CONTACT INFORMATION:
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Email: tmatthews@springfieldcollege.edu
(use Plato whenever possible)
On-line office hours: Frequently

COURSE DESCRIPTION:
This course is designed to provide an overview of descriptive and inferential statistics, both parametric and non-parametric. Students will be expected to demonstrate competency in: 1) knowledge of statistical techniques and measurement procedures in order to develop and administer valid testing and evaluation programs in physical education, and 2) the application of statistical methods to current research problems in physical education. 3 credit hours

COURSE OBJECTIVES:
Upon successful completion of this course, the student will be able to:

- understand the basic statistical and measurement techniques frequently used in physical activity research.
- execute parametric and non-parametric statistical procedures.
- correctly interpret results of statistical analyses.
- demonstrate an understanding of the underlying concepts of statistical techniques.
- apply statistical techniques to measurement in physical education.
- evaluate the results of testing and measuring in physical education.
- recognize the relationship of measurement issues that apply when conducting research.
- use the computer to statistically analyze a set of scores.
- successfully complete all assignments and exams according to directions and course timelines.

STUDENT EXPECTATIONS:
Students are expected to participate in class, by reviewing the Weekly Assignments Folder for each week and completing the assignments by the posted due date. Students will also be expected to apply the information, in answering the posted discussion questions. In addition to the weekly discussions, students will be expected to complete the assignments that
accompany the weekly readings. Students should have access to Microsoft Excel for Statistical Assignments

**COURSE ORGANIZATION:**
This is an asynchronous class, meaning that both students and the instructor will sign into the course pages on their own schedules and work independently of each other. There are certain items to consider to insure that this course is a good choice for you.
1. Have stable Internet access, intermediate-level computer skills, and familiarity with the PLATO course environment. Inability to access the site, navigate the pages, or open files will not excuse you for missed or late assignments.
2. Have basic skills in Microsoft Word and Excel.
3. Check-in to the course several times per unit and post responses to the discussion topics for the week. (I.e. take time to consider others’ responses to develop a learning community; take time to help others understand; consider not only your own learning, but also the learning of others in this course).
4. Start each week's assignments towards the beginning of the unit, so as to work out any problems (technological or otherwise) as early as possible.
5. Contact the instructor if you have difficulties (through the course).
6. Students should have the ability OR develop an ability to engage in on-line virtual spaces (microphone and camera tools; spaces such as Jing, Youtube, Voicethread, etc.).
7. This course is designed to meet a basic level of understanding regarding quantitative analysis in PE and it is also designed so that you learn by engaging, interacting, and creating with peers in this course. High-level discussion, reflection, and peer critiques are expected. Additionally, creating sustainable pieces of work to engage self and future generations is expected.

**SOFTWARE/PROGRAMS:**
*IBM-SPSS*

**COURSE ASSESSMENTS:**
<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>30%</td>
</tr>
<tr>
<td>Discussions</td>
<td>15%</td>
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<tr>
<td>Quantitative Analysis Critiques</td>
<td>15%</td>
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</tbody>
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Incomplete Grades:
A grade of Incomplete (I) is assigned by the instructor only if you have completed 80% of the course work and have offered a valid reason for your inability to complete the course work within the prescribed semester. You must request a grade of Incomplete before the end of the semester and arrangements for the completion of the work must be in writing with the instructor. Once you have been granted an incomplete grade, you must complete the work within the first 30 days of the next scheduled semester. If the work is not completed within that time, or if an extension is not granted, the incomplete grade automatically becomes an 'F'. In certain extraordinary circumstances, faculty may complete an Extension Form and submit it to the Division to permit a student additional time to satisfy the course requirements.