Computer Science Artificial Intelligence (AI) for Cybersecruity

MANCHESTER COMMUNITY COLLEGE

Why Computer Science Artificial Intelligence (AI) for Cybersecurity?

This Computer Science Artificial Intelligence (AI) for Cybersecurity degree program will allow you to prepare for three external Amazon Web Service (AWS) certification exams while earning an Associate of Science degree. The program begins with the origins and history of AI, machine learning and computer vision.

The focus of the program is on examining AI as it affects Cybersecurity, and teaching you the security implications of AI, Sas well as the benefits for cybersecurity investigations.

Degree & Certificate Options

This program offers the following Associate of Science degree:

- Computer Science Artificial Intelligence (AI) for Cybersecurity, (A.S.)

Program Goals

This program's goals are to present you with a personalized, student-centered learning experience focused on the impact of AI as it relates to cybersecurity. The program covers aspects of AI common to many current AI applications. This knowledge will allow you to leverage the program materials as a platform to successfully work in AI-related cybersecurity going forward.

Admission Requirements

Applicants for admission to the Computer Science Artificial Intelligence (AI) for Cybersecurity degree program must comply with general college admission requirements. You must also provide a High School transcript or participate in an interview with an MCC Admissions Counselor.

Most physical requirements necessary for this program can be accommodated with appropriate documentation.

Potential Jobs

- Artificial Intelligence (AI) Specialist
- Mobile App Developer
- Software Engineer
- IoT Developer

Potential Salary*

Computer Science remains one of the fastest growing fields, with a projected shortage of qualified job candidates for programmers, networkers, web designers and AI, XR or database professionals.

There is a wide range of jobs in the computer science and artificial intelligence industries. See below for the national average annual salary range for an ***Information Security Analyst.***

ENTRY LEVEL	MID-RANGE	EXPERIENCED
$88,072	$130,539	$186,388

**Career Coach 2024, mccnh.lightcastcc.com*

Transfer Opportunities

Students enrolled in this program can transfer to 4-year colleges and universities like:

- University of New Hampshire
- Plymouth State University
- Rivier University
- ...and many more!

"Studies have shown in just the first half of 2023, job listings that feature AI as a skillset have jumped tenfold, meaning these career paths will soon be broadly available."

Peter LaMonica, Computer Science, Dept. Chair

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Degree Requirements

Computer Science Artificial Intelligence (AI) For Cybersecurity

Degree Program - First Year

First Year	Fall Semester	TH	LAB	CR
CSI105M	Introduction to Computer Science	2	2	3
CIS110M	Microsoft® Computer Applications I	2	2	3
CSAI100M	Introduction to Artificial Intelligence (AI)	2	2	3
ENGL110XM or ENGL110M	College Composition I with Corequisite or College Composition I	4	0	4
FYE100M	MCC Essentials	1	0	1
	Apps Elective *(CIS107M or CIS108M)*	2	2	3
	Total	**13**	**8**	**17**
First Year	**Spring Semester**	**TH**	**LAB**	**CR**
CSI126M	Programming with Python	2	2	3
CSAI120M	Machine Learning	2	2	3
MATH155M	College Algebra with Trigonometry	4	0	4
	Physics Elective *(PHYS135M or PHYS210M)*	3	3	4
	Technical Elective *(excludes CIS110M)*	2	2	3
	Total	**13**	**9**	**17**

Degree Program - Second Year

Second Year	Fall Semester	TH	LAB	CR
CSAI130M	Natural Language Programming	3	3	4
CSAI240M	Artificial Intelligence for Computer Vision	3	3	4
MATH170M	Discrete Mathematics	4	0	4
MATH202M	Probability and Statistics	4	0	4
	Total	**14**	**6**	**16**
Second Year	**Spring Semester**	**TH**	**LAB**	**CR**
CIS291M	Capstone Senior Seminar	2	2	3
CSAI260M	Artificial Intelligence for Cybersecurity	3	3	4
	English Literature / Philosophy Elective - *(ENGL213M, ENGL214M or PHIL240M)*	3	0	3
	Social Science Elective - *(ANTH, ECON, GEOG, HIST, POLS, PSYC or SOCI)*	3	0	3
	Total	**11**	**5**	**13**
				Total Credits - 63

Some training in this program is affiliated with Amazon Web Service (AWS) Academy.

More information about this program program is available on our website: www.https://www.mccnh.edu/academics/programs/computer-science-artificial-intelligence-for-cybersecurity

aws academy

All courses and degree requirements are subject to change. For the most current information on MCC programs, **see mccnh.edu/programs**.