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

Catalog Year	Department	Major Code	Required Hours						
2025-2026	Technology & Justice	BTAI	123						
	Studies								
GENERAL EDUCATION REQUIREMENTS (44 Credit Hours)									
CodeTitleCredit HoursFirst Year Experience: 2 Credit Hours									
UNIV 1152	The University Exp	perience	2						
Communications: 9 Credit H			2						
ENGL 1113	Composition I		3						
ENGL 1213	Composition II		3						
SPCH 1113	Speech Communi	cation	3						
Social and Behavioral Scien	nces: 9 Credit Hours								
HIST 2483	American History	to 1877	3						
or HIST 2493	American History								
POLS 1113	American Federal	3							
Choose one course from the	ion to 3								
Psychology Recommended									
Science and Mathematics:									
BIOL XXX3	Biological Science	-	4						
PHYS XXX3	Physical Science w	v/Lab	4						
MATH 1513 (or Higher) Humanities: 6 Credit Hours	College Algebra		3						
	ne Humanities General Educa	tion list APT 1112 Art	6						
Appreciation & HUM 2893 (tion list - ART 1113 Art	0						
Global Studies: 3 Credit Ho									
		cation list - MGMT 3013 Confi	lict 3						
Resolution Recommended			5						
Elective: 3 Credit Hours									
Analytical Geometry and Ca	Ilculus I		3						
	ist be completed with grade	a C or higher							
Mathematics for AI (3 Hours									
MATH 1613	Trigonometry		3						
		NTS (77 Credit Hours)							
Code	Title		Credit Hours						
Program Core (35 Hours)									
CS 1113	Microcomputer Application	5	3						
CS 1213	Introduction to Computing	3							
CS 2223	Programming I		3						
CS 2323	Programming II	3							
65 2325			5						

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				

Plan of Study

	FIRST SEMESTER				SECOND SEMESTER		
FRESHMAN	Code	Title	Hours	Code	Title	Hours	
	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	
3E9	MATH 1513	College Algebra	3	MATH 1613	Trigonometry	3	
FF	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		
LL I	ENGL 1213	Composition II	3	BIOL XXX3	Biological Science w/Lab	4	
JR.	CS 2323	Programming II	3	CS 2513	Formal Languages and Automata	3	
SOPHOMORE	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	3	CS 3363	Data Structures	3	
		Calculus I			• • • • • • • • • •	10	
		Credit Hours	15		Credit Hours	16	
	17.24.42	FIFTH SEMESTER	2	66.2642	SIXTH SEMESTER	2	
	IT 2143	Introduction to Networking	3	CS 3643	Machine Learning Fundamentals	3	
S	CS 3303	Software Engineering(F)	3	HUM 2893	Cinema	3	
IUNIORCSCS	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	
IUN	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	3 CS 3623	Human Computer Interface – Development (S)	3	
	CS 4753	Computer Vision	3	3 CS 3663	Information Retrieval and Analysis	3	
	IT 3723	Computer Architecture	3	3 CS 4643	Deep Learning	3	
	IT 4504	Practicum & Capstone	2	CS 4823	Special Problems in Natural Language Processing	3	
	PSY 1113	INTRO to Psychology	3	3			
		Credit Hours	10	5	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

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