This syllabus is a contract between the student and the instructor. By enrolling in and then attending this course, the student agrees to and accepts the terms and conditions of this contract. It is the responsibility of the student to carefully read this syllabus/contract in its entirety and to adhere to all policies and procedures within the syllabus.

**PROFESSOR:** Patrick Murphy  
**PHONE:** 407-582-2482  
**OFFICE:** Building 8, Room 257  
**EMAIL:** pmurphy2@valenciacollege.edu  
**WEBSITE:** http://faculty.valenciacollege.edu/pmurphy2/  

Send emails to me by using the above email address. Attachments should be less than 10 MB per email. Students should check their Atlas email frequently and should not have their Atlas emails forwarded to another email account.

**STUDENT ENGAGEMENT HOURS:** My office is in building 8, room 257.

- Mon/Wed       1:30 pm –  2:30 pm  (EMAIL)
- Mon/Wed   3:00 pm -  4:15 pm  (OFFICE)
- Tue/Thur 2:30 pm –  3:30 pm  (EMAIL)
- Tue/Thur        4:00 pm –  5:15 pm  (OFFICE)
- Sat       4:00 pm –  5:00 pm  (EMAIL)

College meetings may interfere with the times posted, therefore it is wise to call/email before making a special trip to my office. Email is the best way to get in contact with me. Do not feel restricted by the above times: email me at any time and I’ll try to get back with you as soon as I can. Include in your emails the days/times that we meet for class. Also include your Valencia Identification Number (VID#) when discussing your grades.

**REQUIRED MATERIALS:**
  BY: Bock, David | Bullard, Floyd | De Veaux, Richard | Velleman, Paul  
  Textbook ISBN-10: 0134685768
- A TI-83 or TI-84 graphing calculator is required for this course. Students are not allowed to borrow or “share” calculators, and cell phones or calculator applications (apps) on other electronic devices are not allowed during any in-class examination.

**COURSE DESCRIPTION:** An introductory statistics course covering collection, description and interpretation of data. Topics include sampling, summarizing data graphically and numerically, probability distributions, confidence interval estimation, hypothesis testing, correlation and regression. Gordon Rule course. Minimum grade of C is required if STA 2023 is used to satisfy Gordon Rule and general education requirements.

**PREREQUISITE:** Minimum grade of C in STA 1001C, MAT 1033C or MAC 1105 or satisfactory score on an approved assessment.
HOMEWORK: Below is a homework schedule for the textbook. This homework will not be graded, but the student is still expected to complete all exercises of a topic after the topic is covered in class. “Test Practice Multiple Choice” handouts are sent to you via email at the beginning of the semester, and other handouts are also provided in class throughout the semester and should be treated like homework, i.e., work out the exercises! Note: “HOMEWORK” is different from take-home “QUIZZES” (see the QUIZZES section of this syllabus).

STA 2023 Homework List Bock//Bullard/Velleman/De Veaux 5th Edition

Answers to the odd exercises can be found in the back of the textbook.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>p. 10 # 1, 3, 7-25 ODD (you do not have to identify the W’s)</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>p. 68 # 5-37 ODD, 41, 43, 45, 47, 51, 53, 55</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>p. 31 # 5-17 ODD</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>p. 91 # 5-17 ODD, 23, 25, 27bcd, 31</td>
</tr>
<tr>
<td>Chapter 11</td>
<td>p. 297 # 1, 3, 7-29 ODD, 33, 35</td>
</tr>
<tr>
<td>Chapter 12</td>
<td>p. 325 # 1, 3, 5, 7-15 ODD and part a, e and g only, 17, 37, 45</td>
</tr>
</tbody>
</table>

TEST 1: Descriptive Statistics, Study Design

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 5</td>
<td>p. 127 # 1, 3, 7-49 ODD</td>
</tr>
<tr>
<td>Chapter 17</td>
<td>p. 463 Proportions: # 1-31 ODD</td>
</tr>
<tr>
<td>Chapter 17</td>
<td>p. 467 Means: # 33, 35, 37, 39, 49-59 ODD</td>
</tr>
</tbody>
</table>

