

GRADUATE CERTIFICATE IN DATA SCIENCE

The fully online Graduate Certificate in Data Science is designed to educate professionals or non-traditional students with a stackable set of core Data Science courses, which help students obtain industry-recognized, immediately valuable, and in-demand skills in the workplace.

Additional Information: Reference the Program Landing Page (<https://www.shsu.edu/programs/certificate/data-science/>) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Graduate Certificate in Data Science program must submit the following directly to the Office of Graduate Admissions (<https://www.shsu.edu/dept/graduate-admissions/prospective-students.html>):

1. Graduate Application (<http://www.shsu.edu/admissions/apply-texas.html>)
2. Application fee (<http://www.shsu.edu/admissions/apply-texas.html>)
3. Official transcript from the baccalaureate degree granting institution
4. Bachelor's degree in Computer Science or a closely related field with a minimum GPA of 3.0
5. Up-to-date Resume

| Code | Title | Hours |
|---|-----------------------|-----------|
| Graduate Certificate in Data Science | | |
| Required Courses | | |
| COSC 6321 | Distributed Computing | 3 |
| COSC 6331 | Data Visualization | 3 |
| COSC 6335 | Big Data Analytics | 3 |
| COSC 6338 | Data Science Capstone | 3 |
| Prescribed Electives | | |
| Select one of the two prescribed electives: | | |
| COSC 6332 | Computer Vision | |
| COSC 6333 | Deep Learning | |
| Total Hours | | 15 |

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Data Science is designed to provide graduates with the following marketable skills:

- Statistical analysis and computing skills.
- Processing large data sets skills.
- Machine learning and deep learning skills.
- Data analysis and visualization skills.