

# **PROFESSIONAL MASTER'S OF SCIENCE**

## **Allows You to Customize Your Master's Degree**

### **To**

## **Maximize your Marketability**

In the 21<sup>st</sup> Century Economy there is enormous demand for professionals who have a foundation in science. This master's degree allows you to pair your science knowledge with a professional skill.

The Professional Masters of Science (PSM) was approved in the fall of 2016 and will be offered for the first time in the spring of 2017. It is composed of two graduate certificates. The purpose of the degree was to enhance the marketability of students at the master's level by blending disciplines.

The first certificate consisting of 15-18 hours has to be offered by the College of Science. The second graduate certificate consisting of 15-18 hours can be taken in the College of Science, any other college at UTEP, or outside UTEP in-class or online.

- **First Certificate from College of Science:**

**Bioinformatics**

**Biology**

**Chemistry**

**Geospatial Information Science and Technology (GIST)**

**Applied and Computational Mathematics**

**Applied Statistics**

**Physics**

- **Second Certificate:**

**Certificate from College of Science**

**Certificate from another college at UTEP**

**Certificate from NMSU**

**Online Certificates from any Accredited University**

Here are just a few of the offerings:

## **UTEP Graduate Certificates**

### **College of Business Administration:**

Accountancy

Entrepreneurship

### **College of Education:**

Central Office Leadership

Higher Education Endorsement

School Site Leadership

### **College of Engineering:**

Construction Management

Cyber Security

Electric Power and Energy Systems

Innovation and Entrepreneurship

International Manufacturing Engineering

Systems Engineering

### **College of Health Sciences:**

Public Health

Bilingual Speech Language Pathology

Concussion Management Speech Language Pathology

### **College of Liberal Arts:**

Homeland Security

Intelligence and National Security Studies

Leadership Studies

Open Source Intelligence  
Teaching English to Speakers of Other Languages  
Urban and Regional Planning  
Graduate Certificate in Woman's Studies  
Bilingual Professional Writing  
Technical and Professional Writing  
Teaching History  
Graduate Certificate in Teaching ESOL  
Quantitative Methods in Psychology  
Women's and Gender Studies

**College of Science:**

Biological Sciences (Coming Soon)  
Chemistry  
Geospatial Information Science and Technology (GIST)  
Applied Statistics  
Applied and Computational Mathematics  
Physics  
Bioinformatics  
Big Data Analytics (planning stage)

**School of Nursing:**

Nursing Education  
Nursing Systems Management  
Nurse Practitioner

Comprehensive List of Online Graduate Certificates in Forensic Science;  
<http://www.guidetoonlineschools.com/degrees/forensic-science?lvl=32#list>

### **Online Graduate Certificates Outside UTEP**

#### **American Public University**

Online Graduate Certificate in Environmental Hazard Mitigation and Restoration

Online Graduate Certificate in Environmental Risk Assessment

Online Graduate Certificate in Environmental Sustainability

Online graduate Certificate in Environmental Global Management

<http://www.apu.apus.edu/lp2/environmental-science>

#### **ASU**

Online Graduate Certificate in Advanced Analytics in Higher Education

Online Graduate Certificate in Biomimicry

Online Graduate Certificate in Biospecimen Repository Administration

Online Health Care Innovation

Online Science of Health Care Delivery

Online Graduate Certificate in Biomimicry

Online Graduate Certificate in Biospecimen Repository Administration

Online Graduate Certificate in Social Entrepreneurship and Community Development

Graduate Certificate in Intellectual Property

Graduate Certificate in Health Law

Graduate Certificate in Environmental and Sustainability Law

Graduate Certificate in Genomics and Biotechnology

<https://sbmi.uth.edu/prospective-students/academics/certificate.htm>

### **Auburn University**

Online Graduate Certificate in Educational Leadership

<http://www.education.auburn.edu/graduate-degree-cert/educational-leadership-graduate-certificate/>

### **Boston University**

Online Graduate Certificate in Big Data Analytics – 16 hours

<http://www.bu.edu/online/programs/certificate-programs/data-analytics/>

### **Boston University**

Online Graduate Certificate in Health Informatics

<https://www.bu.edu/online/programs/certificate-programs/health-informatics/>

### **Colorado State University**

Online Graduate Certificate in Healthcare Administration

<https://csuglobal.edu/graduate/programs/certificates-completion/healthcare-administration>

