LAB GOALS

- Creating a simple HTML document from scratch.
- Understanding the DOM structure, understating block vs. inline elements
- Use of Head tags (e.g., Title, Meta, etc.)
- Use of Body tags (e.g., header <h1>, paragraph <p>, formatting: bold <b>, italic <i>, etc., special characters, <img>, link/anchor tag <a ..>, ordered and unordered list <ol> <ul>, <li>, horizontal rule <hr>, line brakes <br>, DIV)

Using your text editor (Notepad++ / TextWrangler) create a web page similar to the picture shown below:

```
<html>
<head>
</head>
<body>
</body>
</html>
```

Bachelor of Science in Informatics

Information technology (IT) is rapidly changing the world, creating new challenges and opportunities every day. Informatics equips students to study IT, consider its social impact, and find ways to use technology to solve problems. The aim is to produce qualified information technology professionals who understand the ways people work with and use information, and who can develop solutions that are effective and easy-to-use. Usually, informatics is combined with another field of study or cognate. A number of cognates have been identified, such as bioinformatics, social informatics, business, new media, and health care informatics.

The degree requires a total of 120 credit hours including the following

FUNDAMENTAL LITERACIES:

1. ENG-W 131 English Composition (3 cr.) A grade of C or better is required.
2. Critical Thinking (3 cr.) e.g., PHIL-P 100, P 110, P 150, or P 220
3. Oral Communication (3 cr.) Speech-121
4. Visual Literacy (3 cr.) e.g., INFO-H10, FINA A109, JOUR-J210
5. Quantitative Reasoning (3 cr.) Satisfied by required Mathematics courses
6. COAS-Q 110 Information Literacy (1 cr.) Should be taken with ENG W131
7. Computer Literacy (3 cr.) Satisfied by required Computer Science courses

COMMON CORE (12 Credits). At least one of the following must be at the 300 level

1. The Natural World (3 cr.) e.g., N190 or N390
2. Human Behavioral & Social Institutions (3 cr.) e.g., B190 or B399
3. Literary and Intellectual Traditions (3 cr.) e.g., T190 or T390
4. Art, Aesthetics and Creativity (3 cr.) e.g., A190 or A399

CONTEMPORARY SOCIAL VALUES (3 Credits)

1. Non-Western Cultures (3 cr.) e.g., ANTH E105, POLS Y109
2. Diversity as U.S Society (3 cr.) e.g., SOC S161, HIST H105 or H106
3. Health and Wellness (2 cr.) e.g., HPER N220, NURS B100 plus HPER-E 100-level

LANGUAGE STUDIES (6 Credits)

Two semesters in a single language, or equivalent

Step 1: Start with a simple HTML web site similar to figure below:
```
<html>
<head>
</head>
<body>
</body>
</html>
```
Step 2: Place the following documentation lines in the HTML file, right below the <DOCTYPE html>

Your name
CSCI-A 340 Introduction to Web Programming
Lab: #
Semester, Year

Step 3: Set the title of the web page to "Informatics at IU South Bend". Then set the keywords for the page to Bachelor of Science in Informatics, BS in Informatics, Degree Requirement, IUSB, IU South Bend, Indiana University, IT, IT Jobs. Finally make sure the character set for the web page is set to UTF-8.

Step 4: Create a document heading "Bachelor of Science in Informatics". Make sure the heading is centered, and has the largest header tag available.

Step 5: Place the following introductory paragraph below step 4. Make sure it is left justified and it is also emphasized.

Information technology (IT) is rapidly changing the world, creating new challenges and opportunities every day. Informatics equips students to study IT, consider its social impact, and find ways to use technology to solve problems. The aim is to produce qualified information technology professionals who understand the ways people work with and use information, and who can develop solutions that are effective and easy-to-use. Usually, informatics is combined with another field of study or cognate. A number of cognates have been identified, such as bioinformatics, social informatics, business, new media, and health care informatics.

Step 6: Include the following image below step 4 and to the right of the paragraph is step 5.

[Image: https://eval.iusb.edu/img/campus4.jpg]

Step 7: Create a combination of ordered and unordered lists to capture the degree requirements for the BS in Informatics.

