### Course Information

**Semester/Year:** Spring 2016  
**Course Title:** Advanced Statistical Methods in Human Services  
**Course Prefix/Number/Section:** SOCW 6341-001  
**Instructor Name:** Michael Killian, Ph.D., MSW  
**Faculty Position:** Assistant Professor  
**Faculty Profile:** [https://www.uta.edu/profiles/michael-killian](https://www.uta.edu/profiles/michael-killian)  
**Office Number:** SWCA - Office 201B  
**Phone Number:** 817-272-3181  
**Email Address:** killianm@uta.edu  
**Office Hours:** Tuesday, 12:00-2:00pm  
**Day and Time of Class (if applicable):** Tuesday  
**Location:** 2:00-4:50pm

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A. Catalog Course Description/Special Requirements (Prerequisites/Out of Class Meetings)

Advanced statistical applications in the human services. Emphasis on multivariate statistical approaches including multiple regression analysis, logistic regression, and advanced general linear modeling approaches to analyzing data from social work research. Prerequisite: SOCW 6347.

### B. Measurable Student Learning Outcomes

1. To increase the student’s understanding of the role of research and advanced statistics in social work practice, theory construction, and policy formation
2. To increase the student’s ability to interpret, utilize and analyze advanced statistical outcomes presented in empirical studies in social science
3. To increase the ability of students to match appropriate advanced statistical procedures to type of data, and research questions
4. To increase the student’s ability to perform advanced statistical analyses using SPSS software
5. To increase the ability of students to interpret research outcomes based on their statistical results

### C. Required Text(s) and Other Course Materials


### D. Additional Recommended Text(s) and Other Course Materials

E. Major Course Assignments & Examinations

The major assignments in the course consist of four homework projects, a final exam, and one final submission of an abstract to a major social work research conference.

F. Grading Policy

The grade in this course will be determined through homework assignments, a final examination, and a final project submission:

- Homework assignments: 60%
- Final exam: 30%
- Final project submission: 10%

Grading Scale:

- 90% – 100% = A
- 80% – 89% = B
- 70% – 79% = C
- 60% – 69% = D
- < 60% = F

Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see “Student Support Services,” below.

G. Make-Up Exam or Assignment Policy

Students who do not take an exam will not earn any points. **Make up exams will not be given** unless the absent is authorized by the instructor (please check the “Attendance Policy” for detailed information). Generally, the professor will not grant an “incomplete” grade. The professor assigns “incomplete” grades only in rare circumstances. Failure to turn in any assignment by the due date will result in an automatic deduction of **10% of the total possible points/calendar day**. No assignments will be accepted **three days after the due date**.

H. Attendance Policy

At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I allow students to attend class at their own discretion and have elected to take attendance but will not factor attendance into the grade. However, attendance is strongly encouraged.
## I. Course Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date of Class</th>
<th>Topic</th>
<th>Readings</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>January 19</td>
<td>Intro to OLS Regression and GLM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>January 26</td>
<td>OLS Regression and GLM</td>
<td>Ch. 2 and 3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>February 2</td>
<td>Multiple Regression</td>
<td>Ch. 4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>February 9</td>
<td>Multiple Regression</td>
<td>Ch. 4</td>
<td>Homework 1 due (2/14)</td>
</tr>
<tr>
<td>5</td>
<td>February 16</td>
<td>Logistic Regression – Odds Ratios</td>
<td>Ch. 5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>February 23</td>
<td>Logistic Regression</td>
<td>Ch. 5</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>March 1</td>
<td>Logistic Regression (special cases)</td>
<td>Ch. 5</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>March 8</td>
<td>Logistic Regression (special cases)</td>
<td>Ch. 5</td>
<td>Homework 2 due (3/13)</td>
</tr>
<tr>
<td>9</td>
<td>March 15</td>
<td>ANOVA and GLM</td>
<td>Ch. 1 and 2</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>March 22</td>
<td>SPRING BREAK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>March 29</td>
<td>Two-Way ANOVA and interactions</td>
<td>Ch. 6</td>
<td>Homework 3 due (4/3)</td>
</tr>
<tr>
<td>12</td>
<td>April 5</td>
<td>ANCOVA</td>
<td>Ch. 7</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>April 12</td>
<td>Repeated measures ANOVA</td>
<td>Ch. 8</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>April 19</td>
<td>MANOVA and MANCOVA</td>
<td>Ch. 9</td>
<td>Homework 4 due (4/24)</td>
</tr>
<tr>
<td>15</td>
<td>April 26</td>
<td>HLM</td>
<td>Handout, online</td>
<td>Abstracts due April 30</td>
</tr>
<tr>
<td>16</td>
<td>May 3</td>
<td>Exploratory Factor Analyses and GLM</td>
<td>Handout, online</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Finals Week – May 10</td>
<td>Finals week, Tuesday, 2:00-4:30pm</td>
<td></td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

As the instructors for this course, we reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course.

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### J. Expectations for Out-of-Class Study

Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional three hours (for each hour of class or lecture per week) of their own time in course-related activities, including reading required materials, completing assignments, preparing for assignments and exams, and reviewing online content, etc.

### K. Grade Grievance Policy


### L. Student Support Services
UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals and writing support, students may visit the Office of Advising and Student Success located on the third floor of Building A of the School of Social Work Complex or contact the Administrative Assistant at 817-272-3647. Also, the Maverick Resource Hotline may be contacted at 817-272-6107, or send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

The UT Arlington School of Social Work community is committed to and cares about all of our students. If you or someone you know feels overwhelmed, hopeless, depressed, and/or is thinking about dying by suicide or harming self or someone else, supportive services are available. For immediate, 24-hour help call 1-800-2-3-TALK or visit http://www.suicidepreventionlifeline.org/ for a live chat. For campus resources, contact Counseling and Psychological Services (817-272-3671 or visit http://www.uta.edu/caps/index.php) or UT Arlington Psychiatric Services (817-272-2771 or visit https://www.uta.edu/caps/services/psychiatric.php) for more information or to schedule an appointment. You can be seen by a counselor on a walk-in basis every day, Monday through Friday, from 8:00 AM to 5:00 PM in Ransom Hall, Suite 303. Getting help is a smart and courageous thing to do - for yourself and for those who care about you.

M. Librarian to Contact

The Social Sciences/Social Work Resource Librarian is John Dillard. His office is in the campus Central Library. He may also be contacted via E-mail: dillard@uta.edu or by Cell phone: (817) 675-8962, below are some commonly used resources needed by students in online or technology supported courses:

http://www.uta.edu/library/services/distance.php

The following is a list, with links, of commonly used library resources:
Library Home Page...................... http://www.uta.edu/library
Subject Guides......................... http://libguides.uta.edu
Subject Librarians....................... http://www.uta.edu/library/help/subject-librarians.php
Course Reserves........................ http://pulse.uta.edu/vwebv/enterCourseReserve.do
Connecting from Off-Campus........... http://libguides.uta.edu/offcampus
Ask a Librarian.......................... http://ask.uta.edu

N. Emergency Exit Procedures

Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exits, which are the stairwells located at either end of the adjacent hallway. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

O. Drop Policy

Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student’s responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aoa/faq/).
P. Disability Accommodations

UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Q. Title IX

The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos. For information regarding Title IX, visit www.uta.edu/titleIX.

R. Academic Integrity

Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System Regents' Rule 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

S. Electronic Communication

UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

T. Student Feedback Survey
UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

U. Final Review Week

This ONLY applies to courses administering a major or final examination scheduled in the week and locations designated for final examinations following last classes. A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.