Department of Kinesiology & Health Science
HSC 345-500 PREVENTION & CONTROL OF DISEASES
Fall 2017

**Instructor:** Devin C. Volding, PhD  
**Course Time & Location:** Online  
**Office:** Not on Campus  
**Office Phone:** xxx-xxx-xxx  
**Other Contact:** 936-468-3503 (Dept. Office)  
**Email:** voldingdc@sfasu.edu  
**Credits:** 3 hours

**Prerequisites:** HSC 121 & four hours biology

I. Course Description: Modern concepts of epidemiology, including infectious and non-infectious disease. We will discuss current topics related to epidemiology in public health including but not limited to the history of epidemiology, surveillance, descriptive epidemiology, study designs, and measures of association. Students will learn appropriate use of rates, ratios and proportions. We will discuss current topics in health including but not limited to the obesity epidemic, vaccines and diseases associated with sexual health.

II. Intended Learning Outcomes/Goals/Objectives (Program/Student Learning Outcomes):
This course links with SFA’s Perkins College of Education (PCOE) Goal and Initiative #2: Prepare educators and industry professionals.

**Program Learning Outcomes:**
**Community Health Program**
1. The student will be able to plan and evaluate a community based health lesson.
2. The student will construct a professional portfolio to be used as a personal career-marketing tool for employment opportunities.
3. The student will write a grant and submit the grant’s request for funding proposal (RFP).
4. The student will be able to communicate health information.
5. The student will design and implement a health behavior change plan that they will monitor for the semester.

**EC-12 Health Program**
1. The student will be able to plan and evaluate classroom based health instruction
2. The student will be able to demonstrate health content knowledge.
3. The student will demonstrate skills in instructional planning, curriculum development, instructional methodology, assessment, and classroom management.
4. The student will be able to communicate health education concepts to audiences of varying ages.
5. The student will design and implement a health behavior change plan that they will monitor for the semester.

**Student Learning Outcomes:**
By the end of this course students should be able to:
- Demonstrate and understand the roles, activities and concepts of epidemiology in public health. (PCOE Goal and Initiative #2; EC-12 PLO# 2)
- Demonstrate understanding of the history of disease and chronic conditions. (PCOE Goal and Initiative #2; EC-12 PLO# 2)
- Calculate ratios, proportions and rates of disease. (PCOE Goal and Initiative #2; EC-12 PLO# 2)
- Understand study designs used in epidemiology. (PCOE Goal and Initiative #2; EC-12 PLO# 2)
III. Course Assignments, Activities, Instructional Strategies, use of Technology:

- **Exams** – Exams will cover material from posted lecture materials, journal articles, and supplemental activities assigned (3 @ 100 points each = 300 points). The final exam will not be given early.

- **Text Assignments** – See Course Outline for due dates. (5 @ 10 points each = 50 points). These are due ON or BEFORE the date posted on the syllabus. No late assignments will be accepted. No exceptions.

- **Supplemental** (1 = 50 points) and **Discussion Board Activities** (5 @ 10 points each = 50 points) 100 points combined. These activities will be assigned and announced throughout the semester. No make-ups for these activities.

**Instructional Strategies, use of Technology:**
A variety of instructional methods used during the course and include, but are not limited to the following:
1. Lecture (using PowerPoint; PP) – PP presentations and handouts will be posted on D2L.
2. Online discussions
3. Demonstrations
4. Video presentations

IV. Evaluation and Assessments (Grading):

Exams: 3 @ 100 points each/300 points
Assignments: 5 @ 10 points each/50 points
Discussion Board Activities: 5 @ 10 points each/50 points
Supplemental Activity: 1 @ 50 points
TOTAL = 450 points

Based on percent of total possible points, course performance will be assessed by the following criteria:

- A = 90-100% (405-450 pts.)
- B = 80-89% (360-404 pts.)
- C = 70-79% (315-359 pts.)
- D = 60-69% (270-314 pts.)
- F = <60% (0-269 pts.)

