DMCP 160NU: NUMERACY FOR STATISTICS AND MEASUREMENT

DMCP 160NU (#66636)  
TTh, 2:30 – 3:40 pm, Aptos 913  
Course Holidays: 3/29–4/3 spring break, 5/31  

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Office Hours:  
MW 2:30 – 3:40 pm Aptos 710G  
TTh 1:30 – 2:30 pm Aptos 710G

Textbook: We don't have one. You will want a 3-ring binder to organize your course materials.

Introduction  
This course is intended to “jump start” digital bridge students into mathematics. We will work on math ideas that will help you complete your social justice projects, and review some of the arithmetic you have been exposed to earlier in your lives. Our goal is to have you “algebra ready” by the end of the semester.

Attendance  
You will be expected to attend every class. No late work will be accepted. If you need testing accommodations, please let me know. The MLC may be available for separate testing.

Student Assessments  
There are four main ways your work will be evaluated: weekly homework, special assignments, arithmetic tests you will take on “Blackboard”, and in-class tests. For the class to make sense to you, and to be successful in it, you need to be working on your homework daily. Unfortunately, cramming or devoting long weekends to studying math doesn’t work very well as a method for learning. Even if you have to miss a class, I expect you to do the homework for that day. If you spend time on the homework, and keep up with the work, you should succeed in this course.

Grading  
Letter grades are assigned as follows:  
A: 90-100  B: 80-89  C: 70-79  D: 60-69  F: 59 and below

Learning Outcomes  
1. Analyze and develop statistical measures used in community surveys, explore visual presentation of data.  
2. Explore various forms of measurement and the situations for which they are used.

Course Objectives  
1. Analyze and create data collection instruments.  
2. Create visual presentations of data by hand and with computer software.  
3. Calculate and understand the uses of fractions and proportions.  
4. Interpret and find errors in visual representations of statistics.  
5. Perform and interpret probability calculations.  
6. Compare and contrast different types of measurement: linear, area, and volume.  
7. Identify situations where the different units of measurement are used.  
8. Calculate using given formulas.  
9. Interpret errors in measurement.

Resources:  
I have web pages for the class at http://www.cabrillo.edu/~mladdon. Your quizzes will be posted in Blackboard.
DBA Traits of Successful Students

By mastering the following, you will be adhering to the key rules and policies of the DBA:

- Show respect for yourself and others
- Cultivate patience and compassion. Developing yourself as a professional can be challenging inner work.
- Develop and follow the Traits for Successful Students (see below)

One of the major goals of the Academy is to help you become a successful student. We’ve found that if students develop the traits listed below, they will achieve success in school. These traits will also bring success in your work, your long-term career, and your daily life. In order to help you develop these traits, we’ve created Academy policies that re-enforce them. All Academy faculty members follow these policies in their classes. You will receive feedback on the following traits during the semester because these behaviors are as important to your career success as your academic and life skills abilities.

Trait #1: Successful students attend every class.

Successful students are dependable. College work is much more intense than high school. In the past, students who have missed class have found that it’s very difficult to catch up. The Academy is special because all of the classes are linked and work together.

Nonetheless, we also know that illness occurs and emergencies happen. If you have to be absent because of an illness, a death in the family, an ill child, childcare problems, official government appointments, or an accident on the freeway, please phone or e-mail your instructor and explain why you won’t be in class. Also, please call someone in your study group to find out what you missed. You’ll be expected to have all your missing work completed and be caught up by the next class.

If you leave class early without discussing this with the faculty and receiving approval before the class begins this will be counted as a full or partial absence.

Exceeding your absence limit, in any one of your classes, will lead to a meeting with that instructor or being called in to a faculty meeting if your absences are occurring in all Academy classes. If this issue cannot be resolved, you may be asked to leave the Academy. According to Cabrillo College policy, instructors have the right to drop students with excessive absences. To succeed, you need to be here. You need to come to all of your classes, not just some of them. Check individual syllabi to find out what each instructor considers excessive and to learn about the consequences and penalties for absences as these may differ from class to class.
Trait #2: Successful students come to class on time.

Successful students are ready to learn when class begins. As a matter of fact, they usually get to class early. The Academy considers being tardy arriving after the class has started. Three tardies, in any one of your classes, will lead to a meeting with that Instructor and possibly count as a cumulative absence.

Trait #3: Successful students take exams.

Sometimes an unavoidable absence may prevent you from taking a scheduled exam. Contact your instructor in advance if you cannot be present during a scheduled exam. You are responsible for making up any missed exam if your Instructor allows it.

Trait #4: Successful students are prepared for class and complete their homework on time.

Successful students are ready to learn, care about school, are prepared and organized, and make and keep agreements. You’ll succeed in the Academy if you focus on completing all of your assignments on time. Unlike other classes at Cabrillo, Academy instructors coordinate the scheduling of your homework and the due dates for big projects. We have given you a college-level workload, one that we know you can handle.

Be Prepared for Class – Tools Needed

• Course syllabi, which has the assignments and readings for your courses
• Books and other reading materials
• Handouts needed to complete assignments
• 3-ring binder with dividers to neatly store and organize assignments, etc.
• Lined paper and writing utensils: pens and pencils
• Patience. Kindness. Hard work.

