common goal.
5. Author effective visual, oral, and written communication for a range of audiences.

Students completing the **Data Science track** will be able to:

1. Process and analyze large amounts of data in a compute-efficient manner.
2. Reason about complex problems across heterogenous datasets using compute-intensive solutions.
3. Weigh and apply ethical, legal, and social responsibilities in all aspects of practice.
4. Construct effective solutions in teams to accomplish a common goal.
5. Author effective visual, oral, and written communication for a range of audiences.

Students completing the **Software Engineering track** will be able to:

1. Plan, design, create, measure, and deliver robust software solutions that address contemporary real-world problems.
2. Differentiate and evaluate modern techniques, skills, and tools necessary for professional practice.
3. Weigh and apply ethical, legal, and social responsibilities in all aspects of practice.
4. Construct effective solutions in teams to accomplish a common goal.
5. Author effective visual, oral, and written communication for a range of audiences.