### **Columbia University**

Online Graduate Certificate in Actuarial Science

<http://sps.columbia.edu/certificates/actuarial-science-certificate/courses>

## **Coursera Through the University of San Diego**

Online Graduate Certificate in Big Data Analytics – 6 courses

[https://www.coursera.org/specializations/big-data?utm\\_source=gg&utm\\_medium=sem&campaignid=313639387&adgroupid=20631983107&device=c&keyword=%2Bcertifications%20%2Bin%20%2Bbig%20%2Bdata&matchtype=b&network=g&devicemodel=&adpostion=1t3&creativeid=141006932088&hide\\_mobile\\_promo&gclid=CJntyPSP\\_s8CFQuLaQoduAgNWg](https://www.coursera.org/specializations/big-data?utm_source=gg&utm_medium=sem&campaignid=313639387&adgroupid=20631983107&device=c&keyword=%2Bcertifications%20%2Bin%20%2Bbig%20%2Bdata&matchtype=b&network=g&devicemodel=&adpostion=1t3&creativeid=141006932088&hide_mobile_promo&gclid=CJntyPSP_s8CFQuLaQoduAgNWg)

## **Florida International University**

Graduate Certificate in Environmental Studies

<https://earthenvironment.fiu.edu/programs/graduate/graduate-certificate-in-environmental-studies/>

## **George Mason University**

Graduate Certificate in Actuarial Science

<http://math.gmu.edu/graduate/cert-in-actuarial.php>

## **Georgia Southern University**

Online Graduate Certificate in Applied Economics

<http://cogs.georgiasouthern.edu/admission/certificate-programs/graduate-certificate-in-applied-economics/>

## **Johns Hopkins University**

Online Graduate Certificate in the Business of Health Care

<http://carey.jhu.edu/academics/certificate-programs/business-of-health-care>

## **Kansas State University**

Graduate Certificate in Data Analytics

<http://global.k-state.edu/business/analytics/>

### **Lesly University**

Online Graduate Certificate in Science in Education

<http://online.lesley.edu/online-programs/graduate-certificate-in-science-in-education/>

### **MIT**

Online Graduate Certificate in Big Data and Social Analytics

[http://getsmarter.mit.edu/big-data-and-social-analytics-course/?utm\\_source=PPC&utm\\_medium=adwords\\_ppc&utm\\_campaign=MIT\\_BDSA\\_aw\\_usa&gclid=CPSw2L6R\\_s8CFQEyaQod8sEFJQ](http://getsmarter.mit.edu/big-data-and-social-analytics-course/?utm_source=PPC&utm_medium=adwords_ppc&utm_campaign=MIT_BDSA_aw_usa&gclid=CPSw2L6R_s8CFQEyaQod8sEFJQ)

### **New Mexico State University**

Online Graduate Certificate in Public Health

Online Graduate Certificate in Online Teaching and Learning

Cultural Resource Management

Museum Studies

Public Utility Regulation and Economics (PURE)

Finance

Public Health

### **New Mexico Tech**

Online graduate certificate in Hydrology

<https://act.nmt.edu/distance/hydrology/>

### **Penn State**

Online Graduate certificate in Earth Science Education

<http://www.worldcampus.psu.edu/degrees-and-certificates/earth-science-education-certificate/overview>

## **Penn State**

Online Graduate Certificate in community and Economic Development

<http://www.worldcampus.psu.edu/degrees-and-certificates/community-and-economic-development-certificate/overview>

## **Regis University**

Graduate certification in Applied Environmental Biology

<http://www.regis.edu/RC/Academics/Degrees-and-Programs/Certificates-and-Licensures/Certificate-in-Environmental-Biology.aspx>

## **Rice – Graduate Certificates**

Graduate Certificate: Leadership

Graduate Certificate: Finance and Accounting

Graduate Certificate: Health Care Management

Graduate Certificate: Negotiations

Graduate Certificate: Strategic Management

Graduate Certificate in Customer-Focused Strategy

Rice University Education Entrepreneurship Program (REEP)

## **Rutgers**

Online Graduate Certificate in Big Data

<https://campustechnology.com/articles/2016/02/18/rutgers-launches-online-big-data-certificate-program.aspx>

### **Stanford University**

Online Graduate Certification Data Mining and Applications

<http://www.gradschools.com/graduate-schools-in-united-states/online/stanford-university/data-mining-and-applications-258815>

### **Stanford University**

Online Graduate Certificate Writing in the Sciences online graduate certificate

<http://online.stanford.edu/course/writing-in-the-sciences>

### **Stanford University**

Online Graduate Certificate in Biotechnology

<http://scpd.stanford.edu/public/category/courseCategoryCertificateProfile.do?method=load&certificateId=27309038>