Trait #5: Successful students do their own work.

Using someone else’s words, work, or ideas is considered plagiarism, and it is against the rules of both the DBA and at Cabrillo College.

The plagiarism policy, from the Cabrillo College Catalog, is as follows:

“Plagiarism is the conscious or inadvertent failure to identify the contributions of others. It occurs when someone borrows any part of another’s work and submits it, uncredited, as his or her own work. A failure to credit others may result in one or more of the following: a student receiving a failing grade on the assignment, a failing grade for the course, or suspension from college enrollment. Students are expected to know how to credit sources, how to quote and paraphrase, and how to avoid plagiarizing the work of others. If you are unsure, ask your instructor for assistance before you submit your work for credit.”

For example, if you write an essay yet cut and paste someone else’s ideas and pretend these ideas are your own, or if you have someone else type/do your homework for you, or if you complete a homework assignment and your answers are very similar to another student’s, this may be
considered plagiarism and may result in the consequences listed in the previous paragraph. Cabrillo has a website on recognizing and avoiding plagiarism: http://www.cabrillo.edu/services/writingcenter/Plagiarism.html.

**Trait #6: Successful students pay attention in class, stay focused, and do not distract others from doing their work.**

You’ll get the most out of your classes if you concentrate and stay engaged, share in class, respect others in the class, and openly acknowledge the help others give to you. When you engage in distracting behavior, you prevent yourself from learning and can cause problems for other students too. **Disruptive behavior is anything that disturbs other students so they can’t learn or disturbs the faculty so we can’t teach.**

Here are some examples:

- Text messaging or using any other electronic devices during class time (including during computer activities or film screenings)
- Participating in side conversations while someone else is talking
- Interrupting others, swearing in class, or leaving class early
- Talking out loud during quiet time or reading magazines during class
- Putting down, making fun of classmates or the teacher, name calling, or using a rude tone.
- Making sexual innuendos
- Leaving in the middle of class to feed the parking meter or move your car
- Taking frequent or excessively long bathroom breaks; using bathroom breaks to make phone calls or for texting
- Packing your backpacks before class is officially over
- Doing your homework or studying for another class during class time
- Cheating or copying another’s work during quizzes or tests
- Arriving intoxicated to class
- Having headphones in your ears during class discussions
- Bringing food to class. Finish your snacks or meals before class begins. Some beverages may be okay in some classrooms, so check with your instructor.

Remember, these are only examples, and we haven’t thought of everything. The instructor will determine whether a behavior is a distraction to students or teacher. We have zero tolerance for physical violence or threats, and any form of inappropriate comments or harassment—including sexual, racial, etc.—can lead to immediate expulsion from the Academy.

**A NOTE ON CELL PHONES:**

**Cell phones should be turned off during class.** If you have a sick child or some other emergency that requires that your phone stay on, tell your instructor in advance, before class begins, and set the phone to vibrate. Remind the instructor quietly why you have to take the call and leave the room to talk. Return as soon as the call is complete.
If you find that you are having trouble paying attention in class and staying engaged, don’t hesitate to talk to Academy faculty about it. We have lots of tricks to share with you about how to get the most out of your classes. We also have sympathetic ears and want to know about whatever may be going on that’s preventing you from focusing. **Successful students get enough sleep and eat a balanced diet.**

**Handling Disruptive Behavior:**

The following are the steps taken in the Academy to deal with disruptive behaviors. Faculty may skip steps if they feel a situation warrants it.

1. When you do something that is disruptive, Academy faculty will call it to your attention. The instructor may offer to help you find strategies for avoiding the behavior, especially if it is a habit.

2. If the disruptive behavior occurs a second or third time, you’ll be given warnings and reminders of the consequences of continuing that behavior.

3. Should the disruptive behavior continue (despite the above warnings), you may be asked to leave class that day; this will be counted as a partial or full absence. You may also need to come to the Academy faculty’s weekly meeting to discuss your written answers to questions about what can be done to help you improve your behavior.

4. **If disruptive behavior continues after you have attended a faculty meeting, you may be dropped from the Academy and/or referred to the Dean of Student Services, who will follow up with a “Disruptive Behavior” written report.**

**Additional Important Cabrillo College Statements:**

**Students with Disabilities:** "All students needing accommodations should inform the instructor ASAP. Veterans may qualify for accommodations. Wounded Warriors may have acquired injuries which through the American with Disabilities Act (ADA) entitles the use of accommodations to ensure equal opportunity for students with verified disabilities. To determine if you qualify or need assistance with an accommodation, please contact Disabled Student Services, Room 810 (479-6379) or the Learning Skills Program, Room 1073, (479-6220)."

**Drug-Free Environment:** "Cabrillo College is committed to providing students and employees alike with a drug-free environment for both work and study. All members of the college community are encouraged to be actively involved in the prevention of alcohol and other drug abuse. Prevention, education, and early intervention programs are available, along with counseling and referrals to appropriate mental health and medical services."

**Students are expected to abide by the above policies in all DBA courses**