

REQUIREMENTS FOR THE BACHELOR OF SCIENCE

GALLOGLY COLLEGE OF ENGINEERING

THE UNIVERSITY OF OKLAHOMA

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2026 through Spring 2027

General Requirements	
Minimum Total Credit Hours	120
Minimum Upper-Division Hours	40
Minimum Retention/Graduation Grade Point Averages:	
Overall - Combined and OU	2.00
Major - Combined and OU	2.00
Curriculum - Combined and OU	2.00

Program
Artificial Intelligence Engineering
B074
Bachelor of Science

OU encourages students to complete at least 30 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

GENERAL EDUCATION AND COLLEGE REQUIREMENTS

Courses designated as Core I, II, III, IV, or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least one upper-division Gen. Ed. course outside of the student's major. **Courses graded P/NP will not apply.**

A grade of C or better is required in each course in the curriculum, including all prerequisite courses.

MINIMUM OF 40 HOURS REQUIRED FOR UNIVERSITY-WIDE GENERAL EDUCATION

Code	Title	Credit Hours
Core Area I: Symbolic and Oral Communication		
<i>English Composition</i>		
ENGL 1113	Composition I	3
ENGL 1213	Composition II	3
or EXPO 1213	Expository Writing	
<i>Language (0-10 hours in the same language)</i>		
This requirement can be met by two years of the same language in high school:		0-10
Beginning Course (0-5 hours)		
Beginning Course, continued (0-5 hours)		
<i>Mathematics</i>		
MATH 1823	Calculus and Analytic Geometry I ^{1, 2}	3
Core Area II: Natural Science (including one laboratory)		
PHYS 2514	General Physics for Engineering and Science Majors (Core II) ²	4
Natural Science Elective with Lab ³		4
Core Area III: Social Science		
P SC 1113	American Federal Government	3
Choose one course ⁴		3
Core Area IV: Arts & Humanities		
<i>Artistic Forms</i>		
Choose one course ⁴		3
<i>Western Culture</i>		
HIST 1483	United States to 1865	3
or HIST 1493	United States, 1865 to the Present	
Choose one course (excluding HIST 1483 and HIST 1493) ⁴		3
<i>World Culture</i>		
Choose one course ⁴		3
Core Area V: First-Year Experience		
ENGR 1413	Pathways to Engineering Thinking ^{2, 5}	3
Total Credit Hours		38-48

- MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.
- Major support requirements that also satisfy University General Education requirements.
- Courses taken to fulfill the Natural Science courses must be chosen from a University-Wide General Education Approved Course List (Core II). At least one of the Natural Science Courses must be a non-Physics course. All Science courses must be for science or engineering majors and come from the natural science list maintained by the department.
- To be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000). See list in the Class Schedule.
- Transfer students will need to meet the requirements of the first-year experience course as well as the engineering transfer course. Please see your advisor for your specific enrollment requirements.

FREE ELECTIVES

Electives to bring total applicable hours to the minimum total required for the degree including a minimum of 40 upper-division hours.

Bachelor of Science in Artificial Intelligence Engineering accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and Similarly Named Engineering Programs Program Criteria.

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a **grade of C** or better is required in each course in the curriculum, including all prerequisite courses.

MAJOR REQUIREMENTS

Code	Title	Credit Hours
Required Courses		
DSAI 1421	Introduction to Artificial Intelligence Engineering	1
DSAI 3013	Machine Learning for Data Science	3
DSAI 2823	Discrete Mathematics for AI	3
DSAI 3023	Big Data Engineering	3
DSAI 3123	Machine Learning Operations and Model Management	3
DSAI 4003	Applied Data Science	3
DSAI 3203	Scientific Machine Learning	3
DSAI 3333	Data Visualization	3
DSAI 4603	Deep Learning	3
DSAI 4323	Ethics and Compliance of AI	3
ISE 4623	Deterministic Systems Models	3
DSAI 4613	Generative AI	3
DSAI 4014	AI Capstone Project	4
DSAI 5113	Advanced Analytics and Metaheuristics	3
DSAI 4523	Reinforcement Learning	3
DSAI Electives		
Choose 6 three-hour approved DSAI electives ¹		18
Total Credit Hours		62

- ¹ To be chosen from an approved list of DSAI electives available in the DSAI office and/or website.

