COURSE INFORMATION

Course Number: WEBT 7425

Course Title: Node.js

Course Description: Node.js is an open-source, cross-platform JavaScript run-time environment for executing JavaScript code on a server. In this class you will learn where Node fits into the web application landscape, how to build applications in Node, and come away with a sample application demonstrating what you've learned. This class is a workshop style class, including lectures followed by workshop time, and code along with the instructor.

Suggested Course Prerequisite(s): Introduction to JavaScript, or equivalent experience.

Course Resources: Required textbook: Beginning Node.js by Syed; Apress: 978-1484201886

Student Learning Outcomes:
Demonstrate using Node.js to build applications, developing a sample application.

Certification Notes:

Next course recommendation:

Lesson Plan – by week or session:

Session 1
Javascript Primer / Refresher Javascript Promises
Javascript on the Client v.s. on the Server Git & Code Editor Setup
Node Ecosystem & NPM
Session 2
Running Node
Running files with Node
Working with the file system with Node Creating a bare bones web server
Session 3
Understanding HTTP
Intro to Express web framework
Creating a bare bones web server with Express Serving information from memory
Session 4
Rendering a webpage with custom data Serving static files
Introduction to MongoDB & the Mongoose ORM Talking to a Mongo database with Node
Session 5
Intro to web API design
Good practices when building an API Adding our first resources to our API Testing our API with Postman
Session 6
Adding our second resource to our api Building relationships between resources
Multistage queries and returning proper responses

Course Sessions:
Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Method of Evaluation:
Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and

to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

Refund Policy:
Please refer to www.collin.edu/ce/inforegistrar.html for our refund policy. No refunds after the start time of the first class.

Americans with Disabilities Act:
Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.