ADIT 130001 Coding Boot Camp 3 Credits
Boston College Summer Session 2017
July 10 – July 21, 2017
M T W TH F, 1:00 to 4:00 p.m
In-person 1pm to 4pm Mon-Fri (7/10/2017 to 7/21/2017) with online homework through the remainder of the month of July (to be completed at your own pace, on your own schedule)

Instructor Name: Barbara Mikolajczak and Aaron E. Walsh
BC E-mail: barbara.mikolajczak@bc.edu
Phone Number: 617-552-3900
Office: St. Mary’s South, Ground Floor
Office Hours: By Appointment

Boston College Mission Statement
Strengthened by more than a century and a half of dedication to academic excellence, Boston College commits itself to the highest standards of teaching and research in undergraduate, graduate and professional programs and to the pursuit of a just society through its own accomplishments, the work of its faculty and staff, and the achievements of its graduates. It seeks both to advance its place among the nation’s finest universities and to bring to the company of its distinguished peers and to contemporary society the richness of the Catholic intellectual ideal of a mutually illuminating relationship between religious faith and free intellectual inquiry.

Boston College draws inspiration for its academic societal mission from its distinctive religious tradition. As a Catholic and Jesuit university, it is rooted in a world view that encounters God in all creation and through all human activity, especially in the search for truth in every discipline, in the desire to learn, and in the call to live justly together. In this spirit, the University regards the contribution of different religious traditions and value systems as essential to the fullness of its intellectual life and to the continuous development of its distinctive intellectual heritage.

Course Description
During this two-week summer coding boot camp (which is followed by self-paced online exercises to be completed at your own pace, on your own schedule, through the end of July) students are taught the fundamentals of coding using HTML, the markup language that every Web site and many mobile phone apps are built with, and the industry-standard JavaScript programming language. Designed specifically for individuals who have never programmed before (or have very little prior experience), this camp teaches participants how to create their own Web sites from scratch and how to bring them to life with JavaScript.
Do you enjoy SURFING the Web? WATCHING videos? PLAYING video games? Do you have an idea for an iPhone or Android APP? How about a Web site? Have you heard the BUZZ about cutting-edge Virtual Reality (VR) technologies such as Oculus Rift, Samsung Gear, Google Cardboard and Microsoft HoloLens?

Would you like to CREATE these instead of just consuming them?

Coding (programming) is an exciting, lucrative and rapidly expanding field that touches almost every part of our daily lives. Coding skills are in high demand across a wide range of industries. Already a multi-billion dollar phenomenon, the field of coding is growing even larger every single day. Don't miss out: Jump-start your career today!

During this two week summer coding boot camp students will: 1) Use fun and easy-to-use programming tools to express themselves creativity as they learn the fundamentals of coding, 2) Create Web pages using the HTML language that every Web site is built with, 3) Bring Web pages to life with the JavaScript programming language, and 4) Create their very own Google Cardboard Virtual Reality (VR) headset as they explore the fundamentals of VR, video games and 3D computer graphics.

Textbooks & Readings (Required)

Textbooks & Readings (Recommended)

e-Mail Group (Required)

<table>
<thead>
<tr>
<th>Students collaborate through the ADIT 130001 Coding Boot Camp Google Group</th>
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</thead>
<tbody>
<tr>
<td><strong>Group name:</strong> ADIT 130001 Coding Boot Camp</td>
</tr>
<tr>
<td><strong>Group home:</strong> <a href="https://groups.google.com/forum/#!forum/adit-130001-coding-boot-camp">https://groups.google.com/forum/#!forum/adit-130001-coding-boot-camp</a></td>
</tr>
<tr>
<td><strong>Group email:</strong> <a href="mailto:adit-130001-coding-boot-camp@googlegroups.com">adit-130001-coding-boot-camp@googlegroups.com</a></td>
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</tbody>
</table>

Canvas

Canvas is the Learning Management System (LMS) at Boston College, designed to help faculty and students share ideas, collaborate on assignments, discuss course readings and materials, submit assignments, and much more - all online. As a Boston College student, you should familiarize yourself with this important tool. For more information and training resources for using Canvas, click here.

Course Objectives

1. This is an Immersive Education coding "boot camp" that meets in person on Boston College campus for 2 weeks. The two-week in person (on campus) time is followed by online homework and assignment periods ("on your own time") that run through the remainder of the month.
2. Students will develop coding (programming) skills and competencies using the Hypertext Markup
Language (HTML), Cascading Style Sheets (CSS), and JavaScript.

3. Students will develop logical ("programmatic") thinking skills and also creative computing skills as they learn the fundamentals of programming.

4. Students will develop an understanding of the impact that the information age, and programming/coding in particular, has on our modern society and culture.

5. Students will demonstrate ethical knowledge related to a) how programming skills may be used for illicit or nefarious purposes, and b) how certain types of programs, such as immersive Virtual Reality (VR), can border on "addictive."