### **Stanford University**

Online Graduate Certificate in Data Mining and Applications

<http://scpd.stanford.edu/public/category/courseCategoryCertificateProfile.do?method=load&certificateId=1209602>

### **Stanford University**

Online Graduate Certificate in Data, Models and Optimization

<http://scpd.stanford.edu/public/category/courseCategoryCertificateProfile.do?method=load&certificateId=58063419>

### **Stanford University**

Online Graduate Certificate Innovation and Entrepreneurship

<http://scpd.stanford.edu/public/category/courseCategoryCertificateProfile.do?method=load&certificateId=14800052>

## **Stanford University**

Online Graduate Certificate in Biomedical Engineering: Imaging, Devices and System

Online Graduate Certificate in Communications Systems

Online Graduate Nanotechnology; Design and Manufacturing of Intelligent Systems

## **Montana State University:**

Online graduate certificates in science teaching

## **Seton Hall University**

Online Graduate Certificate in Healthcare Administration

<https://www.shu.edu/academics/healthcare-administration-certificate.cfm>

## **Texas A & M**

Online Graduate Certificate in Petroleum Geoscience

<https://engineering.tamu.edu/petroleum/academics/distance-learning>

## **Texas A & M – Graduate certificate in Environmental Science**

<http://www.tamuc.edu/academics/colleges/scienceengineeringagriculture/departments/biologicalEnvironmentalSciences/graduate/certificateEnvScience.aspx>

## **Texas Tech University**

Wind Energy (Managerial) Graduate Certificate  
Wind Energy (Technical) Graduate Certificate  
Women's Studies Graduate Certificate  
Agricultural Communication Leadership Graduate Certificate  
Agricultural Leadership Graduate Certificate  
Crop Protection Graduate Certificate  
Fibers and Biopolymers Graduate Certificate  
Global Food Security Graduate Certificate  
Horticulture Landscape Management Graduate Certificate  
Soil Management Graduate Certificate  
Digital Design and Fabrication Graduate Certificate  
Health Care Facilities Design Graduate Certificate  
Historic Preservation Graduate Certificate  
Urban and Community Design Graduate Certificate  
Book History and Digital Humanities Graduate Certificate  
English Language for Academic and Professional Communication Graduate Certificate  
Ethics Graduate Certificate  
Geographic Information Science and Technology Graduate Certificate  
Linguistics Graduate Certificate  
Mathematics Graduate Certificate  
Medieval and Renaissance Studies Graduate Certificate  
Psychological Methods and Analysis Graduate Certificate (pending THECB approval)  
Publishing and Editing Graduate Certificate  
Strategic Studies Graduate Certificate  
Teaching English in International Contexts Graduate Certificate  
Teaching Technical Communication Graduate Certificate  
Business Analytics Graduate Certificate  
Essentials of Business Graduate Certificate  
Finance Graduate Certificate  
Applied Behavior Analysis Graduate Certificate  
Autism Graduate Certificate

College Student Counseling Graduate Certificate  
Developmental Literacy Graduate Certificate  
Dual Sensory Impairment Graduate Certificate  
Higher Education Administration Graduate Certificate  
Institutional Research and Institutional Effectiveness (IRIE) Graduate Certificate  
Master Mentor Graduate Certificate  
Mental Health Counseling Graduate Certificate  
Multidisciplinary Science Graduate Certificate  
Sensory Impairment and Autism Spectrum Disorders Graduate Certificate  
Special Education Transition Graduate Certificate  
Teacher Advancement Program (TAP) Connect: Educational Leadership Graduate Certificate  
Teacher Advancement Program (TAP) Connect: Literacy Graduate Certificate  
Teacher Advancement Program (TAP) Connect: STEM Graduate Certificate  
Teacher Leadership Graduate Certificate  
Construction Engineering and Management Graduate Certificate  
Cybersecurity for Critical Infrastructure Graduate Certificate  
Forensic Engineering Graduate Certificate  
Software Engineering Graduate Certificate  
Addictions and the Family Graduate Certificate  
Charitable Financial Planning Graduate Certificate  
Gerontology Graduate Certificate  
Personal Financial Planning Graduate Certificate  
Youth Development Specialist Graduate Certificate  
Youth Program Management and Evaluation Graduate Certificate  
Art History, Criticism, and Theory Graduate Certificate  
Early Music Performance Practice Graduate Certificate  
Piano Pedagogy Graduate Certificate  
Global Community Health Graduate Certificate

