_____ ATH 205 STATISTICS I studies the basic methods of sampling and interpreting data, probability, the normal distribution, correlation, hypothesis testing and confidence intervals.

*Credit Hours: 3

Instructor: Dennis Evans, Ph.D.
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Office Hours: MWF 8-9, 11-12, 2-3 CT; TTh 2-3 CT

Please feel free to take advantage of my office hours if you have any questions about course material at any time during the semester. Moreover, if you need to meet with me and cannot do so during regular office hours then just talk to me before or after class or contact me by phone or email and we can schedule some other time to work together.

Course Location: Rincker 016

Course Meeting Days and Time: TTh 8:05-9:20 am

Instructor-student interaction and student preparation time: This course is a 3 hour course which meets three times per week (fulfilling the 3 credit hours during classtime). Class is supplemented with on-line resources in Blackboard. In addition, homework will be assessed outside of class using Blackboard quizzes. In general, it is expected that students spend 6 hours per week outside of class studying material and working on statistical problems.

*Course Prerequisites: Three years of high school college preparatory mathematics or MATH 121.

Required Resources: Introductory Statistics by Neil A Weiss, 10th Edition, Pearson, 2016 US Edition
ISBN: 13: 978-0-321-98917-8
(if you purchase the e-book, be sure to only purchase from the bookstore or Pearson directly to make
sure you have a correct copy). Please purchase by the first week of class. There is a copy on reserve in
the library that you may use on campus and until you get your own copy.
We will be covering Chapters 1-9 and Chapter 12.

Required Calculator: Texas Instruments TI-83 or TI-84 graphing calculator

Teaching Strategies

Teaching strategies include lecture and discussion during class time. Students should come prepared for
class having read the book material ahead of time. Students should be prepared to actively participate
and learn during class time.

> EXAMS: As this is a mathematics course, mastery of content is established by exam grades.
> There will be three formative exams AND one final summative exam. You will be allowed to use
> one page (front and back) of self-created notes for each exam

> HOMEWORK: You will need to complete a lot of homework prior to each class in order for you
> to understand and learn the material. There is no possible way to cover all relevant material in
> depth during class time; thus, a large amount of your learning will be in completing problems
> independently. Please see the end of the syllabus for details about homework exercises. I
> expect you to master these problems checking your work with the answers in the back—if you
> need help, please come see me or visit the Math Drop in Desk. Homework will be assessed via
> Blackboard. Late homework will not be graded. It is in your best interest to continually do
> homework as we move through the course rather than doing all sections that are due the night
> before the deadline.

Course Evaluation and Grading
20%   Participation
10%   Exam 1
10%   Exam 2
10%   Exam 3
20%   Final Exam
30%   Homework

Grading Scale
93%- 100%   A
90%- 92%   A-

87%- 89%   B+
83%- 86%   B
80%- 82%   B-
75%- 79%   C+
65%- 74%   C
60%- 64%   C-
50%- 59%   D
Below 50%   F

<u>Course and Instructor Policies</u>Concordia University Wisconsin is a Lutheran higher education communitycommitted to helping students in mind, body, and spirit for service to Christ and the world. As good stewards of your resources of time, talent, and treasures, you will desire to use everything wisely. Plan your time to allow for proper sleep, study, and:

<u>*Concordia University Policie</u>s:

<u>* Disability Policy</u>In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Vocational Rehabilitation Act of 1973, individuals with disabilities are protected from discrimination and assured services and accommodations that provide equal access to activities and programs of the university. Students with a documented disability who require accommodation in order to obtain equal access to this course should inform the instructor, and must also contact Disability Support Service:

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3. Demonstrate the ability to apply mathematical statistics to interpret information
4. Demonstrate the ability to prove and disprove conjectures
5. Communicate mathematical concepts in oral, symbolic, and written forms
6.