

BACHELOR OF SCIENCE, MAJOR IN INTEGRATED STUDIES: SOCIAL AND DATA ANALYTICS CONCENTRATION

The BS in Integrated Studies: Social and Data Analytics Concentration combines the Economics, Political Science, and Statistics and Data Science minors to provide students with skills in analytical sciences and statistics, such as data collection, analysis, visualization, and interpretation. These skills can be applied across various industries that require data collection and analysis to help organizations make informed decisions, develop policies based on data-driven insights, conduct market analysis and reporting, research market conditions to identify potential sales opportunities, and analyze economic issues using statistical methods. Students will learn to use data to develop strategies for business growth, understand human behavior and societal trends, apply advanced analytics and machine learning, and solve complex problems.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Social and Data Analytics Concentration		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication) ¹		6
Component Area II (Mathematics) ^{2,3}		3
Component Area III (Life and Physical Science) ²		8
Component Area IV (Language, Philosophy, and Culture) ²		3
Component Area V (Creative Arts) ²		3
Component Area VI (U.S. History) ²		6
Component Area VII (Political Science/Government) ²		6
Component Area VIII (Social and Behavioral Sciences) ²		3
Component Area IX (Component Area Option) ²		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas ⁴		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone ⁵	3
Minor: Required		
Minor Area I: Economics		
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
Select any three ECON Advanced Elective (3000- or 4000-level) courses		9
Select any ECON Advanced Elective (4000-level) course		3
Minor Area II: Political Science		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
Select any four POLS Advanced Elective (3000- or 4000-level) courses		12
Minor Area III: Statistics and Data Science		
STAT 3379	Statistical Methods in Practice	3
or STAT 3390	Probability and Statistics for Sciences	
STAT 3385	Statistical Methods for Data Science	3
STAT 4374	Regression Modeling & Analysis	3
STAT 4390	Introduction to Statistical Learning	3

Select two courses from the following STAT Electives:

6

STAT 3380	Statistical Design and Analysis of Experiments
STAT 3381	Sample Survey Methods
STAT 3382	Introduction to Statistical Computing
STAT 4370	Special Topics in Statistics
STAT 4371	Theory and Applications of Probability and Statistics I
STAT 4372	Theory and Applications of Probability and Statistics II
STAT 4373	Nonparametric Statistics
STAT 4375	Quality Control & Reliability
STAT 4376	Time Series and Forecasting
STAT 4377	Introduction to Applied Bayesian Analysis

Total Hours**120**¹ Taken first year.² Taken first or second year.³ MATH 1332 is recommended.⁴ These courses are in addition to major/minor requirements.⁵ Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.**Notes**

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii) ¹		3 Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)	3
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)		3 Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3
Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)		3 ENGL 1302 ²	3
ENGL 1301 ²		3 HSTY 1302 ³	3
HSTY 1301 ³		3 POLS 2305 ⁴	3
15		15	

Second Year

Fall	Hours	Spring	Hours
Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaaiii)		4 Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaaiii)	4
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		1 INTG 3301	3
CHSS Core ^{5, 6}		3 Minor Area I: Economics	3
Minor Area I: Economics		3 Minor Area II: Political Science	3
POLS 2306 ⁴		3 Minor Area III: Statistics and Data Science	3
		14	16

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Economics		6 DSR Advanced Electives ⁷	3
Minor Area II: Political Science		6 Minor Area I: Economics	3
Minor Area III: Statistics and Data Science		3 Minor Area II: Political Science	6
		Minor Area III: Statistics and Data Science	3
		15	15

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives ⁷		6 DSR Advanced Electives ⁷	6
Minor Area I: Economics		3 INTG 4301 ⁸	3
Minor Area II: Political Science		3 Minor Area I: Economics	3
Minor Area III: Statistics and Data Science		3 Minor Area III: Statistics and Data Science	3
		15	15

Total Hours: 120

- ¹ MATH 1332 is recommended.
- ² Satisfies Core Curriculum requirement for Component Area I (Communication).
- ³ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- ⁴ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁵ CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
- ⁶ The course chosen in this block may also satisfy a requirement for a minor.
- ⁷ Select 15 advanced elective hours (3000-4000) from related subject areas.
- ⁸ Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

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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 BS in Integrated Studies: Social and Data Analytics Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Data-driven policy and economic analysis.
- Quantitative research and predictive modeling.
- Evidence-based solutions for business growth, public policy, and economic planning across diverse industries.