

TESTS AND MEASUREMENTS
INTRODUCTION TO PSYCHOMETRICS (14190)
PSY 3500
Winter 2018
TR 10:00 – 11:47am

Instructor: Dr. Matthew McLarnon
 E-mail: mclarnon@oakland.edu
 Office Hours: Thursdays 12:30pm – 1:30pm

Classroom: Pawley 308
 Office: 202 Pryale Hall

Course Description	<p>The course offers a critical examination of test construction methods and interpretation of various tests, including intelligence, achievement, interests, and personality. With special attention on issues around reliability and validity, students will gain knowledge about psychological tests and testing in applied settings.</p> <p>Course Prerequisite: PSY 250 with a grade of 2.0 or higher</p> <p>Required Text(s): Cohen, R. J., & Swerdlik, M. E. (2018). <i>Psychological Testing and Assessment</i> (9th edition). New York, NY: McGraw-Hill. ISBN: 1259870502</p>
Outcomes and Learning Objective	<p>Psychometrics, is the science of measuring psychological attributes, and can provide the foundation for many areas of research in psychology. The major objectives of this course are to a) introduce psychometric concepts and emphasize their importance in testing and evaluation in a wide cross-section of psychological research areas, b) familiarize students with several different types of tests and measurement formats (i.e., intelligence, achievement, interests, and personality), and c) understand how to accurately assess and interpret the psychometric properties of particular tests.</p> <p>Upon successful completion of this course, students should be able to:</p> <ul style="list-style-type: none"> • Understand the use of psychological tests and measures • Know the major considerations for test item and response option design • Understand the importance of sampling and generalizability • Assess items on a test for various characteristics. • Know the types and how to conduct appropriate reliability analyses • Know the types and how to conduct appropriate validity analyses • Evaluate the validity of a test. • Articulate the major professional, ethical, legal, and societal issues and concerns over psychological testing <p>These objectives will be accomplished through lectures, textbook and supplemental readings, discussions, case studies, and additional class exercises that will supplement the lecture and textbook material. In general, each class will be devoted to a discussion of the substantive material assigned for that topic, and will be supported by in- and out-of-class exercises.</p>

Special Considerations: A student with a documented learning or physical disability must contact the **Office of Disability Support Services**, 103A North Foundation Hall, (248) 370-3266, and inform the professor of special needs during first week of classes. For more information, visit <http://www.oakland.edu/dss>.

Policy on Academic Misconduct: The University’s regulations that relate to academic misconduct will be fully enforced. Any student suspected of cheating and/or plagiarism will be reported to the Dean of Students and, thereafter, to the Academic Conduct Committee for adjudication. Anyone found guilty of academic misconduct in this course may receive a course grade of 0.0, in addition to any penalty assigned by the Academic Conduct Committee. Students found guilty of academic misconduct by the Academic Conduct Committee may face suspension or permanent dismissal. The full policy on academic misconduct can be found in the General Information section of the Undergraduate Catalog.

Departmental Policy for Resolution of Student Academic-Related Concerns: The student has an obligation to attempt to resolve all academic-related concerns with the instructor. If a suitable solution cannot be reached, then the student should consult the Department of Psychology Procedure for the Resolution of Student Academic-Related Concerns at <https://www.oakland.edu/Assets/Oakland/psychology/files-and-documents/Undergrad-Advising/Resolution%20of%20Student%20Concerns-04-2017-approved%20full%20doc.pdf>.

Excused Absence Policy: University excused absences applies to participation as an athlete, manager or student trainer in NCAA intercollegiate competitions, or participation as a representative of Oakland University at academic events and artistic performances approved by the Provost or designee. For the OU excused absence policy, see <http://www.oakland.edu/provost/policies-and-procedures/>.

Faculty Feedback: As a student in this class, you may receive “Faculty Feedback” in your OU e-mail if your professor identifies areas of concern that may impede your success in the class. Faculty Feedback typically occurs during weeks 2-5 of the Fall and Winter terms, but may also be given later in the semester and more than once a semester. A “Faculty Feedback” e-mail will specify the area(s) of concern and recommend action(s) you should take. Please remember to check your OU email account regularly as that is where it will appear.

Audio Recording Policy: Students who wish to audio-record lectures may request permission to do so. These recordings may only be used for the purpose of personal study. Students may not share these recordings with other individuals without the consent of the professor. At the conclusion of the semester, students may request permission to keep these recordings if needed, otherwise it is expected that all audio-recordings will be deleted from all electronic recording and storage devices.

Veteran Support Services: The office of Veteran Support Services (VSS) is responsible for giving support services to more than 300 veterans, service members, and dependents of veterans. VSS is staffed with personnel who are veterans and current or former students. Any student veteran or dependent of a veteran requiring assistance with navigating the Veterans Administration, understanding service-related benefits, or requires referrals to campus and community resources should contact one of the Veterans Liaisons by visiting 116 North Foundation Hall, phoning 248-370-2010, or visiting <http://www.oakland.edu/veterans/>.

Add/Drops & Incompletes: The University add/drop and incomplete grade policies will be explicitly followed. It is the student’s responsibility to be aware of the University deadline dates for dropping the course.