The degree requires a total of 122 credit hours including the following:

FUNDAMENTAL LITERACIES:

1. ENG-W 131 English Composition (3 cr.) A grade of C or better is required.
2. Critical Thinking (3 cr.) e.g., PHIL- P 105, P 110, P 150, or P 250
3. Oral Communication (3 cr.) SPCH-S 121
4. Visual Literary (3 cr.) e.g., INFO-I310, FINA A109, JOUR J210
5. Quantitative Reasoning (3 cr.) Satisfied by required Mathematics courses
6. COAS-Q 110 Information Literacy (1 cr.) Should be taken with ENG W131
7. Computer Literacy (3 cr.) Satisfied by required Computer Science courses

COMMON CORE (12 Credits). At least one of the following must be at the 300 level.

1. The Natural World (3 cr.) e.g., N190 or N390
2. Human Behavior & Social Institutions (3 cr.) e.g., B190 or B399
3. Literary and Intellectual Traditions (3 cr.) e.g., T190 or T390
4. Art, Aesthetics and Creativity (3 cr.) e.g., A190 or A399

CONTEMPORARY SOCIAL VALUES (8 Credits)

1. Non-Western Cultures (3 cr.) e.g., ANTH E105, POLS Y109
2. Diversity in U.S. Society (3 cr.) e.g., SOC S161, HIST H105 or H106
3. Health and Wellness (2 cr.) e.g., HPER N220, NURS B109 plus HPER-E 100-level

LANGUAGE STUDIES (6 Credits)

Two semesters in a single language, or equivalent.

PHYSICAL & LIFE SCIENCES (13 Credits). Courses in at least two different sciences must be taken.

- N190 or N390 (3 cr.)
• Electives chosen from astronomy, biology, chemistry, geology, and physics. (10 cr.)

MATHEMATICS (6 Credits). A grade of C or better in each course is required.

• MATH-M 118 Finite Mathematics (3 cr.)
• 300 level Statistics approved by the informatics director (3 cr.)

INFORMATICS (34 Credits). A grade of C- or better in each course is required. At least 22 of the 34 credits must be taken within Indiana University.

Thirty-four credit hours in Informatics, to be satisfied with the following core and elective courses: Core:

• INFO-I 101 Introduction to Informatics (4 cr.)
• INFO-I 201 Mathematical Foundations of Informatics (4 cr.) or CSCI-C 251
• INFO-I 202 Social Informatics or SOC-S 260
• INFO-I 210 Information Infrastructure I (4 cr.) or CSCI-C 101
• INFO-I 211 Information Infrastructure II (4 cr.) or CSCI-C 201
• INFO-I 308 Information Representation (3 cr.)

Two of the following four courses:

• INFO-I 300 Human-Computer Interaction (3 cr.)
• INFO-I 303 Organizational Informatics (3 cr.)
• INFO-I 310 Multimedia Arts and Technology (3 cr.)
• INFO-I 320 Distributed Systems and Collaborative Computing (3 cr.)

Capstone:

• INFO-I 450/451 Design & Development of an Information System (or CSCI-C 308/CSCI-C 442)

Electives: at least 6 credits chosen from Informatics electives (300 level or higher). Prerequisite courses may be required.

COGNATE AREA (approximately 15-18 Credits)

Course in your area of interest chosen with the consent of your advisor and the director of informatics

GENERAL ELECTIVES (approximately 3 Credits)

Step 8: Create the following links:

| Home       | http://informatics.iusb.edu/ |
| Courses    | http://www.cs.iusb.edu/Informatics_courses.html |
| Advising   | http://www.cs.iusb.edu/Advising/Informatics_Advising_Sheet.xls |
| Faculty    | http://www.cs.iusb.edu/people/faculty.html |

Step 9: Create 3 block elements: (e.g., div or table)

1) Header
2) Top Navigation
3) Content

Place the elements produced in step 4 in the Header block. (900 pixels wide)
Place the elements produced in step 5, 6, and 7 in the Content block. (900 pixels wide)
Place the elements produced in step 8 in the Top Navigation block. (900 pixels wide)

Step 10: Validate your HTML file by using the W3C validation service. (http://validator.w3.org/). Try to remove as many of the errors as you can.