ABC University Pseudocode

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Define a vector data structure to store course objects.

OPEN the course information file.

READ the first line of the file.

WHILE the end of the file is not reached a.

Parse the line into courseNumber, title, and prerequisites b.

Check if there are at least two parameters on the line c.

Check if any prerequisite exists as a course in file d.

Create a course object with the parsed data e.

Add the course object to the vector data structure f.

Closes the course information file.

Prompts the user to enter a course number.

Searches the vector data structure for the required course number.

IF the course is found, print out the course title and prerequisites.

IF the course is not found, print an error message.

The pseudocode is a representation of what ABCU is looking for in a program. Some changes will need to be made over time. That all depends on the implementation and the details. This pseudocode will be used to load data, store data, parse data, and check for file errors while validating the course prerequisites.