

**Northwest Arkansas Community College**  
Business and Computer Information Systems Division

**Discipline Code**

DASC

**Course Number**

1001

**Course Title**

Programming for Data Science.

**Catalog Description**

(F, S, On Demand) Programming for Data Science (DASC 1001) offers an introduction to the R programming language and its role in statistical computing. This course provides a semester-long introduction to basic concepts, tools, and computer programming R. This class will introduce students to computer programming and provide them with the basic skills and tools necessary to efficiently collect, process, analyze, and visualize datasets. Students will gain hands-on experience using real-world data, finding and utilizing packages, working in both the command-line and GUI environment.

**Prerequisites**

None.

**Corequisites:** PROG 1003 – Programming Logic I.

**Credit Hours**

1

**Contact hours**

15

**Load hours**

1

**Semesters Offered**

Fall, Spring

**ACTS Equivalent**

None.

**Grade Mode**

A-F

**Learning Outcomes**

Students completing DASC 1001 should be able to

- apply basic programming skills to analyze data
- interpret and employ R as a language using correct syntax

- use R across multiple environments
- apply R in data analysis
- find and utilize third-party packages and tools

### **General Education Outcomes Supported**

- Students will demonstrate technological fluency.
- Students demonstrate information literacy.

### **Standard Practices**

#### **Topics list**

N/A

#### **Learning activities**

Assignments and Projects.

This course requires some in class, hands-on work and also additional hands-on work in the virtual or on-campus computer lab.

#### **Assessments**

Homework

Projects

Quizzes

Exams

#### **Grading guidelines**

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = 0 – 59%