**Internet Programming**

**CSC 443 - Section 02**

**Fall 2015**

**Vico Minnocci**

vminnocci@yahoo.com

**Prerequisites:** Successful completion of CSC 212

**Meeting Times**: Sept 2rd – Dec 16th, 2015

Wednesday: 7:35pm – 10:05pm in JE 139B

**Required**

**Resources**:

* + - * **Beginning Node.js** ISBN-10: 1484201884
      * **GitHub account**

**Description:** A study of programming languages used in developing interactive web sites. Basic experience in the full development cycle including: web site conception, client/server side programming, and web site maintenance. Individual programming intensive web projects are required (3 credits).

**Learning**

**Objectives**: The objective of this course is to introduce you to the fundamentals of internet programming and provide you with a hands-on opportunity to explore some of the essential tasks used in the field. After completion of the course, students should:

* + - * Understand the evolution of web server technology
      * Understand why Node.js is important
      * Understand asynchronous programming
      * Be proficient in programming Node.js projects
      * Be able to effectively use GitHub for source control
      * Be proficient in JavaScript
      * Be able to use NoSQL database for persistence
      * Be able to use Angular.js for GUI development
      * Know how to test Node.js applications
      * Know how to deploy Node.js applications

**Organization**: This course will meet once a week for 2 1/2 hour sessions. Normally, the first half of the class will cover the fundamentals of the chosen topic and the second half will provide you with an opportunity to apply what you have learned by completing hands-on laboratory assignments. In addition, a significant amount of learning will take place outside of the classroom through homework and lab preparation assignments.

**Attendance**: Due to the amount of information covered in each class, attendance to all classes (labs and lectures), is mandatory and students are responsible for all material presented in class. Missing classes will certainly influence your final grade, therefore attendance **will** be taken at each class. **You are responsible for the material covered in any class that you miss!! If you miss a lab assignment, you are expected to make it up (quickly, before the lab drive gets wiped).**

**Homework**: All homework and laboratory assignments must be handed in on time to be considered for full credit. Without an extension granted by the professor, late assignments will be deducted 15% of the total value of the homework. Lateness is defined as any assignment not handed in by midnight on the assigned due date.

**Academic**

**Honesty**: Honesty is an absolute on all projects and examinations. Unless an assignment is specifically announced as a group/team/partner project, students are expected to complete all exams and assignments on their own. Examinations or assignments which, in the determination of the instructor, have been copied, will be given a grade of zero, and expulsion from the class and/or university may result. If not expelled from the class/university, all homework assignments handed in thereafter will require an oral exam with the instructor. Any repeated incidence of academic misconduct will result in immediate expulsion from the course with the grade of an “F”. **Please be aware that the student who offers his/her work to another student will receive the same penalty.**

**Presentations:** At least two presentations will be made to the entire class that describe either an assigned topic or a topic of your choosing in the field of internet programming.

**Classroom**

**Policy**: Please be sure to turn off all mobile devices that may interfere with classroom learning.

**Grading**

**Policy**: **Homework & Laboratory Assignments** 60%

**Presentations** 20%

**Attendance, Participation & ATTITUDE!** 20%

**COURSE CONTENT**

This is the intended schedule for the course and is subject to change. Any changes in this schedule will be announced during class and/or posted on Learn 9 Blackboard.

|  |  |  |
| --- | --- | --- |
| **Week** | **Dates** | **Topics** |
| **1** | 2-Sep-15 | Chapter 1: Setting Up for Node.js Development / Lab |
| **2** | 9-Sep-15 | Chapter 2: Understanding Node.js / Lab |
| **3** | 16-Sep-15 | Chapter 3: Core Node.js / Lab |
| **4** | 23-Sep-15 | Chapter 4: Node.js Packages / Lab |
| **5** | 30-Sep-15 | Chapter 5: Events and Streams / Lab |
| **6** | 7-Oct-15 | Chapter 6: Getting Started with HTTP / Lab |
| **7** | 14-Oct-15 | Presentations |
| **8** | 21-Oct-15 | Chapter 7: Introducing Express / Lab |
| **9** | 28-Oct-15 | Chapter 8: Persisting Data / Lab |
| **10** | 4-Nov-15 | Lecturer |
| **11** | 11-Nov-15 | Chapter 9: Front-End Basics / Lab |
| **12** | 18-Nov-15 | Chapter 10: Simplifying Callbacks / Lab |
| **13** | 25-Nov-15 | Chapter 11: Debugging / Lab |
| **14** | 2-Dec-15 | Chapter 12: Testing / Lab |
| **15** | 9-Dec-15 | Chapter 13: Deployment and Scalability / Lab |
| **16** | 16-Dec-15 | Final Presentations |

* **Southern Connecticut State University provides reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, for students with documented disabilities on an individualized basis. If you are a student with a documented disability, the University’s Disability Resource Center (DRC) can work with you to determine appropriate accommodations. Before you receive accommodations in this class, you will need to make an appointment with the Disability Resource Center located at EN C-105A. To discuss your approved accommodations with me or other concerns, such as medical emergencies or arrangements in case the building must be evacuated, please make an appointment to meet as soon as possible.**
* **SCSU is highly committed to providing you with an educational experience that is academically and socially enriching. In line with this mission, we enforce Title IX of the Education Amendment of 1972 which prohibits acts of sexual misconduct (sexual harassment, sexual assault, dating violence, domestic violence and stalking) at educational institutions. To report sexual misconduct students should contact University Police at (203) 392-5375 or 911, and/or Pamela Lassiter, Office of Diversity and Equity, at (203) 392-5491 and/or Christopher Piscitelli, Office of Judicial Affairs, at (203) 392-6188. For advocacy and further information including your Title IX rights and reporting procedures visit the Sexual Assault Resource Team (S.A.R.T.) website at** [**http://www.southernct.edu/SART**](http://www.southernct.edu/SART)**. Please contact Catherine Christy, Women’s Center and S.A.R.T. Coordinator, at (203)392-6946 for assistance or with any questions regarding support and advocacy.**