TEST 2: Basic Normal Curves X and Z, Sampling Distributions \( \hat{p} \) and \( \bar{x} \)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 18</td>
<td>p. 488 # 1-27 ODD, 35</td>
</tr>
<tr>
<td>Chapter 19</td>
<td>p. 512 # 1-33 ODD</td>
</tr>
<tr>
<td>Chapter 20</td>
<td>p. 537 # 1, 3, 5, 9-19 ODD, 35ab</td>
</tr>
<tr>
<td>Chapter 22</td>
<td>p. 597 # 1-15 ODD, 19abc, 21-29 ODD, 35-45 ODD, 51, 53</td>
</tr>
</tbody>
</table>

TEST 3: Confidence Intervals for Proportions, One-Sample Hypothesis Tests (means and proportions), t-distributions, Confidence Intervals for means with unknown \( \sigma \)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 6</td>
<td>p. 164 # 1-11 ODD, 15-43 ODD</td>
</tr>
<tr>
<td>Chapter 7</td>
<td>p. 195 # 1, 3, 5, 7, 11, 17, 21, 25, 27, 29, 31, 37, 41, 45acde, 47, 49, 57abcdf, 39</td>
</tr>
</tbody>
</table>

Read Chapter 6 (Scatterplots, Association, Lurking Variable and Correlation)

Read Chapter 7 (Linear Regression)
EXTRA CREDIT: Students asking for extra credit will not receive any. On VERY RARE occasions, the instructor may decide to provide extra credit for attendance on certain days of class (one or two points) or for other reasons. This decision is solely up to the instructor, and there is a distinct possibility that extra credit will not be provided at all during the semester. Basically, students should not expect extra credit for the course.

QUIZZES: There will be 4 take-home quizzes given throughout the semester, each worth 25 pts. Quizzes are posted in a PDF file format on my website (see page 1 of this syllabus) and are not provided in class. They are not “taken online” but are just handouts that I didn’t photocopy for you. Part of your responsibilities for the first day of class is to see if you can access the first take-home quiz from my website pertaining to this course (also, see if you can print it out). Quizzes are to be completed at home and turned in on the due date. Quiz due dates will be announced in class. The goal of the student should be to turn in the quiz during class on the day it is due. Technically, quizzes will be accepted only if any of the following are satisfied:

1. Received by the instructor in person no later than 11:59:59 pm on the due date.
2. Received by the instructor via email or fax no later than 11:59:59 pm on the due date. Attachments should be less than 10 MB per email.
3. Received by the Valencia College East Campus Mathematics Department (building 7, room 142) before they close on the due date.

Quizzes slid under my office door will NOT be accepted (a grade of zero points). Late quizzes will NOT be accepted (a grade of zero points). Your lowest quiz score will be dropped. If you receive a zero for academic dishonesty then that quiz score will not be dropped and the next lowest quiz score will be dropped instead. There are no make-up quizzes (except for pregnancy complications, jury duty or military service excuses only, with proper documentation required): the dropping of your lowest quiz score is designed for emergencies such as your car breaking down, you getting sick, a death in the family, etc. You may work with other students, go to the tutoring center or see your instructor regarding how to solve the exercises on the take-home quizzes. However, your submitted work must be written in your own words! Do not copy! (Also, see the Academic Honesty section of this syllabus.)
**TESTS:** There will be 3 tests given throughout the semester, each worth 75 pts. Test dates will be announced in class, and all tests must be taken before (with the instructor's permission) or on dates assigned. A request to take a test earlier at the East Campus Testing Center must be submitted to the instructor at least 48 hours prior to the desired test day/time. There are no make-up tests (except for pregnancy complications, jury duty or military service excuses only, with proper documentation required). If the percentage of the student’s lowest test score is lower than the percentage of his/her Final Exam score, then the percentage of his/her Final Exam score will replace the percentage of his/her lowest test score. This is designed for emergencies but the replacement still occurs even if the student has taken all the tests (and provided that his/her Final Exam percentage is higher). However, if the student receives a zero for academic dishonesty on a test then that test score will not be replaced with the Final Exam, and the next lowest test score will be replaced instead (as described above). The replacement will not occur for more than one test. If the student misses two or more tests then the student may request that the instructor withdraw him/her (also, see the Withdrawal Policy section of this syllabus). The student’s request is mandatory as the withdrawal by the instructor will not automatically occur. This request must be submitted in the following way:

- In an email, that includes the student’s Valencia Identification Number (VID#) and is received by the instructor no later than the Saturday of the last full week of regular class (NOT Final Exam week).