MAJOR SUPPORT REQUIREMENTS

Code	Title	Credit Hours
Math and Science		
MATH 2423	Calculus and Analytic Geometry II	3
MATH 2433	Calculus and Analytic Geometry III	3
MATH 2443	Calculus and Analytic Geometry IV	3
MATH 3333	Linear Algebra	3
ISE 3293	Applied Engineering Statistics	3
Additional College Requirements		
ENGR 2002	Professional Responsibilities and Skills of Engineers and Scientists	2
C S 1323	Introduction to Computer Programming for Programmers	3
Total Credit Hours		20

More information in the catalog: (<http://ou-public.courseleaf.com/gallogly-engineering/program-data-science-analytics/artificial-intelligence-engineering-bachelor-science/>).

SUGGESTED SEMESTER PLAN OF STUDY

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113	Composition I (CORE I)	3	ENGL 1213 or EXPO 1213	Composition II (Core I) or Expository Writing	3
	ENGR 1413	Pathways to Engineering Thinking (CORE V)	3	PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
	MATH 1823	Calculus and Analytic Geometry I (CORE I)	3	MATH 2423	Calculus and Analytic Geometry II (CORE I)	3
	HIST 1483 or HIST 1493	United States to 1865 (CORE IV) or United States, 1865 to the Present	3	C S 1323	Introduction to Computer Programming for Programmers	3
	P SC 1113	American Federal Government (CORE III)	3	DSAI 1421	Introduction to Artificial Intelligence Engineering	1
	CREDIT HOURS		15	CREDIT HOURS		14
SOPHOMORE	ENGR 2002	Professional Responsibilities and Skills of Engineers and Scientists	2	MATH 2443	Calculus and Analytic Geometry IV	3
	DSAI 3013	Machine Learning for Data Science	3	DSAI 3023	Big Data Engineering	3
	MATH 2433	Calculus and Analytic Geometry III	3	MATH 3333	Linear Algebra	3
	DSAI 2823	Discrete Mathematics for AI	3		Approved Elective, Social Science ²	3
		Approved Elective, Natural Science with lab ¹	4		Approved Elective, Western Culture ²	3
	CREDIT HOURS		15	CREDIT HOURS		15
JUNIOR	DSAI 3123	Machine Learning Operations and Model Management	3	DSAI 4003	Applied Data Science	3
	ISE 3293	Applied Engineering Statistics ²	3	DSAI 3203	Scientific Machine Learning	3
		Approved Elective, World Culture ²	3	DSAI 3333	Data Visualization	3
		DSAI Approved Engineering Electives ³	6		Approved Elective, Artistic Forms ²	3
					DSAI Approved Engineering Elective ³	3
	CREDIT HOURS		15	CREDIT HOURS		15
SENIOR	DSAI 4603	Deep Learning	3	DSAI 4014	AI Capstone Project	4
	DSAI 4323	Ethics and Compliance of AI	3	DSAI 4613	Generative AI	3
	ISE 4623	Deterministic Systems Models	3	DSAI 5113	Advanced Analytics and Metaheuristics	3
		DSAI Approved Engineering Electives ³	6	DSAI 4523	Reinforcement Learning	3
					DSAI Approved Engineering Elective ³	3
	CREDIT HOURS		15	CREDIT HOURS		16

¹ Courses taken to fulfill the Natural Science requirement must be chosen from the University-Wide General Education Approved Course List (Core II). At least one of the Natural Science Courses must be a non-Physics course. All science courses must be for science or engineering majors and come from the natural science elective list maintained by the department.

² To be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000). See list in the Class Schedule.

³ To be chosen from an approved list of DSAI electives available in the DSAI office.

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