

# Northeastern University

**Course:** DA5020  
**Assignment:** Module 4 - Data Import - B  
**Total Points:** 100  
**Date Due:** Posted on Blackboard

## Learning Objectives

In this assignment, you will learn how to:

- read and parse XML
- retrieve data from XML

## Tasks

1. (25 Points) Load the XML document at the URL ([https://www.senate.gov/general/contact\\_information/senators\\_cfm.xml](https://www.senate.gov/general/contact_information/senators_cfm.xml)) directly into a data frame.
2. (50 Points) Write a function *senatorName()* that returns the names of the senators for a given state, i.e., the function takes a state as an argument and returns the names of the senators for that state in a vector.
3. (25 Points) Write a function *senatorPhone()* that returns the phone number for a given senator. The function should take the first and last name of the senator as an argument, parse the name, search for a match in the data frame and return the phone number for that senator.

Be sure to call your functions to test that it works. Use local variables only and pass any information your function needs as parameters.