V. Tentative Course Outline/Calendar:
This is a tentative course calendar. This is subject to change. Changes will be announced.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Assignments &amp; Exams</th>
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<tbody>
<tr>
<td>1</td>
<td>8/28-9/1</td>
<td>Syllabus overview and class objectives</td>
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<td>Ch. 1: The History and Scope of Epidemiology – definition, historical</td>
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<td>antecedents and recent applications</td>
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<td>Discuss Assignment #1</td>
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<td>2</td>
<td>9/4-9/8</td>
<td>LABOR DAY MONDAY 4th – Classes in session</td>
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<td>Ch. 1 – The History and Scope of Epidemiology – cont’d</td>
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<tr>
<td>3</td>
<td>9/11-9/15</td>
<td>Ch. 2 – Practical Applications of Epidemiology – applications for the</td>
<td>Assignment #1: Media Article/Critique – an example of epidemiology in the news</td>
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<td>assessment of the health status of a population; disease etiology</td>
<td>downloaded from the internet due Thursday, 9/14</td>
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<td>Week</td>
<td>Dates</td>
<td>Assignment/Notes</td>
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<td>4</td>
<td>9/18-9/22</td>
<td>Ch. 3 – Measures of Morbidity and Mortality Used in Epidemiology - rates, ratios, proportions of disease in the community, incidence, prevalence &amp; crude rates Assignment #2: Ch. 2 (#9); Ch. 3 (#4, 5, 8 &amp; 11) due Wednesday, 9/27</td>
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<td>5</td>
<td>9/25-9/29</td>
<td>Ch. 4 – Descriptive Epidemiology: Person, Place, Time – characteristics of person, place, and time (i.e., who, where, &amp; when) for describing a population Catch-up &amp; review</td>
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<td>6</td>
<td>10/2-10/6</td>
<td>Ch. 6 – Study Designs: Ecologic, Cross-Sectional, Case-Control – observational vs. experimental approaches EXAM #1: THURSDAY 10/5</td>
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<td>7</td>
<td>10/9-10/13</td>
<td>Ch. 7 – Study Designs: Cohort Studies – definition of cohort studies and applications in public health Assignment #3: Ch. 6 (#7-9); Ch. 7 (#5) and Ch. 8 (#8-9) due Thursday, 10/19</td>
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<td>8</td>
<td>10/16-10/20</td>
<td>Ch. 8 – Experimental Study Designs - definition of experimental studies, hierarchy of study designs and applications in public health Assignment #4: Ch. 9 (#1, 3-6, 9-10) due Friday, 10/27</td>
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<td>9</td>
<td>10/23-10/27</td>
<td>Ch. 9 – Measures of Effect – absolute, relative and statistical measure of effect; models of causation—cont’d Exam #2: Chapters 6-9, Thursday, 11/2</td>
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<td>10</td>
<td>10/30-11/3</td>
<td>Ch. 11 – Screening for Disease in the Community – appropriate screening tests, characteristics of a good test, relationship between sensitivity and specificity Ch. 12 – Epidemiology of Infectious Diseases – the epidemiologic triangle (agent, host, environment), measuring disease outbreaks EXAM #2: THURSDAY 11/2 Assignment #5: Ch. 11 (#6-10); Ch. 12 (#2 &amp; 10) due Friday, 11/10</td>
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<td>11</td>
<td>11/6-11/10</td>
<td>Ch. 12 – Epidemiology of Infectious Diseases – cont’d Supplemental Activity: “And the Band Played On” video &amp; critique, due Monday, 12/4</td>
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<td>12</td>
<td>11/13-11/17</td>
<td>Ch. 13 – Epidemiologic Aspects in the Work Environment – health effects of environmental hazards, toxicology concepts, environmental hazards in the workplace Ch. 15 – Social, Behavioral, &amp; Psychosocial Epidemiology – research designs used, the social context of health, independent and dependent variables</td>
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<td>13</td>
<td>11/20-11/24</td>
<td>THANKSGIVING HOLIDAY, 20TH - 24TH Film: And the Band Played On – the rise of the AIDS epidemic</td>
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<td>14</td>
<td>11/27-12/1</td>
<td>Ch. 16 – Epidemiology as a Profession – specializations, career roles, competencies and ethics “And Band Played On” critique, due Monday 12/4</td>
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<td>15</td>
<td>12/4-12/8</td>
<td>Catch-up &amp; Review</td>
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<td>16</td>
<td>12/11-12/15</td>
<td>FINAL EXAM - Exam #3 WEDNESDAY 12/13: Chapters 11-13, 15 &amp; “And the Band Played On” Film Exam #3: Chapters 11-13, 15 and Film Wednesday, 12/13</td>
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IF YOU ARE HAVING DIFFICULTY WITH ASSIGNMENTS OR OTHER COURSE RELATED CONCEPTS PLEASE CONTACT ME. I am delighted to assist to help facilitate your learning.
VI. Readings (Required and recommended—including texts, websites, articles, etc.): 

**Required Text:**

**FEM Statement:**
In this course you must purchase and activate the LiveText add-on, Field Experience Module (FEM), PRIOR to your first day of field experience/clinical teaching. Failure to purchase and activate the account and/or submit the required assignment(s) within the FEM system may result in course failure. FEM must be purchased from www.livetext.com for a fee of $18.00 for a multiple year subscription.

**LiveText Statement:**
This course uses the LiveText data management system to collect critical assessments for students who are Perkins College of Education (PCOE) majors (undergraduate, graduate, and doctoral) or majors in other colleges seeking educator certification through the PCOE. Students who do not have an existing LiveText account will receive an access code via the SFA email system within the first week of class. You will be required to register your LiveText account, and you will be notified how to do this via email. If you forward your SFA e-mail to another account and do not receive an e-mail concerning LiveText registration, please be sure to check your junk mail folder and your spam filter for these e-mails.

If you have questions about obtaining or registering your LiveText account, call ext. 1267 or e-mail SFALiveText@sfasu.edu. Once LiveText is activated, if you have technical questions, call ext. 7050 or e-mail livetext@sfasu.edu. Failure to activate the account and/or submit the required assignment(s) within the LiveText system may result in course failure.

