

Bachelor of Science (B.S.)
Artificial Intelligence:
Human-Centered Applied AI Emphasis
Honors College: MTH 124 Start

2026 – 2027
Catalog Year

1st Year					
Fall		Winter		Summer	
MTH 124: Precalculus	5	AI 201: Introduction to Artificial Intelligence	3		
AI 102: AI: Climate and Environment	3	CIS 162: Computer Science 1	4		
CIS 100: Computing Exploration Seminar	1	or CIS 160: Learn to Code in Python			
HNR 151: Interdisciplinary Sequence 1	3	HNR 153: Interdisciplinary Sequence 3	3		
HNR 152: Interdisciplinary Sequence 2	3	HNR 154: Interdisciplinary Sequence 4	3		
Total	15	Total	13		
2nd Year					
Fall		Winter		Summer	
MTH 204: Linear Algebra 1	3	STA 215: Intro to Statistics	3		
HCC 201: Intro to Human Centered Computing	3	CIS 298: Applied Computing Studio I	3		
PHI 102: Ethics	3	AI 411: AI Ethics and Bias	3		
or PHI 204: Knowledge, Politics, and Social Media		COM 201: Speech	3		
CIS 290: Prof Responsibilities & Practices	3	HNR Elective: HNR 250 or 351	3		
General Education	3				
Total	15	Total	15		
3rd Year					
Fall		Winter		Summer	
CYB 420: Trustworthy AI	3	AI 402: Generative Artificial Intelligence	3		
AI Track Course	3	CIS 360: Information Management and Sciences	3		
CIS 320: Visualization of Data and Info		CIS 398: Applied Computing Studio II	3		
WRT 350: Business Communications (SWS)	3	CIS 331: Data Analysis Tools	3		
HNR 251: Project-based Learning	3	or CIS 335: Data Mining			
Free Elective	3	HNR 300: Campus/Community Engagement	3		
Total	15	Total	15	Total	2-5
4th Year					
Fall		Winter		Summer	
AI 488: Introduction to AI and Healthcare	3	AI 495: Artificial Intelligence Senior Project	3		
HCC 431: Human AI Interaction	3	AI Track Course	3		
AI Track Course	3	AI Track Course	3		
HNR 350: Integrative Seminar	3	Free Elective	3		
Free Elective	3	Free Elective	3		
Total	15	Total	15		

- This is a suggested curriculum guide that might not be applicable to every student
- This suggested course sequence is intended as a general guide and may need to be adjusted based on course availability
- Student must have a **minimum of 120 credits** to graduate, with **58 of the 120 credits** being from a senior level institution and **18 of the last 30 credits** completed at GVSU

Honors Requirements	
HNR 151	HNR 152
HNR 153	HNR 154
HNR 300	HNR Elective: 250 or 351
HNR 251	HNR 350
HNR 401/499 (fulfilled via AI 495)	

Honors Notes:

The Frederik Meijer Honors College and the College of Computing have approved the following substitutions for the honors curriculum:

- 1) AI 495 fulfills the HNR 401 and HNR 499 requirements.
- 2) HNR 251 is fulfilled via CIS 378 for the AI Systems Emphasis ONLY*
*CIS 378 is NOT required for the Human Centered Applied AI Emphasis so students will need to take HNR 251

Major Notes:

- 1.) Students must select one track to complete. See below for options.
- 2.) CIS 490 can be taken as 2-5 credits. Students will work with the Computing Internship Coordinator to determine the best number of credits for them.
- 3.) Two Supplemental Writing Skills (SWS) courses are required for graduation.

Complete one of the following AI Tracks (4 courses, 12 credits):

Track: AI Deployment and Operations

Required:

AI 445: Machine Learning Operations

Choose 3 of the following:

AI 402: Generative Artificial Intelligence
AI 451: Reinforcement Learning
CIS 163: Computer Science II
CIS 350: Introduction to Software Engineering
CIS 360: Information Management and Science
CIS 418: Secure Software Engineering
SE 413: Software Testing
SE 422: Software Architecture and Design
SE 430: Software Construction and Delivery

Track: AI and Cybersecurity

Required:

CIS 258: Introduction to Cybersecurity

Choose 3 of the following:

CIS 337: Network Systems Management
CIS 358: Information Assurance
CIS 418: Secure Software Engineering
CIS 458: System Security
CYB 420: Trustworthy AI
CYB 453: Ethical Hacking

Track: Edge and Cloud AI

Required:

CIS 230: Hardware and Software
CIS 373: Pervasive Computing

Choose 2 of the following:

CIS 337: Network Systems Management
AI 445: Machine Learning Operations
CIS 458: System Security
SE 431: Software Virtualization

Track: AI and Business

Required:

CIS 331: Data Analysis Tools and Techniques **or** CIS 335: Data Mining

Choose 3 of the following:

ACC 201 **and** ACC 202: Accounting for Non-Business Majors 1 & 2
FIN 300: Fundamentals of Finance for Non-Business Majors
MGT 300: Fundamentals of Management for Non-Business Majors
MKT 300: Fundamentals of Marketing for Nonbusiness Majors

Track: AI and Healthcare

Required:

AI 489: Artificial Intelligence in Medical Imaging Informatics

Choose 3 of the following:

AHS 310: Equity in Health Care
AHS 321: Ethical and Legal Responsibilities in Health Care
AHS 330: Health Care- A Global Perspective
AHS 340: Health Care Management
AHS 352: Introduction to Holistic Health Care

Track: AI Design

Choose 4 of the following:

AI 489: Artificial Intelligence in Medical Imaging Informatics
HCC 304: Usability Design and Evaluation
HCC 311: User Experience Design
HCC 403: User Experience Design
HCC 452: AR/VR Design and Research