COORDINATING COMMISSION FOR POSTSECONDARY EDUCATION

140 N. 8th Street Suite 300 Lincoln Nebraska 68508

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PROPOSAL FOR NEW INSTRUCTIONAL PROGRAM

Form 92-40

Institution Submitting Proposal:	Southeast Community College
Title of Program:	Data Science
CIP Code	30.7101
SOC Code	15-2041, 15-2051, 43-9111
Organizational Unit in which Program will be	Arts & Sciences Division
located:	
Name of Contact Person in the event	Bev Cummins, Vice President of Program
additional information is needed:	Development and Lincoln Campus Director
Telephone:	402-437-2554
Degree, Diploma, or Certificate to be offered	Associate of Science
Proposal date to initiate program:	August, 2025
List the location(s) where this program will be	Lincoln, Online
offered:	
If the program has a projected ending date,	N/A
please so indicate:	
Date Approved by Governing Board:	

Chief Executive Officer's or other Authorized Officer's signature:

I. Purpose and Description of the Data Science Program

Southeast Community College (SCC) proposes to establish an Associate of Science degree in Data Science. Data science is the study of data to extract meaningful insights for business. The Associate of Science in Data Science provides students with a foundational understanding of data analysis, statistical modeling, and computational techniques used to extract insights from large datasets. This program is designed to equip students with the knowledge and skills necessary to pursue careers in the rapidly growing field of data science. Through a combination of theoretical coursework and hands-on practical experience, students will learn how to collect, clean, analyze, and interpret data to inform decision-making processes across various industries such as banking, finance, insurance, media and entertainment, and healthcare.

The program covers a range of topics including statistical analysis, programming languages such as Python and R, data visualization, machine learning, and database management. Students will gain proficiency in using analytical tools and software commonly employed in data science practice. Our curriculum is structured to provide a solid foundation in mathematics, statistics, and computer science, while incorporating real-world case studies and projects to reinforce learning outcomes. Additionally, students will have the opportunity to work on collaborative projects with local businesses and organizations to gain practical experience and build professional networks.

This program would appeal to a wide range of individuals, from those looking to change careers and transition to a more in-demand field to recent high school graduates pursuing a technology-related field. As this field continues to emerge, working professionals may seek to upskill their current roles and need more formal training and education in data science. Additionally, theoretically trained college and university students may wish to transfer to a program to attain hands-on experience.

Upon completion of the program, graduates will be prepared for entry-level positions in data analysis, business intelligence, market research, and other related fields. Furthermore, the program lays a strong foundation for students who wish to pursue further education in data science or related disciplines at the bachelor's level or beyond. All the courses listed in the curriculum plan are transferrable to UNL who have stated our Data Science program "looks like an excellent fit" for their Data Science program and students would be able to "transfer into either the College of Arts and Sciences or the College of Engineering" to complete a four-year degree. We are also working with UNO and UNK to finalize a similar pathway. Program delivery includes hands-on instruction and online delivery on all SCC Campuses. As shown in the curriculum plan below, the A.S. in Data Science includes mathematics, statistics, and computer programming, the bulk of which are already existing courses at SCC that will be used to develop a pathway to the A.S. in Data Science.

Course Number	Course Name	Credit Hours	New or Existing Course?
ACFS 1015	Success@SCC	1.0	Existing
Math/Computer Science Core C			
CSCI 1550	Computer Science I	4.0	Existing
CSCI 2311	Data Structures and Algorithms for Informatics	3.0	NEW
INFO 2578	Data Analysis using Python	3.0	Existing

