



# THE UNIVERSITY OF IOWA

## Educational Measurement and Statistics

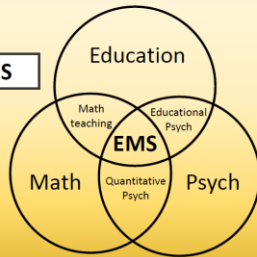
Contact our program coordinator: [jonathan-themplin@uiowa.edu](mailto:jonathan-themplin@uiowa.edu)

Learn more at: <https://education.uiowa.edu/academic-programs/educational-measurement-and-statistics>

### What is Educational Measurement?

- Application of quantitative methods to educational issues

**Education + Math + Psychology = EMS**



### What can I do with an EMS degree?

- **You can work at a...**
  - College or university
  - State or federal agency
  - Large public/private school system
  - Test publishing firm
  - Research and evaluation center
  - Publisher
  - Licensure organization
  - Hospital
  - Software company
- **You can be a...**
  - Research scientist
  - Professor
  - Test Developer
  - Psychometrician
  - Statistician
  - Data Analyst
  - Consultant
  - Program Evaluator


*"The best thing about being a statistician is that you get to play in everyone's backyard"*



John Wilder Tukey

### How much will I make?

- According to the National Center for Education Statistics (NCES)
  - Median salary for a BA ~\$50,000 (ages 25-34)
- According to the APA...
  - Starting salaries (private sector) range from \$85,000-\$111,000.
  - Senior level (government sector) average \$120,000.

Our program has a 100% job placement rate 

## Why study at University of Iowa?

- We are one of the top programs in the world! 🌍
- Rich history
  - ACT
  - Optical mark recognition system (AKA Scantron Test)
  - Iowa Testing Programs
    - Ongoing development of nationally standardized K – 12 achievement tests
    - Over 75 years serving assessment and research needs of Iowa schools
    - Many opportunities for hands on experience
  - Proximity to ACT, Pearson, & College Board
    - Research collaboration
    - Networking and internship opportunities
- Textbooks written/edited by our professors

## What types of programs do you offer?

- Our department offers the following programs:
  - M.A.
    - ~2 years to complete
  - Ph.D.
    - ~3-4 years to complete (if you already have an M.A.)

## What classes can I take?

### Courses within the Program

- Applied Statistical Analysis
- Quantitative Research Methods
- Test Construction and Evaluation
- Computational Statistical Analysis
- Multilevel and Multivariate Modeling
- Program and Project Evaluation
- Educational Psychology
- Mathematical Statistics
- Advanced Test Theory
- Causal Inference
- Meta-Analysis

### Courses Outside the Program

- Big Data
- Informatics
- Mathematics
- Data Analytics
- Computer Science
- Cognitive Theories of Learning
- Educational Policy and Leadership
- Industrial & Organizational Psychology

## But graduate school is expensive . . .

- 75% of our students receive funding

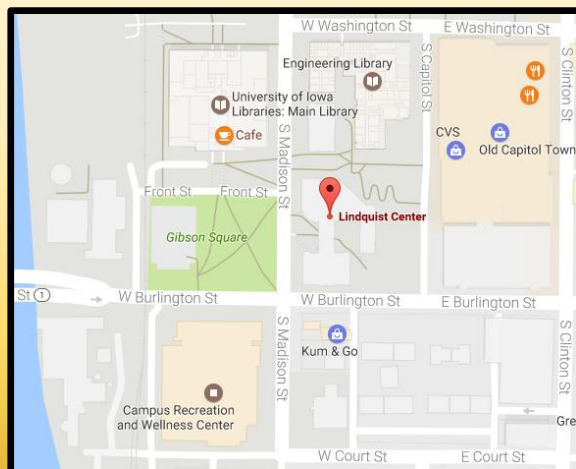
- Iowa Testing Programs
- Teaching Assistantships
- Research Assistantships
- Fellowships
  - ACT
  - ETS
  - Ford Foundation

- Summer Internships



## A little bit about Iowa City

- Iowa city has  $\approx$  75,000 residents
  - 32,535 students at UI
  - $\approx$  9,000 graduate, professional, and post-grad students
- Lindquist Center
  - Most central building on campus!
  - Next to the main library, rec center, and a parking garage
  - $\approx$  2 blocks from the Pedestrian Mall
  - 40+ restaurants and 40+ shops
- Home of the Hawkeyes!





## Educational Measurement and Statistics

The **Educational Measurement and Statistics** program prepares students for successful careers in educational measurement, evaluation, research, and statistical/quantitative analysis.

Students select a focus in either educational measurement or applied statistics, and learn to understand theories, methods, professional ethics, and applications associated with quantitative research methodology in the social science context. Upon completion of the program, graduates are qualified to teach at the university level, analyze and interpret quantitative data, independently conduct research and communicate findings to various audiences, design assessments, and apply complex quantitative information in making policy decisions.



Learn more at:

[EDUCATION.UIOWA.EDU/edmeasurement](https://EDUCATION.UIOWA.EDU/edmeasurement)

# Educational Measurement and Statistics

Students work one-on-one with established leaders and innovators in the field of educational measurement and applied statistics. Students have access to world-renown resources including:

- **Iowa Measurement Research Foundation (IMRF)** advances and extends knowledge and practice in the field of educational measurement by providing financial assistance,
- **Center for Advanced Studies in Measurement and Assessment (CASMA)** pursues research-based initiatives that lead to advancements in the methodology and practice of educational measurement and assessment,
- **Iowa Testing Programs (ITP)** has served Iowa schools' assessment needs for over 75 years, conducting research that improves the practice of educational measurement and developing high-quality assessments.

**Numerous assistantships are available.**

**Our graduates work in a variety of industries and institutions around the globe, including education, healthcare, banking, research and evaluation, testing, and state and federal agencies.**

**Join our network of leader, scholars, and innovators.**

**100%**  
**Job**  
**Placement**



Learn more at:

**EDUCATION.UIOWA.EDU/edmeasurement**



**College of  
Education**