**Texas State**

Not – Online Graduate certificate in Environmental Interpretation, Water Resource Policy, GIS and Location Analysis

<http://www.geo.txstate.edu/degrees-programs/certificates.html>

### **University of Arizona**

Online Graduate Certificate in Health Administration

<https://publichealth.arizona.edu/academics/certificates/health-administration>

### **University of Colorado**

Not - Online Graduate Certificate in Neuroscience

<http://www.colorado.edu/neuroscienceprogram/gradcert.html>

### **University of Colorado Boulder**

Graduate certificate in Environment, Policy, and Society

<http://www.colorado.edu/envs/certificate-programs>

### **University of Colorado**

Graduate Certificate in Environmental Sciences

[http://catalog.ucdenver.edu/preview\\_program.php?catoid=6&poid=1175&returnto=579](http://catalog.ucdenver.edu/preview_program.php?catoid=6&poid=1175&returnto=579)

### **University of Colorado**

Online Graduate Certificate Information Technology

<http://www.usnews.com/education/online-education/university-of-colorado-at-boulder-OCIT0168/computer-information-technology>

### **University of Florida**

Graduate Certificate in Neuroscience

<http://neuroscience.ufl.edu/education/biomedical-neuroscience-certificate-program/>

### **University of Florida**

Online Graduate Certificate in Forensic Toxicology

Online Graduate Certificate in Forensic DNA & Serology

Online Graduate Certificate in Forensic Drug Chemistry

Online Graduate Certificate in Clinical Toxicology

<https://sbmi.uth.edu/prospective-students/academics/certificate.htm>

### **University of Florida**

Online graduate certificate in Pharmaceutical Chemistry

<http://pharmchem.cop.ufl.edu/programs/graduate-certificate/>

### **University of Florida**

Online graduate Certificate in Pharmaeconomics

Online Graduate certificate in Biodegradation and Bioemediation

Online graduate certificate in Biomedical Neuroscience

Online graduate certificate in Ecological Restoration

Forensic Death Investigation

Geospatial Analysis

Instructional Design

K-12 Teaching with Technology

Medical Anatomy and Physiology

Medical Entomology

Medical Human Anatomy

Medical Physics

Medical Physiology

Online Teaching and Learning

Pharmaceutical Regulation

Public Health

Soil Ecosystems

Sustainable Land Resource and Nutrient Management

Veterinary Forensic Science

Wetland and Water Resource Management

Wildlife Forensic Science and Conservation

<http://distance.ufl.edu/online-certificates/>

### **University of Houston**

Online graduate certificate in online Teaching and Learning

Integrating Innovative Technologies in Health Science Education

<https://sbmi.uth.edu/prospective-students/academics/certificate.htm>

### **University of Houston**

Graduate Certificate in Hydrogeology.

<http://www.geosc.uh.edu/graduate/hydrogeology-certification/>

### **University of Houston**

Designing and Development Educational Graphics

<http://www.uh.edu/distance/degrees-programs/online-certificates/ed-graphics-grad-cert/>

### **University of Houston**

Designing and Development Educational Multimedia

<http://www.uh.edu/distance/degrees-programs/online-certificates/ed-multimedia-grad-cert/>

### **University of Houston**

Online Teaching and Learning

<http://www.uh.edu/distance/degrees-programs/online-certificates/online-teach-learn-grad-cert/>

**University of Houston**

Integrating Innovative Technologies in Health Science Education

<http://www.uh.edu/distance/degrees-programs/online-certificates/innov-tech-grad-cert/>

**University of Houston**

Foresight

<http://www.uh.edu/distance/degrees-programs/online-certificates/foresight-grad-cert/>

**University of Houston**

Corporate Entrepreneurship

<http://www.uh.edu/distance/degrees-programs/online-certificates/corp-entr-undergrad-cert/>

**University of Houston**

Technology Applications 7-12 Certificate

<http://prtl.uhcl.edu/education/certifications/add-on-certificates/technology-applications-7-12>

**The University of Kansas**

Graduate Certificate in Environment Assessment

<https://edwardscampus.ku.edu/graduate-certificate-environmental-assessment>

**University of Massachusetts**

Online Graduate Certificate in Health Informatics

[https://continuinged.uml.edu/him/certificate\\_healthinformatics.cfm](https://continuinged.uml.edu/him/certificate_healthinformatics.cfm)