VII. Course Evaluations:
Near the conclusion of each semester, students in the Perkins College of Education (PCOE) electronically evaluate courses taken within the PCOE. Evaluation data is used for a variety of important purposes including: 1. Course and program improvement, planning, and accreditation; 2. Instruction evaluation purposes; and 3. Making decisions on faculty tenure, promotion, pay, and retention. As you evaluate this course, please be thoughtful, thorough, and accurate in completing the evaluation. Please know that the PCOE faculty is committed to excellence in teaching and continued improvement. Therefore, your response is critical!

In the Perkins College of Education (PCOE), the course evaluation process has been simplified and is completed electronically through MySFA. **Although the instructor will be able to view the names of students who complete the survey, ALL ratings and comments are CONFIDENTIAL and ANONYMOUS, and these will NOT be available to the instructor until after final grades are posted. Your feedback is very much appreciated and desired.**

VIII. Student Ethics and Other Policy Information:

**Attendance: Policy 6.7**
Regular, punctual attendance, documented participation, and, if indicated in the syllabus, submission of completed assignments are expected at all classes, laboratories, and other activities for which the student is registered. Based on university policy, failure of students to adhere to these requirements shall influence the course grade, financial assistance, and/or enrollment status. The instructor shall maintain an accurate record of each student’s attendance and participation as well as note this information in required reports and in determining final grades. Students may be excused from attendance for reasons such as health, family emergencies, or student participation in approved university-sponsored events. However, students are responsible for notifying their instructors in advance, when possible, for excusable absences.
**Academic Accommodation for Students with Disabilities: Policy 6.1 and 6.6**

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilitieservices/.

**Student Academic Dishonesty: Policy 4.1**

Abiding by university policy on academic integrity is a responsibility of all university faculty and students.

*Definition of Academic Dishonesty*

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:

- using or attempting to use unauthorized materials on any class assignment or exam;
- falsifying or inventing of any information, including citations, on an assignment; and/or;
- helping or attempting to help another in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one’s own. Examples of plagiarism include, but are not limited to:

- submitting an assignment as one's own work when it is at least partly the work of another person;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source; and/or,
- incorporating the words or ideas of an author into one's paper or presentation without giving the author credit.

*Penalties for Academic Dishonesty*

Penalties may include, but are not limited to reprimand, no credit for the assignment or exam, re-submission of the work, make-up exam, failure of the course, or expulsion from the university.

*Student Appeals*

A student who wishes to appeal decisions related to academic dishonesty should follow procedures outlined in Academic Appeals by Students (6.3).

**Withheld Grades: Policy 5.5**

At the discretion of the instructor of record and with the approval of the academic unit head, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F, except as allowed through policy [i.e., Active Military Service (6.14)]. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Student Code of Conduct: Policy 10.4**

Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the iCare: Early Alert Program at SFA. Information regarding the iCare program is found at [http://www.sfasu.edu/judicial/earlyalert.asp](http://www.sfasu.edu/judicial/earlyalert.asp) or call the office at 936-468-2703.
**IX. Other Relevant Course Information:**

**Class Expectations:**

- Late assignments will not be accepted without penalty unless the student receives advanced approval from the instructor.
- Assignments are due on assigned date(s).
- **Exams** – *No makeup examinations* will be given unless **ARRANGED IN ADVANCE** with the instructor. If an emergency occurs reasonable accommodations will be made.
- If a designated assignment or exam date is missed due to a university sanctioned activity you must take the test or turn in your project **before** you leave campus.

**Email etiquette & rules** – It is important to use polite and appropriate language when emailing your professor.

- Think of me and your other professors as business associates. This means you will **NOT** use the informal/casual language that you would with a friend.
- Please include a brief description of the subject of your email in the subject line.
- Be clear and concise.
- **Use registered school email** (*xxxxx@jacks.sfasu.edu*) or D2L email for all electronic communications.

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<thead>
<tr>
<th>Assignments/Assessments</th>
<th>AAHE/CAEP</th>
<th>TEA Standards</th>
<th>ISTE</th>
<th>InTASC</th>
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<tr>
<td>Group/Discussion/Supplemental Projects</td>
<td></td>
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<td>3b, 4c</td>
<td>9g, 9h</td>
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<tr>
<td>Exam 1</td>
<td>1E, 2A, 2B</td>
<td>1.1K, 1.3K, 1.3S, 1.12K, 1.12S, 1.13S, 1.17S</td>
<td>3a</td>
<td>2F, 2K, 4K, 5b, 5G, 5j</td>
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<tr>
<td>Exam 2</td>
<td>4A, 4B</td>
<td>1.12S, 1.13S, 1.17S, 1.24K, 1.25K, 1.29K</td>
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<td>5L, 6a, 6j, 8e, 8g</td>
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<td>Exam 3</td>
<td>VIIB</td>
<td>1.41S, 1.45S</td>
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