The instructor reserves the right to reassign seating without explanation for any student(s) at any time during a testing/exam situation. All electronic devices, except those as stated by the instructor, must be turned off and put away during any testing/exam situation. Storing notes, formulas, problems, etc. in the calculator is considered academic dishonesty. The instructor also reserves the right to inspect any item on a student’s desk (including calculator memory) during any testing/exam situation.

**FINAL EXAM:** There will be a comprehensive Final Exam given at the end of the semester. It is worth 100 pts. (Also, see how its score affects TESTS.) With the exception of individual arrangements made by the instructor, the Final Exam location is the same as the classroom where you regularly meet and students are required to take the Final Exam at the scheduled examination date and time. The Final Exam date and time are as follows:

<table>
<thead>
<tr>
<th>CRN</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>30304</td>
<td>Saturday, 7/27/2019</td>
</tr>
<tr>
<td>11:00 am - 2:20 pm</td>
<td>11:00 am - 2:20 pm</td>
</tr>
</tbody>
</table>

**GRADING SCALE:**

<table>
<thead>
<tr>
<th>Grading Scale</th>
<th>Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 quizzes</td>
<td>75 pts.</td>
<td>360 and up</td>
</tr>
<tr>
<td>225 pts.</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>3 tests</td>
<td>225 pts.</td>
<td>320 – 359</td>
</tr>
<tr>
<td>225 pts.</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 pts.</td>
<td>280 – 319</td>
</tr>
<tr>
<td>Total</td>
<td>400 pts.</td>
<td>240 – 279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 – 239</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F</td>
</tr>
</tbody>
</table>

Students inquiring about their grades via email must include their Valencia Identification Number (VID#) as well as the days/times that they attend class.

Disputes by students regarding quiz and test grades, as well as extra credit grades (if applicable) must be brought to the attention of the instructor before the course letter grade is determined at the end of the semester.
ATTENDANCE: If you do not attend the first week of class, you will be withdrawn from the class by the instructor as a “No Show”: no refund and course appears as “W” or “withdrawal”/Attempt on Transcript. Also see the WITHDRAWAL POLICY section of this syllabus for more information regarding the “W” grade. Attendance will be taken every day but does not factor into your course letter grade except in the very rare case of extra credit (see below). You are expected to arrive on time and not leave early. Please consult your instructor prior to class if you anticipate arriving late or if you must leave early. Students, whether present or not, are responsible for all class materials and any announcements made in class.

DROP/REFUND DEADLINE: 11:59 pm, May 13, 2019
Students that do not drop this course are, by default, agreeing to the terms set forth in this syllabus.

WITHDRAWAL POLICY: A student who withdraws (no refund) from the course before the withdrawal deadline of 11:59 pm, July 5, 2019, will receive a grade of “W”. Students cannot withdraw themselves after this withdrawal deadline. The instructor will not withdraw students except as outlined in the ATTENDANCE and TESTS sections of this syllabus. Students who are not withdrawn will be assigned whatever grade was earned for the course as their final grade. A student who receives a grade of “W” will not receive credit for the course, and the “W” will not be calculated in the student's grade point average; however, the enrollment will count in the student's total attempts in the specific course. Any student who withdraws or is administratively withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F”. For a complete policy and procedure overview on Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals) please go to: http://valenciacollege.edu/generalcounsel/policy/documents/Volume4/4-07-Academic-Progress-Course-Attendance-and-Grades-and-Withdrawals.pdf Additionally, students may consult an advisor at The Answer Center located in building 5, room 211. Note that receiving a grade of “W” may affect financial assistance and scholarships, and may affect the status of international students (see below).

MAKE-UP POLICY: There are no make-up Quizzes or make-up Tests (see the QUIZZES and TESTS sections in this syllabus for complete details).

