Instructor: Yelena Shvets, Ph.D.
Office: 301A (inside 300) Payson Smith Hall, Portland
115I Baily Hall, Gorham
Office Hours: By appointment Mon., Wed. -- Gorham; Th. -- Portland
E-mail: yelena.shvets@maine.edu
Website: http://people.usm.maine.edu/yshvets/
Portland Math Dep.: 780-4608
Gorham Math Dep.: 780-5360

Text: Discrete Math, by Sandy Irani (required textbook.)
This is a fully online interactive text published by zyBooks. You may try out this
format by creating an account with https://zybooks.zyante.com/#/students
This gives you access to the first chapter of every zyBooks text. The code for our
customized version of Discrete Math is: MaineCOS280Fall2015

Course Description: We will continue exploring Proof techniques, review the
basics of Set Theory, study Functions. Relations, Partial Orders, Graphs and
Digraphs with their applications to Computer Science. We will revisit Induction and
Recursion introducing tree-based techniques. These ideas will be used to analyze
algorithm performance. Time permitting, we will use basic Number Theoretic ideas
to investigate elementary Cryptography.

Prerequisite: Successful completion of MAT 145, MAT 152 and familiarity with at
least one programming language.

Communication: You may contact me using your University of Maine email
accounts. I will respond to e-mails Monday-Thursday during regular business hours
(9 am - 5pm), usually within 24 hours.

Grading: You will be encouraged to complete the reading and participation
activities before class. The additional challenge problems will be due weekly
together with your lab assignments. In addition there will be bi-weekly quizzes
with material based on the homework and labs. There will be one midterm and a
comprehensive final exam. Course score will be computed as follows:

.1 * Participation Problems + .2 * (Challenge Problems & Labs) + .2*Quizzes +
.2*Midterm Exam + .3*Final Exam

The lower of quiz or the midterm score may be replaced with the final exam score.

Letter grades will be assigned according to the following distribution:
A  90-100
B  78-89
C  65-77
D  51-64
F  50 or below
ADA: Students who need accommodations due to a disability are encouraged to notify the instructor early in the semester and to contact the Office of Support for Students with Disabilities, Luther Bonney 242, 780-4706.

Important Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 31</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>September 7</td>
<td>Labor Day</td>
</tr>
<tr>
<td>September 13</td>
<td>Last day to drop for full refund</td>
</tr>
<tr>
<td>October 12 – 13</td>
<td>Fall Break</td>
</tr>
<tr>
<td>October 22</td>
<td>Midterm Exam</td>
</tr>
<tr>
<td>November 4</td>
<td>Last day to drop with a W</td>
</tr>
<tr>
<td>November 25 – 29</td>
<td>Thanksgiving Break</td>
</tr>
<tr>
<td>December 11</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>December 12 – 18</td>
<td>Final’s week</td>
</tr>
</tbody>
</table>

Exam Information: Calculators are not permitted for the Midterm Exams but will be permitted during the Final Exam. Make-up exams will have to be prearranged with the instructor.

Academic Integrity: Any actions intended to promote or enhance the academic standing of the student by dishonest means (e.g., cheating, plagiarism, fabrication and academic misconduct) are classified as violations of academic integrity. Such actions may precipitate an investigation and a subsequent penalty. Please refer to the UMS Student Code for definitions and procedures. However, collaboration on homework and study groups for exams are encouraged.