# **Statistics**

@ Tarleton

#### Hands-on Learning







Start working on your future today!

#### Academic Success Resources

Math Clinic – MATH 203 Science Clinic – SCI 123 Writing Center – OAG 239 Speaking Center – OAG 228B Peer Mentors/Tutors Study **Skills Sessions Faculty** Advisors/Mentors

**MyPlan Career Exploration** HandShake – for jobs **Resume Clinic Mock Interviews Business Etiquette Dinner** Job Shadow

**Career Services** 

**Resources** 

#### **A Great Career**

"Statisticians are slated to grow 33% by 2029 and has a median salary of \$92,270 (May 2020)." - The Bureau of Labor and Statistics

#### **IMPORTANT – Math Placement**

For students wishing to start in Calculus 1 (MATH 2413) placement is by

- qualifying score on the NextGen AAF (a mathematics placement exam), or
- college credit for Trigonometry (MATH 1316), or
- college credit for Precalculus (MATH 2412).

#### Take the NextGen AAF math placement!

It's free at the Center for Academic Testing. (254) 968-9423

### **Possible Career Titles**

Actuary, Business Analyst, Data Analyst/Scientist, Economist, Environmental Scientist, Investigator, Manager, Pharmaceutical Engineer, Project Manager, Quality Analyst, Researcher, Risk Analyst, Software Engineer, and, of course, Statistician



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# **Discover Statistics**

Statistics is utilized in many different fields including actuary, agriculture/animal science, astronomy, biology, business, census/demography, economics, education, engineering, government, health science, journalism, marketing, sociology, sports, telecommunications, and transportation. All such jobs involve the collecting, analyzing, modeling, inferring, and presenting conclusions about data.

# **Best STEM Jobs for 2022**

"Actuarial science, data scientist, operations research analyst, and statistician are in the top **15 jobs**." – US News

# **Statistics Concentration**

- risk in the insurance and finance industries. It is consistently listed by the Wall Street Journal as the "Best Job" to have in the United States.
- books, painting, music. But in simple terms, using mathematics to analyze data to find patterns and generate new insights that helps your company make money.
- analyze DNA in our world.
- Mathematics Combine Mathematics and Statistics to become even more marketable. Allows you to create and analyze mathematical as well as statistical models.
- Business Could choose, marketing, finance, logistics, etc.

#### Learn More about Statistics

- American Statistical Association: https://www.amstat.org/
- This is Statistics: https://thisisstatistics.org/







# **Statistics**

# **Major Action Plan**



Join the best and brightest

"Participate in an exciting new degree, built with the modern student in mind which utilizes the cutting-edge techniques to address real world problems." - Dr. Keith E Emmert, Professor

**Pre-Actuarial** – The discipline that applies mathematical and statistical methods to assess

**Data Analyst / Scientists** – The **best job in** America, according to Glassdoor. The field is new and growing. What is it? Think artificial intelligence, self-driving cars, auto generating

Biostatistics- Combines Biology and Statistics. Learn how to create and analyze statistical models which can predict the spread of disease, perform endangered species modeling, or