MATH 1300	Pre-Calculus	5.0	Existing
MATH 1600	Calculus I	5.0	Existing
MATH1700	Calculus II	5.0	Existing
MATH 2170	Applied Statistics	3.0	Existing
MATH 2270	Statistics II	3.0	NEW
MATH 2314	Linear Algebra	3.0	NEW
MAIII 2314	Total Math & Computer Science Core	34.0	INEVV
	Written Communications	34.0	
ENGL 1010	Choose 1 of the following:		Eviation
ENGL 1010	English Composition I (Recommended)	3.0	Existing
ENGL 1010H	Composition I Honors		
ENGL 1054	Writing and Communities		
ENGL 1000	Choose 1 of the following:		
ENGL 1020	English Composition II	2.0	Eviation
ENGL 1020H	Composition II Honors	3.0	Existing
ENGL 2560	Technical Writing (Recommended)		
OFFT 2120	Business Communication Strategies		
	Speech Communications		
	Choose 1 of the following:		
COMM 1090	Fundamentals of Human Communication		
COMM 1110	Public Speaking	3.0	Existing
SPCH 1110	Public Speaking	3.0	
COMM 2100	Communicating in Groups and Teams		
COMM 2810	Business and Professional Communication		
	Natural Science With Lab	Т	
	Choose 2 of the following:		
BIOS 1010	General Biology I (Recommended)		
BIOS 1090	Plant Biology		
BIOS 1120	Introduction to Zoology		
BIOS 1140	Human Anatomy		
BIOS 1400	Biology I (Recommended)		
BIOS 1410	Biology II		
BIOS 2130	Human Physiology		
BIOS 2200	Principles of Ecology		
BIOS 2250	Human Anatomy & Physiology I		
BIOS 2260	Human Anatomy & Physiology II		
BIOS 2410	General Genetics		
BIOS 2460	Microbiology	Minimum of	
BIOT 1400	Introduction to Biotechnology I	8	Existing
BIOT 2400	Introduction to Biotechnology II		
CHEM 1050	Chemistry and the Citizen		
CHEM 1090	General Chemistry I (Recommended)		
CHEM 1100	General Chemistry II		
GEOG 1500	Physical Geography		
GEOG 1010	Physical Geology		
PHYS 1030	Astronomy		
PHYS 1100	Physical Science		
PHYS1150	Descriptive Physics		
PHYS 1410	Elementary General Physics I (Recommended)		
PHYS 1420	Elementary General Physics II		
PHYS 2110	General Physics I		
PHYS 2120	General Physics II		
	Humanities	,	
	Choose 1 of the following:		
ARTS 1010	Introduction to the Visual Arts		
ARTS 1050	Introduction to Art History & Criticism I		
ARTS 1060	Introduction to Art History & Criticism II		
ARTS 1110	Beginning Drawing I		
ARTS 1210	2-Dimensional Design		Futuation:
ARTS 1330	Beginning Ceramics I	3.0	Existing
ARTS 2510	Beginning Painting I		
ARTS 2650	Introduction to Native American Art		
ARTS2750	Women in Art		
		1	
ARTS 2850	History of Photography		

COMM 2750 Political Communicating in Groups and Teams			1				
ENGL 2050	COMM 2100	Communicating in Groups and Teams					
ENGL 2140	COMM 2750	Political Communication					
ENGL 2140	ENGL 2050	Modern Fiction					
ENGL 2180							
Intro to Women's Literature No. 12200							
ENGL 2200 Science Fiction Literature ENGL 2200 Science Fiction Literature ENGL 2200 Science Fiction Literature ENGL 2200 Endl 2440 American Literature from 1865 ENGL 2220 Endl 2440 American Literature ENGL 2460 Native American Literature ENGL 2460 Native American Literature ENGL 2460 Latinx American Literature ENGL 2470 Asian American Literature ENGL 2520 Endl 2470 Asian American Literature ENGL 2520 Endl 2470 Asian American Literature ENGL 2520 Poorty Writing ENGL 2520 Poorty Writing ENGL 2520 Poorty Writing ENGL 2520 E		•					
ENGL 2200	ENGL 2150	Intro to Women's Literature					
ENGL 2210	ENGL 2160	Children's Literature					
ENGL 2240	ENGL 2200	Science Fiction Literature					
ENGL 2240	FNGI 2210	American Literature from 1865					
ENGL 2440							
ENGL 2450							
ENGL 2450							
ENGL 2470	ENGL 2450	Native American Literature					
ENGL 2520	ENGL 2460	Latinx American Literature					
ENGL 2520	ENGL 2470	Asian American Literature					
ENGL 2530							
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HIST 2100	HIST 2020	American History II					
HIST 2110							
HIST 2804							
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GEOG 1020 World Regional Geography GEOG 1400 Human Geography GEOG2810 Introduction to Water Science							
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GEOG2810 Introduction to Water Science							
PHED 1000 Lifetime Wellness							
	PHED 1000	Lifetime Wellness					