Example student John Doe

Suppose a student in the course, John Doe, has the following grades at the end of the semester:

<table>
<thead>
<tr>
<th>Quizzes</th>
<th>Tests</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>20, 18, 5, 21</td>
<td>45, 0, 63</td>
<td>64</td>
</tr>
</tbody>
</table>

John’s lowest quiz score is his third quiz so it is dropped. His Final Exam percentage is 64 points out of 100 points which equals 64%. John’s lowest test score is his second test so its percentage will be replaced by the percentage of his Final Exam, i.e., 0 points will become 48 points because 64% of 75 points is 48 points. Finally, his point total for the semester is

20 + 18 + 21 + 45 + 48 + 63 + 64 = 279 points

John Doe’s course letter grade is D.
CREDIT CLASSES DO NOT MEET ON:
May 27, 2019, Monday (Memorial Day observed, college closed)
July 4, 2019, Thursday (Independence Day, college closed)

GET THE CARD!
Students need a VID (Valencia Identification) card to use the following services at the Learning Support Center (formerly known as the Academic Success Center) and Library (building 4):
- Check out library materials at the Circulation Counter.
- Check out materials at the library’s Reserve Counter.
- Check out laptop computers and materials from the Audiovisual Counter.
- Take a test for a Valencia course at the Testing Center.
- Check out materials (a TI-84 calculator, for example) from the Learning Support Center.
- Use Learning Support Center computers.
- Use Learning Support Center group study rooms and AV Preview Room.

If you have not gotten your VID card, stop by the East Campus Security Office located on the second floor of building 5, room 220.

STUDENT CHILD CARE SERVICES: The College does NOT provide child care services.
Unsupervised children who are not Valencia students are not allowed on the Valencia College campuses, centers, or instructional sites. Students of the College may not bring children to class (or professor’s office) or leave children unattended on campus. Students are expected to arrange for their personal child care in such a manner as to prevent the involvement of the College. The College assumes no responsibility for supervision of the children of students. Students failing to comply with this policy will not be admitted to classes and may be asked to leave campus until off-campus child care arrangements can be made. The full College Policy can be found at:
http://valenciacollege.edu/generalcounsel/policy/documents/5-04-NF-NN-Student-Faculty-and-Staff-Child-Care-Services.pdf
STUDENT CODE OF CONDUCT: All students are expected to be in compliance with Valencia College’s policy on student code of conduct.

ACADEMIC HONESTY: All students are expected to be in compliance with Valencia College’s policy on academic honesty.

EAST CAMPUS LEARNING ASSISTANCE RESOURCES: Tutoring services are provided on Valencia College’s East campus at the Learning Support Center in Building 4 - Room 101. The East Campus Learning Support Center strives to provide a safe, inclusive learning environment that motivates students to maximize learning opportunities, grow toward independence, and discover the lifelong learner within.
https://valenciacollege.edu/students/learning-support/east

- **Math Support at the Learning Support Center:** The Math Center in Building 4 - Room 102 provides individual assistance to all Valencia students enrolled in any math course. Resources include walk-in tutoring, homework assistance, group tutoring, final exam reviews, PERT information, academic refreshers, and much more. The SPA (Specialized Prep Area) provides specific resources to students in entry level mathematics courses including study sheets for most mathematical concepts. Please check hours of availability at the following link:
  http://valenciacollege.edu/east/academic-success/math/

- **Valencia’s Math Help 24/7:** Valencia Math professors have created pen-casts and videos of common lessons to help you learn the concepts being presented in class. This resource is located at https://valenciacollege.edu/academics/departments/math-east/math-help.php. Click on your course to view your lessons. Some lessons have more than one professor’s perspective; watch more than one!

- **Smart Thinking (Online Tutoring):** Smarthinking is an online tutoring tool available to all of Valencia’s students, and math tutors are available 24/7. Students can access Smarthinking through the Courses tab in Atlas. Students have an eight hour limit of usage per semester, and therefore, Smarthinking is best used as a back up to on-campus services and support, not as a replacement. There are Smarthinking phone applications for both iOS and Android devices.

