ROGERS STATE UNIVERSITY
B.S. Information Technology – Artificial Intelligence

Catalog Year	Department	Major Code	Required Hours
2025-2026	**Technology & Justice Studies**	**BTAI**	**123**

GENERAL EDUCATION REQUIREMENTS (44 Credit Hours)		
Code	**Title**	**Credit Hours**
First Year Experience: 2 Credit Hours		
UNIV 1152	The University Experience	2
Communications: 9 Credit Hours		
ENGL 1113	Composition I	3
ENGL 1213	Composition II	3
SPCH 1113	Speech Communication	3
Social and Behavioral Sciences: 9 Credit Hours		
HIST 2483	American History to 1877	3
or HIST 2493	American History Since 1877	
POLS 1113	American Federal Government	3
Choose one course from the social science general education list - *PSY 1113 Introduction to Psychology Recommended*		3
Science and Mathematics: 12 Credit Hours		
BIOL XXX3	Biological Science w/Lab	4
PHYS XXX3	Physical Science w/Lab	4
MATH 1513 (or Higher)	College Algebra	3
Humanities: 6 Credit Hours		
Choose two courses from the Humanities General Education list - *ART 1113 Art Appreciation & HUM 2893 Cinema Recommended*		6
Global Studies: 3 Credit Hours		
Choose one course from the Global Studies General Education list - *MGMT 3013 Conflict Resolution Recommended*		3
Elective: 3 Credit Hours		
Analytical Geometry and Calculus I		3
All Major Requirements must be completed with grade a C or higher		
Mathematics for AI (3 Hours)		
MATH 1613	Trigonometry	3
MAJOR REQUIREMENTS (77 Credit Hours)		
Code	**Title**	**Credit Hours**
Program Core (35 Hours)		
CS 1113	Microcomputer Applications	3
CS 1213	Introduction to Computing	3
CS 2223	Programming I	3
CS 2323	Programming II	3
CS 3223	Data Modeling	3

CS 3413	Systems Analysis	3
CS 3623	Human-Computer Interface Development	3
IT 1411	Orientation to Computer Technology	1
IT 2143	Introduction to Networking	3
IT 2153	Network Operating Systems I	3
IT 3723	Computer Architecture	3
IT 4504	Practicum and Capstone	4
Artificial Intelligence Option (42 Hours)		
CS 3363	Data Structures	3
CS 3303	Python Programming	3
CS 3423	Software Engineering	3
CS 1323	Introduction to Artificial Intelligence	3
CS 2513	Formal Languages and Automata	3
CS 2643	AI Ethics and Society	3
CS 3523	Artificial Intelligence	3
CS 3643	Machine Learning Fundamentals	3
CS 3663	Information Retrieval and Analysis	3
CS 3753	Data Mining and Analytics	3
CS 3863	Natural Language Processing (NLP)	3
CS 4643	Deep Learning	3
CS 4753	Computer Vision	3
CS 4823	Special Problems in Natural Language Processing	3

ROGERS STATE UNIVERSITY
B.S. Information Technology – Artificial Intelligence

Plan of Study

	FIRST SEMESTER			SECOND SEMESTER		
	Code	**Title**	**Hours**	**Code**	**Title**	**Hours**
FRESHMAN	UNIV 1152	The University Experience	2	MATH 1503	Mathematics for Critical Thinking	3
	ENGL 1113	Composition I	3	POLS 1113	American Federal Government	3
	IT 1411	Orientation to Computer TECH	1	CS 1323	Introduction to Artificial Intelligence	3
	MATH 1513	College Algebra	3	MATH 1613	Trigonometry	3
	CS 1213	Introduction to Computing	3	CS 2223	Programming I	3
	ART 1113	Art Appreciation	3			
		Credit Hours	**15**		**Credit Hours**	**15**
	THIRD SEMESTER			FOURTH SEMESTER		
SOPHOMORE	ENGL 1213	Composition II	3	BIOL XXX3	Biological Science w/Lab	4
	CS 2323	Programming II	3	CS 2513	Formal Languages and Automata	3
	CS 1113	Microcomputer Applications	3	HIST 24XX	American History Gen-Ed	3
	CS 3413	Systems Analysis (F)	3	CS 3003	Python Programming	3
	MATH 2264	Analytical Geometry and Calculus I	3	CS 3363	Data Structures	3
		Credit Hours	**15**		**Credit Hours**	**16**
	FIFTH SEMESTER			SIXTH SEMESTER		
JUNIORCSCS	IT 2143	Introduction to Networking	3	CS 3643	Machine Learning Fundamentals	3
	CS 3303	Software Engineering(F)	3	HUM 2893	Cinema	3
	CS 3223	Data Modeling (F)	3	CS 3753	Data Mining and Analytics	3
	CS 2643	Artificial Intelligence Ethics and Society	3	PHYS XXX4	Physical Science w/Lab	4
	CS 3523	Artificial Intelligence	3	IT 2153	Network Operating Systems I	3
		Credit Hours	**15**		**Credit Hours**	**16**
	SEVENTH SEMESTER			EIGHTH SEMESTER		
SENIOR	CS 3863	Natural Language Processing	3	CS 3623	Human Computer Interface – Development (S)	3
	CS 4753	Computer Vision	3	CS 3663	Information Retrieval and Analysis	3
	IT 3723	Computer Architecture	3	CS 4643	Deep Learning	3
	IT 4504	Practicum & Capstone	4	CS 4823	Special Problems in Natural Language Processing	3
	PSY 1113	INTRO to Psychology	3			
		Credit Hours	**16**		**Credit Hours**	**12**

"F" Denotes Fall Semester Only
"S" Denotes Spring Semester Only

CS 1213 - Introduction to Computing is a prerequisite for CS 2223
Math 1513 – College Algebra is a prerequisite for CS 1323
CS 2223 - Programming I is a prerequisite for CS 3223, CS 3413, & CS 3623
CS 2323 - Programming II is a prerequisite for CS 3333, CS 3363, & CS 3733
MATH 2264 - Analytical Geometry and Calculus I is a prerequisite for CS 2513
CS 1323 – Introduction to Artificial Intelligence is a prerequisite for CS 2643
CS 3003 Python Programming is a prerequisite for CS 3523 & CS 3663
CS 3413 System Analysis is a prerequisite for CS 3423
CS 3523 Artificial Intelligence is a prerequisite for CS 3643 & CS 3863
CS 3223 Data Modeling is a prerequisite for CS 3753
CS 3753 Data Mining and Analytics is a prerequisite for CS 3863
CS 3643 Machine Learning Fundamentals is a prerequisite for CS 4643 & CS 4753
CS 3863 Natural Language Processing is a prerequisite for CS 4823

Contact Information
Department Head – Assistant Professor, R. Curtis Sparling, Herrington Hall, Room 108, 918.343.7722, rsparling@rsu.edu

Advising – success@rsu.edu