

ROSE STATE COLLEGE
Data Science & Analytics Associate in Science (AS)

UNIVERSITY OF OKLAHOMA
Bachelor of Science (BS) in Industrial Systems Engineering



Year	FIRST SEMESTER			SECOND SEMESTER		
FIRST	Rose State College Class		OU Equivalent	Rose State College Class		OU Equivalent
	ENGL 1113	English Comp. I	ENGL 1113	ENGL 1213	English Comp. II	ENGL 1213
	CHEM 1135	Gen. Chemistry I	CHEM 1315	POLS 1113	Am. Fed. Government	PSC 1113
	HIST 1483 or HIST 1493	US History to 1877 or US History since 1877	HIST 1483 or 1493	PHIL 2113	Intro. to Logic & Critical Thinking	Humanities (Core IV)
	MATH 1914	Calculus I	MATH 1914	MATH 2924	Calculus II	MATH 2924
	MATH 2853	Intro. to Statistics	--	PHYS 2434	Physics I	PHYS 2514
			PHYS 2401	Gen. Physics Lab I	--	
	RSC Credit Hours: 18		Transfer Hours: 15		RSC Credit Hours: 18	
					Transfer Hours: 17	

Year	FIRST SEMESTER			SECOND SEMESTER		
SECOND	Rose State College Class		OU Equivalent	Rose State College Class		OU Equivalent
	MATH 2934	Calculus III	MATH 2934	MATH 2213	Fund. of Data Science	--
	PHYS 2444	[a] Physics II	PHYS 2524	MATH 2973	[a] Diff. Equations	Math Elective
	PHYS 2411	[a] Gen. Physics Lab II	--	ENGR 2303	Mat., Design & Man. Processes	ISE 2303
	ENGR 2103	Statics	ENSC 2113	ENGR 2133	[a] Str. of Materials	CEES 2153
	ENGR 2013	Eng. Graphics & Design	ISE 2311	PHIL 2603	Ethics of Data Science	Soc. Science (Core III)
	CIT 1173 or CIT 1613	C++ Language or Introduction to Java	CS 1313 or CS 1323	CIT 2173 or CIT 2613	Advanced C++ or Advanced Java	[b]
		RSC Credit Hours: 18		Transfer Hours: 15		RSC Credit Hours: 18
					Transfer Hours: 12	



Summer – OU Course: ISE 3293 Applied Engineering Statistics

Year	[c] FIRST SEMESTER			SECOND SEMESTER		
JUNIOR			Hours			Hours
	ENGR 3511	Engineering Experience	1	ENGR 2002	Professional Development	2
	ISE 2823	Enterprise Engineering	3	ENGR 2431	[d] Electrical Circuits	1
	ISE 3304	Design & Manufacturing II	4	ISE 4223	Fundamentals of Engineering Economy	3
	ISE 4113	Spreadsheet Dec. Support Sys.	3	ISE 4563	Quality & Reliability Engineering	3
	ISE 4553	Data-Driven Decision Making I	3	ISE 4633	Probabilistic Systems Models	3
	ISE 4623	Deterministic Systems Models	3	ISE 4804	Ergonomics in Systems Design	4
	Credit Hours:		17	Credit Hours:		16

Year	FIRST SEMESTER			SECOND SEMESTER		
SENIOR			Hours			Hours
	ISE 4333	Production Systems/Operations	3	ENGR 2461	[d] Thermodynamics	1
	ISE 4383	Systems Evaluation	3	ENGR 3441	[d] Fluid Mechanics	1
	ISE 4663	Systems Analysis Using Simulation	3		ISE Tech Elective	3
	ISE 4853	Data-Driven Decision Making II	3		ISE Elective	3
		[e, f] Approved Elective (Core IV)	3	ISE 4393	Capstone Design Project	3
	Credit Hours:		15	Credit Hours:		11

Notes:

[a] These course(s) are in addition to the requirements for the AS degree; however, they will count toward the BS degree at OU. These courses may be offered in Summer at OU.

[b] This course will not count toward the BS degree; however, it satisfies the prerequisites for the OU MS in Data Science.

[c] For the BS degree, student must meet all OU requirements.

[d] Equivalent courses exist at RSC that will count toward the BS degree at OU.

[e] A reverse transfer of this course will meet the AS degree requirements at RSC.

[f] Per OU requirements, at least one course used to satisfy the general education requirements must be at the upper division level and outside of the student's major.

Before transferring to OU, have the RSC Registrar send an official transcript to the OU Admissions Office with any degrees earned noted on the transcript. If you have not completed the requirements for an Associate's degree, talk with your OU Academic Advisor about Reverse Transfer options to use OU coursework to complete your RSC Associate's degree.

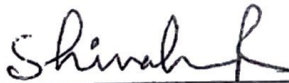
Transfer Agreement
Between
Rose State College
And
University of Oklahoma,
Gallogly College of Engineering

Effective Academic Year: 2022-2023

Engineering Associate in Science Degree, Data Science & Analytics Option

And

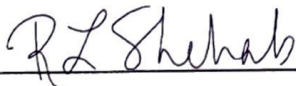
Bachelor of Science in Industrial and Systems Engineering



Dr. Shivakumar Raman
Director
School of Industrial and Systems Engineering
Gallogly College of Engineering



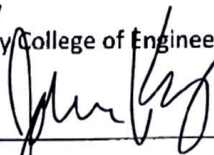
Steven Fowler
Engineering Coordinator
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Dr. Randa Shehab
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Dr. Ryan Stoddard
Dean
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Isabelle Billen
Vice President
Academic Affairs
Rose State College