Course Evaluation: Your final grade in this course will be based on three exams, three written assignments, and participation. The percentage points for the exams and exercises are as follows:

Participation/End-of-class reflections	10%
Written Assignments (3 at 12.5% each)	37.5%
Exams (3 at 17.5% each)	52.5%
Total:	100%

Exams: Students must complete three exams. Exams will be 1.5 hours in length and will consist of multiple-choice and short answer questions. These questions are designed to assess students' knowledge of relevant psychometrics content as well as their problem-solving ability in the assessment of real-world issues. Exams will not be cumulative. **Exam 1 will be on TBA, Exam 2 will be on TBA, and Exam 3 will on TBA, during the Final Exam period.** See the class schedule and the list of topics and readings covered on each exam.

Make-up Examinations: Make-up exams will only be given if arrangements are made prior to the exam or at the instructor's discretion. If I am not notified prior to a missed exam, I will require the proper documentation before granting a make-up exam.

Assignments: Students will be asked to complete written assignments that will assess their understanding of the material covered in class and by the textbook. Assignments will generally have two components: 1) Students will be asked to define, describe, and integrate various concepts that have been covered, 2) Test development exercises in which students will be tasked with developing questions for new tests or critiquing already published tests. Grades will be based on an overall understanding of the problem and appropriate use of relevant concepts. A grading outline will be posted to Moodle. Assignments, submitted through Moodle, will be due at 11:59pm on the day indicated on the following schedule.

Participation/End-of-class reflections: Students will be responsible for submitting a statement, letter, or question at the end of each class (handed in in-person). These reflections should describe one or two of the most useful, informative, or interesting things discussed during class. Reflections can also describe aspects of the day's lecture that need greater clarification.

Late Assignments: All assignments and the term paper must be turned into Moodle by the time indicated on the following schedule. Grades on assignments and the term paper will be reduced by five percentage points for each day they are late. Assignments and the term paper will not be accepted more than one week past the due date.

Reflection activities must be submitted at the end of class. The last few minutes of class time will be dedicated towards giving students time to prepare a reflection submission. Submission of a reflection activity after class will not be permitted.

Grade Breakdown	Percentage grade	GPA	Percentage grade	GPA	Percentage grade	GPA
	95-100	4.0	79	2.9	63	1.3
	94	3.9	78	2.8	62	1.2
	93	3.8	77	2.7	61	1.1
	92	3.7	76	2.6	60	1.0
	91	3.7	75	2.5	59 and below	0.0
	90	3.6	74	2.4		
	89	3.5	73	2.3		
	88	3.5	72	2.2		
	87	3.4	71	2.1		
86	3.4	70	2.0			
85	3.3	69	1.9			
84	3.3	68	1.8			
83	3.2	67	1.7			
82	3.2	66	1.6			
81	3.1	65	1.5			
80	3.0	64	1.4			

Tentative Class Schedule and Outline

<i>Week</i>	<i>Day</i>	<i>Topic</i>	
1	Jan. 4	Syllabus Review	
2	Jan. 9	Introduction to Testing	Ch. 1
2	Jan. 11	History and Ethical Considerations	Ch. 2
3	Jan. 16	Stats Refresher	Ch. 3
3	Jan. 18	Of Tests and Testing	Ch. 4
4	Jan. 23	Reliability	Ch. 5
4	Jan. 25	Reliability	Ch. 5
Assignment 1 DUE – Jan. 26, 11:59pm			
5	Jan. 30	Validity	Ch. 6
5	Feb. 1	Validity	Ch. 6
6	Feb. 6	EXAM #1 – Chapters 1-6	
6	Feb. 8	Utility	Ch. 7
7	Feb. 13	Test Development	Ch. 8
7	Feb. 15	Test Development	Ch. 8
Assignment 2 DUE – Feb. 16, 11:59pm			
<i>FEB. 20, 22 – NO CLASS – WINTER RECESS</i>			
8	Feb. 27	Intelligence testing	Ch. 9
8	Mar. 1	Intelligence testing	Ch. 9
9	Mar. 6	Educational testing	Ch. 10
9	Mar. 8	Educational testing	Ch. 10
10	Mar. 13	EXAM #2 – Chapters 7-10	
10	Mar. 15	Personality testing	Ch. 11
11	Mar. 20	Personality testing	Ch. 11, 12
11	Mar. 22	Personality testing	Ch. 12
Assignment 3 DUE – Mar. 23, 11:59pm			
12	Mar. 27	Clinical/counseling testing	Ch. 13
12	Mar. 29	Clinical/counseling testing	Ch. 13
13	Apr. 3	Neuropsychological testing	Ch. 14
13	Apr. 5	Neuropsychological testing	Ch. 14
14	Apr. 10	Career testing	Ch. 15
14	Apr. 12	Career testing	Ch. 15
15	Apr. 17	Careers in I/O Psychology; Class wrap-up	

EXAM #3 – Chapters 11-15

Scheduled during Final Exam Period: Thursday, April 19, 8:00-9:30am

Student Support Services

- Important dates - <https://www.oakland.edu/registrar/important-dates/>
- Writing Center - <http://www.oakland.edu/ouwc/>
- Tutoring Center - <https://www.oakland.edu/tutoring/>
- Disability Support Services - <https://www.oakland.edu/dss/>
- Dean of Students - <https://www.oakland.edu/deanofstudents/>
- Student/Academic Advising - <https://www.oakland.edu/advising/>
- Graham Health and Counseling Center - <https://www.oakland.edu/ghc/>
- Campus Police - <https://oupolice.com/>