



TAYLOR
UNIVERSITY

BS in Artificial Intelligence and Machine Learning – 2026-2027

Student Name: _____

Student ID: _____

Core Requirements

- ____ COS 103 1 Computer Science and Engineering: New Majors Orientation
- ____ COS 109 3 Computer and Network Operations
- ____ COS 120 4 Introduction to Computational Problem Solving
- ____ COS 121 4 Foundations of Computer Science
- ____ COS 143 3 Interactive Webpage Development
- ____ COS 232 3 Computer and Network Security I
- ____ COS 243 3 Multi-tier Web Application Development
- ____ COS 265 4 Data Structures and Algorithms
- ____ COS 491 1 Computer Science Senior Capstone
- ____ MAT 151 4 Calculus I
- ____ MAT 210 4 Introductory Statistics

Select one course from the following:

- ____ COS 311 3 Ethics in Computer Science
- ____ COS 321H 3 Ethics and Technology

Major Requirements

- ____ COS 280 3 Introduction to Artificial Intelligence
- ____ COS 284 3 Introduction to Computer Systems
- ____ COS 320 3 Algorithm Design
- ____ COS 326 3 Data Visualization
- ____ COS 343 3 Database Systems
- ____ COS 345 3 Computational Linear Algebra
- ____ COS 436 3 Parallel and Distributed Computing
- ____ COS 452 3 Research I
- ____ COS 453 3 Research II
- ____ MAT 311 3 Introduction to Data Science
- ____ MAT 382 3 Advanced Statistical Methods
- ____ SYS 411 4 Machine Learning I
- ____ SYS 412 4 Machine Learning II
- ____ SYS 413 3 Foundation Models and Generative AI

Select two courses from the following:

- ____ COS 351 3 Computer Vision
- ____ COS 380 3 Natural Language Processing
- ____ SYS 352 3 Knowledge Based Systems

Select one course from the following:

- ____ MAT 215 3 Discrete Mathematics for Computer Science
- ____ MAT 255 3 Justifications in Mathematics

Total Major Hours Required: 90

____ Attendance at 21 Computer Science and Engineering sanctioned events is required.

Note: Courses used to meet a core requirement may not double count as an elective

Degree Requirements

- 128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).
- Fifty percent of the minimum hours must be completed at Taylor—64 hours.
- Fifty percent of the major/minor hours must be completed at Taylor.
- 22 of the last 30 hours earned must be completed at Taylor.
- Cumulative GPA of 2.0; major GPA of 2.3 (higher GPA may be required in certain curricula). (See current catalog for policy).
- All foundational core, major, minor, and proficiency requirements must be completed (including Senior Comprehensive Exam/Paper/Project).
- Two years of one foreign language is required for the BA degree.
- Candidates for 2 degrees must complete a minimum of 158 semester hours and meet all requirements for 2 different majors.