## **University of New Mexico**

Applied Behavior Analysis  
Autism Spectrum Disorder  
Clinical and Translational Science  
Computation Science and Engineering  
Educational Diagnosis  
Historic Preservation and Regionalism  
Law, Environment, and Geography  
Race and Social Justice  
Teaching English as a Second Language  
University Science Teaching  
Urban and Region Design  
Women Studies

## **UT Dallas Graduate Certificates**

Business Intelligence and Data Mining  
Corporate Innovation  
Cyber Security  
Data Science  
Economic & Demographic Data Analysis  
Enterprise Systems  
Fund Raising  
Geographic Information System  
Geospatial Intelligence  
Healthcare Information Technology  
Healthcare Leadership and Management for Physicians  
Holocaust Studies

Lean Six Sigma

Lean Six Sigma in Healthcare Quality

Local Governing Management

Management

Mathematics/Science – Uteach Dallas

New Venture Entrepreneurship

Nonprofit Governance

Nonprofit Management

Oil and Gas Financial Management

Product Lifecycle and Supply Chain Management

Remote Sensing

### **University of Texas at Dallas**

Online Graduate Certificate in Healthcare Leadership and Management

[http://physician-leadership.utdallas.edu/?utm\\_source=google&utm\\_campaign=search-eta&utm\\_medium=cpc](http://physician-leadership.utdallas.edu/?utm_source=google&utm_campaign=search-eta&utm_medium=cpc)

### **University of Texas Health Science Center at Houston**

Online graduate certificate in Biomedical Informatics

Online graduate certificate in Applied Biomedical Informatics

Online Graduate certificate in Public Health Informatics

<https://sbmi.uth.edu/prospective-students/academics/certificate.htm>

### **UT Rio Grande Valley**

Online Graduate Certificate in Technology Leadership in Education, Digital Literacy Leader,

<http://www.utcoursesonline.org/programs/programinfo/med/educationaltechnology/tlecert.html>

## **UT San Antonio Graduate Certificates**

Applied Behavior Analysis

Bilingual Reading Specialist

Business of Health

Creative Writing

Geographic Information Science

Higher Education Administration

Historic Preservation

Keyboard Pedagogy

Keyboard Performance

Language Acquisition and Bilingual Psychoeducational Assessment

Nonprofit Administration and Leadership

Real Estate Finance and Development

Rhetoric and Composition

Spanish Translation Studies

Teaching English as a Second Language

Technology Entrepreneurship and Management

Urban and Regional Planning

Voice Pedagogy

## **Other Graduate Certificates**

University of Houston Online Graduate Certificates:

<http://www.uh.edu/distance/degrees-programs/online-certificates/>

Kansas State University:

<http://global.k-state.edu/education/academic-advising/certificate/>

Johns Hopkins:

<http://advanced.jhu.edu/academics/certificate-programs/>

University of Arizona:

<http://www.arizona.edu/topics/academics>

Georgian Southern:

<http://cogs.georgiasouthern.edu/admission/certificate-programs/graduate-certificate-in-applied-economics/>

University of Florida:

<http://catalog.distance.ufl.edu/program.aspx?p=186>

Portland State:

<http://www.pdx.edu/esm/hydrology-certificate>

University of Houston:

<http://www.geosc.uh.edu/graduate/hydrogeology-certification/>

University of Maryland

<https://www.umuc.edu/analytics/academics/>

Harvard:

[http://www.extension.harvard.edu/academics/courses/courses-by-certificate/Data%20Science%20Certificate?\\_ga=1.206903441.3652614176.1473609148](http://www.extension.harvard.edu/academics/courses/courses-by-certificate/Data%20Science%20Certificate?_ga=1.206903441.3652614176.1473609148)

Stanford:

<http://scpd.stanford.edu/public/category/courseCategoryCertificateProfile.do?method=load&certificateId=10555807>

Boston University:

<http://www.bu.edu/online/programs/certificate-programs/data-analytics/>

Boston University:

<https://www.bu.edu/academics/sed/programs/science-education/graduate-certificate-in-general-science-education/>

U of Mass

<https://www.umb.edu/academics/caps/certificates/changing-world-science>

Johns Hopkins:

<http://advanced.jhu.edu/academics/certificate-programs/science-writing/>

Washington State University:

<https://online.wsu.edu/cert/scienceTechnologyWriting.aspx>

Johns Hopkins – Graduate Certificates in Education

University of Houston – Graduate Certificates

<http://www.uh.edu/graduate-school/prospective-students/programs/certificate-programs/>

**On Master's Degrees Outside UTEP**

**Columbia University**

Online MS in Actuarial Science