DOLO 1000		1							
POLS 1000	American Government								
POLS 1040	Comparative Politics								
POLS 1080	Introduction to Political Science								
POLS 1600	International Relations								
PSYC 1250	Interpersonal Relations								
PSYC 1810	Intro to Psychology								
PSYC 2210	Animal Behavior								
PSYC 2880	Social Psychology								
PSYC 2960	Lifespan Human Development								
SOCI 1010	Intro to Sociology								
SOCI 1020	Diversity in Society								
SOCI 2000	Gender in Contemporary Society								
SOCI 2010	Social Problems								
SOCI 2150	Issues of Unity and Diversity								
SOCI 2250	Marriage and the Family								
	Culture & Gender Studies								
	Choose 1 of the following:								
ANTH 1020	Introduction to Cultural Anthropology								
ANTH 1120	General Anthropology								
ARTS 2650	Native American Art								
ARTS 2750	Women in Art								
COMM 2110	Intercultural Communication								
ENGL 2150	Introduction to Women's Literature								
ENGL 2440	African American Literature								
ENGL 2450	Native American Literature								
ENGL 2460	Latinx Literature								
ENGL 2470	Asian American Literature								
EDUC 2300	Introduction to Special Education								
GEOG 1400	Human Geography	3.0	Eviating						
GEOG 1020	World Regional Geography	3.0	Existing						
GLST 2980	Global Studies								
HIST 2100	World History to 1500 CE								
HIST 2110	World History since 1500 CE								
HIST 2960	Survey of African American History								
HMRS 1320	Multicultural Competency								
MUSC 2800	Introduction to World Music								
PHIL2610/RELS2610	Comparative Religion								
POLS 1600	International Relations								
SOCI 1020	Diversity in Society								
SOCI 2000	Women in Contemporary Society								
SOCI 2010	Social Problems								
SOCI 2150	Issues of Unity and Diversity								
	Total General Education Core	26.0							
	Total Credit Hours	61.0							

The program learning outcomes for the A.S. in Data Science are as follows:

- Collect, clean, and manipulate datasets using appropriate tools and techniques, demonstrating proficiency in exploratory data analysis and fundamental statistical concepts and techniques, including hypothesis testing, regression analysis, and inferential statistics, and apply them to real-world problems.
- Demonstrate proficiency in programming languages commonly used in data science, such as Python and R, and will be able to write code to perform data manipulation, visualization, and modeling tasks
- Create effective data visualizations using tools such as matplotlib, seaborn, PowerBI, tableau, and ggplot2 to communicate insights and findings from data analysis clearly.
- Apply the principles underlying machine learning algorithms and use data science techniques to build predictive models and uncover patterns in data.

II. Review Criteria

A. CENTRALITY TO ROLE AND MISSION

The mission of Southeast Community College is to empower and transform the diverse learners and communities of southeast Nebraska through accessible lifelong educational opportunities. The College provides dynamic and responsive pathways to career and technical, academic transfer, and continuing education programs that contribute to personal, community, and workforce development.

The creation of an A.S. in Data Science aligns with SCC's mission to provide accessible and responsive pathways for students to attain a credential that best serves the employment pathway they determine. This Associate of Science degree will appeal to high school graduates as well as adult learners seeking to reskill or upskill in the industry. It will appeal to learners looking to obtain the first years of a four-year degree at a lower cost of attendance.

B. EVIDENCE OF NEED AND DEMAND

Workforce Need. According to *Lightcast Q2 2024 Data Set*, (www.economicmodeling.com), a company used by SCC to provide academic program evaluation data, there were **2,959 unique job postings** in data science-related jobs across SCC's service area between January 2020 to May, 2024.

Job Posting Activity



2,959 Unique Job Postings

The number of unique postings for this job from Jan 2020 to May 2024.



576 Employers Competing

All employers in the region who posted for this job from Jan 2020 to May 2024.



22 Day Median Duration

Posting duration is 5 days shorter than what's typical in the region.

According to the U.S. Bureau of Labor Statistics (BLS), the field of data science is experiencing significant growth. Employment of data scientists is projected to increase by 36% from 2023 to 2033, which is much faster than the average for all occupations. This rapid growth is expected to result in approximately 20,800 job openings each year across the nation over the coming decade. The increase in demand is driven by the growing importance of data in decision-making across industries such as technology, healthcare, finance, and scientific research (Bureau of Labor Statistics). By offering this program on the Lincoln campus and online, we can provide opportunities for students across the service area and nation to attain the first two years in Data Science for either entry into the workforce or continued education.

In addition to strong growth, data scientists also command competitive salaries, with a **median annual wage of \$108,020** as of 2023 for bachelor's degree graduates. This indicates a lucrative field with robust opportunities, making it an attractive career path for individuals with skills in data analysis, machine learning, and programming (<u>Bureau of Labor Statistics</u>). This positive outlook suggests that the demand for data science professionals will continue to rise, especially as industries increasingly rely on big data and analytics to drive innovation and efficiency.