#### **Excellence** • Integrity • Respect

# Statistics Major Action Plan

		1st Year		2nd Year		3rd Year		F
How to use this MAP Use the Columns and rows to help you navigate your engagement in your program, university, and future profession.	Get Your Courses	<ul> <li>Complete at least 30+ credit hours including</li> <li>First Year Seminar.</li> <li>Calculus 1 &amp; 2.</li> <li>Foundations of Math.</li> <li>Procedural Programming.</li> <li>See an Advisor to choose a concentration and file your degree plan.</li> </ul>	Math Clinic	<ul> <li>Accumulate 60+ hours.</li> <li>Important prerequisites – See your 8 semester plan.</li> <li>See an Advisor.</li> <li>Visit with Faculty for mentoring</li> </ul>	eriences	<ul> <li>Accumulate 90+ hours.</li> <li>Important prereqs – See your 8 semester plan.</li> <li>See an Advisor.</li> <li>Consider graduate school opportunities.</li> <li>Visit with Faculty for mentoring</li> </ul>	<b>Graduation!</b>	<ul> <li>Complet requirem</li> <li>See an A</li> <li>Visit with</li> </ul>
<ul> <li>This MAP will</li> <li>Guide you</li> <li>Inform you</li> <li>Motivate you</li> </ul>	Get Experience	<ul> <li>Visit with Faculty to learn about and participate in their research.</li> <li>Experience campus events.</li> <li>Use Academic Resources: Math Clinic, Science Clinic and Writing Center.</li> <li>Work as a grader or tutor in the Math Clinic.</li> </ul>	nities in the M	<ul> <li>Participate in undergraduate research with Faculty.</li> <li>Apply to work as a grader or tutor in the Math Clinic.</li> <li>Develop your resume (Career Services).</li> <li>Apply for a Summer R.E.U. (Research Experience for Undergraduates).</li> </ul>	or Research Exp	<ul> <li>Participate in undergraduate research and/or an internship.</li> <li>Work as a grader, tutor, etc.</li> <li>Polish your resume.</li> <li>Participate in Tarleton and TAMUS Career Fairs.</li> <li>Develop professional references/portfolio website.</li> <li>Apply for a Summer R.E.U.</li> </ul>	J • Apply for	<ul> <li>Participa research</li> <li>Work as</li> <li>Update y</li> <li>Participa TAMUS (</li> <li>Develop reference</li> </ul>
<ul> <li>Encourage you to get involved</li> <li>Provide a plan</li> <li>Help you hone your</li> </ul>	Get Involved	<ul> <li>Join a club such as Math Club or T.E.A.M.</li> <li>Explore student organizations in TexanSync.</li> <li>Participate in Service Day, Tarleton Roundup and other service activities.</li> <li>Attend a local research symposium.</li> </ul>	re Job Opportu	<ul> <li>Be active and consider serving in a leadership role in a club such as T.E.A.M or Math Club.</li> <li>Participate in service activities.</li> <li>Attend a local research symposium or a regional conference.</li> </ul>	e Internships	<ul> <li>Serve in a leadership role in a club</li> <li>Consider presenting at a research symposium.</li> <li>Participate in Kaggle/ASA Competition</li> <li>Participate in professional networking activities and service activities.</li> </ul>	ternship or RE	<ul> <li>Plan to p symposit</li> <li>Participa Competi</li> <li>Join a na such as t Actuarie Society, Statistica</li> </ul>
marketable skills and prepare you for your career.	Get Ready	<ul> <li>Attend job and internship fairs.</li> <li>Update your FAFSA and Scholarship application every year.</li> </ul>	Exploi	<ul> <li>Update and polish your resume.</li> <li>Explore career opportunities</li> <li>Attend job and internship fairs.</li> <li>Update your FAFSA and Scholarship application yearly.</li> <li>Consider taking Exam-P (Probability) or Exam-FM (Financial Mathematics)</li> </ul>	Pursu	<ul> <li>Plan your job-search and hone your interview skills.</li> <li>See a Graduate Advisor about graduate degree opportunities and internships.</li> <li>Create a LinkedIn profile.</li> <li>Consider taking Exam-P or Exam-FM</li> <li>Apply for Graduation!</li> </ul>	Do an In	<ul> <li>Complete school set school set school set opportuit assistant</li> <li>Consider (Investme Markets)</li> <li>GRAD</li> </ul>

#### **Final Year**

lete your degree ements.

Advisor for advising.

ith Faculty for mentoring

#### ipate in undergraduate rch and/or an internship.

as a grader, tutor, etc. e your resume. ipate in Tarleton and IS Career Fairs. op professional nces./portfolio website

#### o present at a research osium. pate in Kaggle/ASA

- etition
- national organization
- s the Society of
- ries, Casualty Actuarial
- y, or the American
- ical Association.

#### lete your job/graduate I search. Watch deadlines Graduate Advisor about tunities for graduate antships.

der taking Exam-IFM tment & Financial ets)

### DUATE!!

## Marketable Skills

- Problem solving, design and technical skills
- Communication and interpersonal skills
- Decision making
- Teaming skills
- Enthusiasm, perseverance and commitment
- R proficiency
   Career Prep

#### Associate of the Society of Actuaries *or* Casualty Actuarial Society Pathway

 Introductory I (Exam-P & Exam-FM) & also grants certain VEE (Validation by Educational Experience) Certifications
 Introductory II (Exam-IFM)

#### Data Scientist

- Kaggle Competitions
- American Statistical Association Competitions
- Portfolio Website

# Grad School:

Statistics or Mathematics discipline, including Data Science, Actuarial Science, Statistics, Med School, Law School