

## **CNMT 100-1 & 2 Principles of Computing Syllabus (Fall, 2018)**

**Instructor:** Eric Watson

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**Office hours:** Tuesday and Thursday 9:30 AM to 10:30 AM or by appointment

**Classroom** {B348 Tuesday, Thursday}

**Time(s):** 11:00 AM – 12:15 PM; 12:30 PM – 1:45 PM

**Bulletin description:** Explore the foundations of modern computing to include the creation of computational artifacts, the internet, big data, digital privacy and security, algorithms, programming, and the societal impacts of computing.

**Required Text:** *Understanding Computers in a Changing Society, 6e*, Cengage Publishing ISBN 13:978-1285677710.

**Disability Statement:** UWSP provides students with disabilities reasonable accommodation to participate in educational programs, activities or services. Students with disabilities requiring accommodations to participate in class activities or meet course requirements should contact me as early as possible. If you have a disability or acquire a condition during the semester where you need assistance, please contact the Disability and Assistive Technology Center on the 6<sup>th</sup> floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or [DATC@uwsp.edu](mailto:DATC@uwsp.edu).

### **Teaching Methods:**

- I will use a variety of methods to teach this course including traditional lecture, class discussion, and presentation of videos.
- A variety of assignments will be used for application of the material including objective quizzes, tests, and a final exam.
- No phones are to be used with the course.

### **Course Objectives/Student Objectives:**

**As a result of being enrolled in this course, students will be exposed to information that covers the following topics. Thus, students will be expected to demonstrate an understanding of the following:**

- To understand what a computer is, its components, and its history.**
- To understand the input and output devices of a computer.**
- To understand how the internet works.**
- To be able to identify the personal safety risks associated with Internet use.**
- To be able to list several types of electronic surveillance and monitoring.**

- ❑ To understand the different types of intellectual property rights related to computer use.
- ❑ To be able to list types of assistive hardware that can be used by individuals with physical disabilities.
- ❑ To understand what is meant by the term artificial intelligence and some AI applications.
- ❑ To be able to write a program or algorithm using python.

### **Student Expectations:**

It is expected that you will attend class, read the chapters in a timely fashion, and actively participate in your own learning. However, I do not grade on attendance, or dramatic improvements in your test scores.

I also expect that you will let me know when I am not clear, or you are having difficulty understanding the material. Silence will be interpreted as “understanding.” I view learning as a partnership among the students and the instructor. We can also benefit from each other, and we all have valuable contributions.

### **Special Assistance:**

Please let me know early if you are having difficulty with the course content. We can arrange to meet as often as needed or use a math tutor via the department.

### **Getting the most out of the course:**

Studying and learning styles are very personal. Use your personal skills to get the most out of this course.

### **Approximate Points Available for the class**

Test 5@ 100 approximately points each.....500  
 Quiz 8 @ 10 approximately points each .....80  
 Other class work including programming.....200  
 Total class points will be approximately 780-1000

### **Grading Scale:**

A: 95-100%    A-: 91-94%    B+ 87-90%    B 84-86%    B- 80-83%    C+ 77-79%

C 74-76%    C-: 70-73%    D+ 67-69%    D 64-66%    D- 62-63%    <62% = F.

**\*I will consider “rounding up” if you are within .05 of the next highest grade AND actively participated in class, attended regularly, etc.**

### **Tentative Outline:**

The instructor reserves the right to adjust the outline according to the needs of the class. This information will be communicated either in class or via email. I attempt to adhere to the sequence of topics presented in each chapter during class discussion/lecture.

Topics from the text book will be done in order

CH 1 Introduction to the world of Computers	Python data types
Quiz CH 1	
CH 2 A closer look at hardware and software	Python variables
Quiz CH 2	
Test over CH 1 & 2	
CH 3 The internet and the World wide web	Python simple I/O
Quiz CH 3	
CH 4 Network and internet security	
Quiz CH 4	Python Branching if
Test over CH 3 & 4	
CH 5 Computer security and privacy	
Quiz CH 5	
CH 6 Intellectual Property rights and ethics	Python Branching elif
Quiz CH 6	
Test over CH 5 & 6	
CH 7 Health, Access, and the Environment	Python While loops
Quiz CH 7	
CH 8 Emerging Technologies	Python For loops
Quiz CH 7 & 8	
Test 7 & 8	
Binary and hexadecimal numbers, ASCII table	Python Strings
Programming with python assignments	Putting in all together with python with programming assignments
Final	

**Professional Behavior in the Classroom: Laptops and cell phones are not allowed. Turn you cell phones OFF and put them out of sight. If you have an emergency and need your cell phone let me know before class. Cell phone use is rude and distracting and associated with poor academic performance**

**<http://www.medicalnewstoday.com/articles/269882.php>**

**[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1595375](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1595375)**

<http://www.degruyter.com/view/j/sigtem.2011.4.issue-1/v10195-011-0039-0/v10195-011-0039-0.xml>

**I also find it rude and distracting when students are obviously attending to material not related to this class; this includes reading other books, writing in planners, and sneaking looks at cell phones, etc. **If you don't want to be in class, don't come.** I will also stop class and ask you to put your cell phone, planner, etc., away if I do see it in use.**