Grading
The following input will be used in assessing each student’s letter grade for the course:

- Punctual attendance (required). 25% of overall grade.
- Participation in class discussions and exercises (includes both in person and online via Audio Whiteboard, Google Groups and/or virtual worlds). 25% of overall grade.
- Midterm, Quizzes and Drills (note that there is no midterm exam, only a midterm store project that is completed during the in-person portion of the camp; the midterm store project counts as the midterm exam). 25% of overall grade.
- Final posted via blog (note that there is no final exam, only homework exercises that are completed after the in-person portion of the camp; these homework exercises count as the final exam). 25% of overall grade.

The graduate grading system for Summer Session is as follows:

A (4.00), A- (3.67), B+ (3.33), B (3.00), B- (2.67), passing but does not count toward degree, C (2.00), passing but not for degree credit, F (.00)

All students can access final grades through Agora after the grading deadline each semester. Transcripts are available through the Office of Student Services.

Deadlines and Late Work
Assignments are due at the beginning of the class period on the specified dates.

Late assignments will be graded accordingly. Work that is submitted late will receive a late grade penalty of one full letter grade for every 24 hours of time that has elapsed since the work was originally due.

Course Assignments
In addition to in-person classes we will also make use of online chat sessions using Audio Whiteboards, Google Groups, virtual worlds and class blog per outline below.
It is expected that 6 hours per week of your study time out will be spent on out of class assignments and exercises. The nature of these assignments will be in relation to the topic but may vary with topical issues as they arise. Please note that some weeks will require more time and some weeks less time but the average is approximately 6 hours per week over the semester.

Course Schedule
<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Topic</th>
<th>Reading/Assignments</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 11</td>
<td>Introduction, Camp Overview and Fundamentals of Coding</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 12</td>
<td>Hypertext Markup Language (HTML) Fundamentals</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 13</td>
<td>Assembling HTML Web pages into Web &quot;sites&quot;</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 14</td>
<td>HTML Fonts, Colors and Images</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
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<tr>
<td>July 15</td>
<td>Adding &quot;Style&quot; with Cascading Style Sheets</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 18</td>
<td>Bringing HTML Pages to Life with JavaScript</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 19</td>
<td>JavaScript Variables and Objects</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
</tr>
<tr>
<td>July 20</td>
<td>JavaScript Flow Control</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
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<tr>
<td>July 21</td>
<td>JavaScript Graphics and Interactivity (Mouse, Keyboard and Touch-Screens)</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
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<tr>
<td>July 22</td>
<td>JavaScript Virtual Reality (VR)</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
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<tr>
<td>July 23 - July 31</td>
<td>Online Coursework</td>
<td>Online homework to be completed through the end of July 2016</td>
<td>July 31</td>
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**Written Work**

Summer Session students are expected to prepare professional, polished written work. Written materials must be typed and submitted in the format required by your instructor. Strive for a thorough yet concise style. Cite literature appropriately, using APA, MLA or CLA style per your instructor’s requirements. Develop your thoughts fully, clearly, logically and specifically. Proofread all materials to ensure the use of proper grammar, punctuation and spelling. For writing support, please contact the [Connors Family Learning Center](#).
**Attendance**
Attending class is an important component of learning. Students are expected to attend all class sessions. When circumstances prevent a student from attending class, the student is responsible for contacting the instructor before the class meets. Students who miss class are still expected to complete all assignments and meet all deadlines. Many instructors grade for participation; if you miss class, you cannot make up participation points associated with that class. Makeup work may be assigned at the discretion of the instructor. If circumstances necessitate excessive absence from class, the student should consider withdrawing from the class.

Makeup and late assignments will be subject to a late penalty relative to the time of the late submissions. Students who miss than 3 classes are strongly encouraged to withdraw from the course and resume when their schedule allows. Contact the instructor as soon as possible after a missed class.

Consistent with BC’s commitment to creating a learning environment that is respectful of persons of differing backgrounds, we believe that every reasonable effort should be made to allow members of the university community to observe their religious holidays without jeopardizing their academic status. Students are responsible for reviewing course syllabi as soon as possible, and for communicating with the instructor promptly regarding any possible conflicts with observed religious holidays. Students are responsible for completing all class requirements for days missed due to conflicts with religious holidays.

**Accommodation and Accessibility**
Boston College is committed to providing accommodations to students, faculty, staff and visitors with disabilities. Specific documentation from the appropriate office is required for students seeking accommodation in Summer Session courses. Advanced notice and formal registration with the appropriate office is required to facilitate this process. There are two separate offices at BC that coordinate services for students with disabilities:

- **The Connors Family Learning Center (CFLC)** coordinates services for students with LD and ADHD.
- **The Disabilities Services Office (DSO)** coordinates services for all other disabilities.

Find out more about BC’s commitment to accessibility at [www.bc.edu/sites/accessibility](http://www.bc.edu/sites/accessibility).

**Scholarship and Academic Integrity**
Students in Summer Session courses must produce original work and cite references appropriately. Failure to cite references is plagiarism. Academic dishonesty includes, but is not necessarily limited to, plagiarism, fabrication, facilitating academic dishonesty, cheating on exams or assignments, or submitting the same material or substantially similar material to meet the requirements of more than one course without seeking permission of all instructors concerned. Scholastic misconduct may also involve, but is not necessarily limited to, acts that violate the rights of other students, such as depriving another student of course materials or interfering with another student’s work. Please see the [Boston College policy on academic integrity](http://www.bc.edu/sites/accessibility) for more information.