Student Demand. According to Gray Associates, the Google search volume for data science is "exceptionally high" and in the 98th percentile of searches with over 4,000 keyword searches for data science careers in just three months in a 120-mile radius of SCC. Enrollment in Data Science programs nationally has increased, with a 73% year-over-year percentage increase as indicated in the chart below. Additionally, online completions in this program of study are extremely high nationally as compared to a lower rate in Nebraska, which may indicate an unmet need for online education within this market. Currently there are no associate degree programs in Nebraska, indicating an opportunity to provide the first two years of a four-year degree program at a lower cost. All courses transfer to UNL and SCC has been in contact with additional four-year institutions to finalize course transfers for students

Student Score: 2		nd entile: 96			Competitive In Score: 8 Perce				
Category	Pctl	Criterion	Value	Score	Category	Pctl	Criterion	Value	Score
	98	Google Search Volume (3 Months)*	4,398	8	Volume of In-	84	Campuses with Graduates**	1	4
	94	International Page Views (12 Months)	1,078	NS	Market	95	Campuses with Grads YoY Change (Units)**	0	NS
01	91	New Student Enrollment Volume (12 Mo.)	39	4	Competition	0	Institutions with Online In-Market Students**	0	0
Size	79	On-ground Completions at In-Market Institutions	6	0		36	Average Program Completions	6	0
	0	Online Completions by In-Market Students	0	0	In-Market	47	Median Program Completions	6	0
	78	Sum of On-ground and Online Completions	6	0	Program Sizes	91	YoY Median Prog. Compl. Change (Units)	5	1
	81	Google Search YoY Change (Units)*	-7	0		99	YoY Median Prog. Compl. Change (%)	5	2
	96	New Student Enrollment Vol. YoY Change (Units)	16	2	In-Market	84	Google Search * Cost per Click**	\$11	1
0	93	Completion Volume YoY Change (Units)	5	1	Saturation	85	Google Competition Index**	0.49	0
Growth	90	Google Search YoY Change (%)*	-0%	2		88	National Online Institutions (Units)**	16	NS
	85	New Student Enrollment Vol. YoY Change (%)	73%	2	National Online Competition	63	Nat'l Online % of Institutions	6%	NS
	98	Completion Volume YoY Change (%)	519%	2	Competition	55	Nat'l Online % of Completions	3%	NS

wishing to continue their education with other

colleges.

By offering an A.S. in Data Science, SCC would afford a specialized degree that provides entry-level access to the workforce as well as the first two years of a four-year degree. Our research of job posting websites indicates there are an increasing number of companies (e.g. Sandhills Global, Sephora, simulation/sports modeling, healthcare, LMI, etc.) who will accept any degree or experience using computer software programs like R, Python, SQL, Tableau, etc.

ADEQUACY OF RESOURCES

1. Faculty and Staff Resources

The Arts and Sciences Division will provide support staffing and administrative oversight. All but three of the courses in the curriculum plan exist in SCC's current course offerings. The three

new courses are already under development and will be delivered by the current full-time or adjunct faculty. To begin the program, we will not need additional instructors or additional sections of current courses, however, if the program grows as we anticipate it ight, there may be a need to increase the number of adjunct instructors to meet demand. We have identified a current faculty member to teach and serve as Program Chair, requiring an annual \$3,000 stipend for those duties, (included in the budget projections). We anticipate current College and Program Advisors can provide sufficient student advising for the program.

Courses will be offered throughout the academic year, and we will continue to enroll students every semester until course and section demand indicates additional needs. It is difficult to predict if there will be an impact on enrollment at this time. We anticipate an initial enrollment of 10 students with a general annual growth of 5-10 students as the program grows and interest develops. The minimum number of students to make the program viable is 8.

2. Physical Facilities and Instructional Equipment

Southeast Community College graduates approximately 70 students from its IT programs each year. However, the demand for IT professionals in Nebraska far exceeds what the College can supply.

The new Sandhills Global Technology Center on SCC's Lincoln Campus opening in January 2025 will include specialized lab spaces and room for program growth, along with dynamic and innovative technologies. The Center will allow programs with space deficiencies to expand the number of graduates, while creating opportunities for asymmetrical programming, including short-term programming, expedited retraining, and customized training to meet Nebraska's workforce needs. The new A.S. in Data Science program will be housed in the Sandhills Global Technology Center and provide students access to state-of-the-art learning spaces in computer science.

Additionally, Sandhills Global is recruiting students for their internship program. With their worldwide headquarters based out of Lincoln there are a lot of opportunities for students to obtain employment. Sandhills Global, just one of many technology-related companies in SCC's 15-county service area, hired nearly 400 employees in 2023. Per their email, "Sandhills internships are a great opportunity to apply the knowledge students are learning in class, in a professional business setting. Our internships are paid between \$18 - \$25/hour; and offer opportunities to work with new technologies, travel domestically and even internationally with flexible scheduling around school and long-term career advancement potential." As previously mentioned, the A.S. in Data Science program includes opportunities for students to work on collaborative projects with local businesses and organizations to gain practical experience and build professional networks.

