



# College of Science

Department of Data Science  
Bachelor of Science in Data Science (Physics)

EDUCATE  
ENGAGE  
EXCEL

| Beginning the Journey                                                                                                                                                                                                                                                                                                                                     | Trailblazing the Path                                                                                                                                                                                                                                                                                               | Destination Graduation                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>EDUCATE</div> <ul style="list-style-type: none"><li>- Review requirements.</li><li>- Investigate/select different concentrations.</li><li>- Take Data 1301 and if appropriate Math 1421 (Pre-Calculus) in first semester. Take Data 3402 and Math 1426 (Calculus 1) in second semester.</li><li>- Make first draft of your four-year plan.</li></ul> | <div>EDUCATE</div> <ul style="list-style-type: none"><li>- Meet Data Science advisor and map out your four-year schedule; revise as needed.</li><li>- Mix in core courses to maintain healthy schedule</li><li>- Consider taking a required science class(es) in summer to maintain schedule flexibility.</li></ul> | <div>EDUCATE</div> <ul style="list-style-type: none"><li>- Complete Capstone project.</li><li>- Complete degree requirements.</li><li>- If you are planning to go to graduate school, consider taking graduate classes at UTA.</li><li>- Apply for graduation.</li><li>- Take GREs, if appropriate.</li></ul>    |
| <div>ENGAGE</div> <ul style="list-style-type: none"><li>- Explore undergraduate research possibilities.</li><li>- Discover the library resources.</li><li>- Attend seminars/colloquial</li></ul>                                                                                                                                                          | <div>ENGAGE</div> <ul style="list-style-type: none"><li>- Find undergraduate research and/ or internship opportunities for Capstone project in Senior year.</li><li>- Join a club, service fraternity/sorority.</li></ul>                                                                                           | <div>ENGAGE</div> <ul style="list-style-type: none"><li>- Visit Career Development Center.</li></ul>                                                                                                                                                                                                             |
| <div>EXCEL</div> <ul style="list-style-type: none"><li>- Consider pursuing a minor or second major from the College of Science.</li></ul>                                                                                                                                                                                                                 | <div>EXCEL</div> <ul style="list-style-type: none"><li>- Apply for REUs or other summer programs.</li><li>- Study abroad.</li><li>- Take a leadership position in a club.</li></ul>                                                                                                                                 | <div>EXCEL</div> <ul style="list-style-type: none"><li>- Get recommendation letters from your faculty mentor.</li><li>- Explore potential careers online.</li><li>- Apply for LSAMP or other programs.</li><li>- Write a resume and do mock interviews.</li><li>- Visit and apply for graduate school.</li></ul> |



## MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.

### CAREER DEVELOPMENT

- Internships
- Fellowships
- Assistantships
- Job Fairs
- Scholarships

### GLOBAL ENGAGEMENT

- Global Grounds
- Global Mavericks Program
- International Week
- Language Exchange Program
- Study Abroad

### LEADERSHIP DEVELOPMENT

- Mentorships
- Student Organizations
- Peer Education
- Volunteering
- Tutoring and Coaching

### COMMUNITY ENGAGEMENT

- Service Learning
- UTA Volunteers
- Camps for high school students

### UNDERGRADUATE RESEARCH

- Undergraduate Research Assistantship
- Contact your professors for opportunities



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## Department of Data Science

### Bachelor of Science in Data Science (Physics)

#### What career options do I have with this major?

- Data Scientist
- Statistician
- Machine Learning Scientist
- Data Analyst
- Operation Research Analyst
- Political Analyst
- Financial Analyst
- Machine Learning Engineer
- Business Intelligence Developer
- Applications Architect
- Enterprise Architect
- Infrastructure Architect
- Scientist
- Graduate School in a Scientific Field

#### Workforce Skills

- Communication: Develop and articulate ideas clearly and effectively across all mediums, including but not limited to written, oral, and digital communication.
- Creativity/Ingenuity: Synthesizes existing ideas and concepts in innovative and creative ways to develop new ways of thinking or working; engages in divergent thinking and risk-taking.
- Professionalism: Display effective work habits, high integrity, and ethical behavior. Possess the ability to demonstrate skills confidently and apply talents to achieve professional success.

#### Career Readiness

- Analyzing data and performing calculations
- Experience with data science software packages and libraries
- Communication skills
- Collaborating with a team
- Computer programming
- Developing computer simulations

#### Take Action

- Explore workforce skill development through on and off-campus activities.
- Engage with the UTA Career Development Center at [uta.edu/careers](http://uta.edu/careers).
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Apply for on-campus employment
- Join Handshake, our career services platform
- Participate in career development programs

Visit [www.uta.edu/student-success/major\\_maps](http://www.uta.edu/student-success/major_maps) for the latest version of this major map.

#### College of Science

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<https://www.uta.edu/science/data-s>