- **Collegewide Math Support information:** https://valenciacollege.edu/students/learning-support

STUDENTS WITH DISABILITIES: Valencia students who qualify for academic accommodations must provide the professor with a Notification to Instructor (NTI) from the Office for Students with Disabilities (OSD). Students are expected to discuss their specific needs with the professor, preferably during the first two weeks of class. OSD determines accommodations based on appropriate documentation of disabilities. East: Bldg. 5, Rm. 216 Ph: 407-582-2229 Fax: 407-582-8908 TTY: 407-582-1222. Here are the campus locations and contact numbers:
https://valenciacollege.edu/students/office-for-students-with-disabilities

NOTE TO INTERNATIONAL STUDENTS (F-1 OR J-1 VISA): Please be advised that withdrawal from this course due to attendance may result in the termination of your visa status if you fall below the full-time enrollment requirement of 12 credit hours. Contact Valencia’s International Student Services office for more information.
http://valenciacollege.edu/international/
CORE COMPETENCIES OF A VALENCIA GRADUATE:
Valencia’s Student Core Competencies are complex abilities that are essential to lifelong success. This course will help you to develop and demonstrate the abilities to:

1) THINK clearly, critically, and creatively;
2) COMMUNICATE with others verbally and in written form;
3) Make reasoned VALUE judgments and responsible commitments;
4) ACT purposefully, reflectively, and responsibly.

Due to the nature of these global competencies, many of the problems will be presented in the context of an application. These applications will require students to select appropriate information from the problem and communicate effectively in order to explain and/or describe how the student used the skills they are learning to arrive at an appropriate solution for the problem.

STUDENT FEEDBACK ON INSTRUCTION: Near the end of the term, students will receive an invitation through their Valencia ATLAS email account asking them to complete the Student Feedback on Instruction (SFI). This survey provides Valencia College professors with feedback on students’ experiences in courses and helps them to continually improve their courses. The results are released only after grades are submitted and students’ names are not included in the results – all responses will be anonymous.

STUDENT ASSISTANCE PROGRAM: Valencia College has contracted with a private and confidential counseling service (Bay Care Behavioral Health Student Assistance Program (SAP)) to provide FREE short-term assistance to students who need to resolve problems that are affecting their college performance. Examples might include: stress, relationship/family issues, alcohol/drug problems, eating disorders, depression, and gender issues. Students who are experiencing any of these issues and who are enrolled in credit classes at Valencia should call the toll-free number 1-800-878-5470 to speak to a professional counselor. If needed, the counselor may refer the student to appropriate resources or to speak face-to-face with a licensed counselor. For more information, call or visit a Counselor in Student Services on any campus.

FERPA (Family Educational Rights and Privacy Act): FERPA is a Federal law that is administered by the Family Policy Compliance Office (Office) in the U.S. Department of Education (Department). 20 U.S.C. § 1232G; 34 CFR Part 99. FERPA affords students certain rights with respect to their educational records. Valencia College has a firm commitment to protecting the privacy rights of its students. For further information on FERPA, see: http://valenciacollege.edu/ferpa/default.cfm#whatis

TITLE IX: Valencia College strives to be a place free from all forms of discrimination. Title IX protects students from discrimination based upon sex including protections against sexual violence, domestic violence, and stalking. This also includes protections for students who are pregnant or may become pregnant. If you experience sexual violence, domestic violence, or stalking and would like assistance there are several options available to you. Valencia partners with the Victim Service Center of Central Florida which is a confidential resource available 24/7. They can be reached by calling 407-497-6701. If you would like assistance on campus, you can go to www.valenciacollege.edu/eo or contact Valencia College’s Title IX and Equal Opportunity Officer, Ryan Kane, by emailing rkane8@valenciacollege.edu. If you would like to report to law enforcement, you may visit Campus Security or call 911.

Please note that there are no confidential resources on campus. As your professor, I am required to report any information mentioned in this statement to the appropriate campus resources. This will include your name, and detailed information shared with me. We take privacy very seriously at the College and only those who have a legitimate need to know the information will be provided with this information.

If you have more questions about Title IX or the College’s response, please visit www.valenciacollege.edu/eo.

DISCLAIMER: Changes in the syllabus, schedule, evaluation procedures, and/or homework assignments may be made at any time at the discretion of the professor. In case you are absent, it is your responsibility to find out what, if any, announcements or changes have been made.