Instructional Equipment and Informational Resources

Sufficient equipment, hardware, and software are in place at all campus locations. For computer science courses, the class will need to be held in a computer classroom. Many

computer programming platforms offer free access for students, but as the program is developed, we anticipate there may be a need for additional computer software.

Sufficient library staff, library resources and information technology resources are in place at all campus locations to support the students and program.

3. Budget Projections

Initial costs for the A.S. in Data Science program are minimal and include funds for adjunct instruction, a program chair stipend, and computer software. The tuition rates are projections based on past trends as no rates have been set by the SCC Board of Governors for the 2024-2025 academic year. Salary increases are projections based on past trends of a 3% total compensation increase. Please see the Revenue and Expense Projections.

C. AVOIDANCE OF UNNECESSARY DUPLICATION

No other community college in the state offers an Associate Degree in Data Science. Metropolitan Community College offers a certificate program but several of their higher-level data science classes are only offered one time per year. We believe there is no unnecessary duplication.

D. <u>CONSISTENCY WITH THE COMPREHENSIVE STATEWIDE PLAN</u> FOR POSTSECONDARY EDUCATION

The proposed A.S. in Data Science is consistent with Nebraska's Comprehensive Statewide Plan for Postsecondary Education. The program will provide education "...that prepares students for productive and fulfilling lives..." and "...enhances workforce development..." Specifically, the Comprehensive Statewide Plan directs institutions to "provide specialized certification programs in professional, technical, and vocational fields that address regional and state needs" (p. 3-3). Given the current demand for data science detailed previously, SCC's proposed A.S. in Data Science is consistent with this goal.

Revenue-Expense Projections

TABLE 1: PROJECTED EXPENSES - NEW INSTRUCTIONAL PROGRAM

	(FY2	025-2026)	(FY202	6-27)	(FY2027-28)		(FY2028	3-29)	(FY2029	-2030)				
	,	Year 1	Yea	r 2	Yea	r 3	Year	4	Year 5		Total			
Personnel	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost		
Faculty*	0	0	.5 adjunct	\$23,400	.5 adjunct	\$24,000	1.0 adjunct	\$49,200	1.0 adjunct	\$50,400	1.0 adjunct	147,000		
Professional	0	0	0	0	0	0	0	0	0	0	0	0		
Graduate assistants	0	0	0	0	0	0	0	0	0	0	0	0		
Support staff	0	0	0	0	0	0	0	0	0	0	0	0		
Subtotal	0	0	.5	\$23,400	.5	\$24,000	1	\$49,200	1	\$50,400	1	147,000		
Operating														
General Operating		\$10,000		\$10,000		\$12,000		\$12,000		\$14,000		\$50,000		
Equipment		\$4,000		\$4,000		\$4,000	\$4,000		\$4,000		\$20,000			
New or renovated space		0		0		0		0		0		0	0	
Library/Information Resources		0		0	0			0		0		0		
Other (Stipend)		\$3,000		\$3,000	\$3,000		\$3,000 \$3,000		\$3,000			\$15,000		
Subtotal		\$17,000		\$17,000		\$19,000		\$19,000		\$21,000	\$65,000			
Total Expenses		\$17,000		\$40,400	\$43,000		\$43,000		\$68,200		\$71,400		\$212,000	

^{*} Funds for additional adjunct instructors estimates 3% annual increase.

TABLE 2: REVENUE SOURCES FOR PROJECTED EXPENSES - NEW INSTRUCTIONAL PROGRAM

	(FY2025-2026)	(FY2026-27)	(FY2027-28)	(FY2028-29)	(FY2029-2030)	
	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Reallocation of						
Existing Funds	0	0	0	0	0	\$0
Required New						
Public Funds	0	0	0	0	0	\$0
State Funds/Local						
Tax	0	0	0	0	0	\$0
Tuition and Fees *	30CH x 10students x \$127 = \$38,100	30CH x 20 x \$130 = \$78,000	30CH x 25 x \$134 = \$100,500	30CH x 30 x \$138 = \$124,200	30CH x 30 x \$142 = \$127,800	\$486,600
Other Funding						
Total Revenue	\$38,100	\$78,000	\$100,500	\$124,200	\$127,800	\$486,600

^{*} Determined by # of credit hours x # students x tuition & fees with a 3% estimated increase of prior year.