# Computer Science eXtended Reality (XR)

# LING COLLEGE



#### Why Computer Science eXtended Reality (XR)?

The focus of this degree program is eXtended Reality (XR), which includes Augmented Reality (AR), Virtual Reality (VR) and Mixed Reality (MR) as it affects business, education and our social lives. This program teaches you to create and manage environments in the XR world utilizing existing platforms. You will be trained to create assets to use in XR and to utilize XR workspaces for business.

#### **Degree & Certificate Options**

This program offers the following Associate of Science degree:

• Computer Science eXtended Reality (XR), (A.S.)

#### **Program Goals**

In the Computer Science eXtended Reality (XR) program you will be presented with a personalized, student-centered learning program focused on innovative XR workplace applications. The program's goal is to focus on emerging technologies and help you learn to utilize these platforms in new and exciting ways.

#### **Admission Requirements**

Applicants for admission to the Computer Science eXtended Reality (XR) degree program must comply with general college admission requirements and 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.* 

#### **Acquired Skills**

When you graduate from this program you will:

- Have a fundamental understanding of eXtended Reality concepts, skills and working environments.
- Be able to create and manage environments in the XR world by utilizing existing XR platforms.
- · Be able to design and create assets to use in XR platforms.
- Be able to utilize XR workspaces for business.

### **Potential Jobs**

- · eXtended Reality (XR) Application Specialist
- XR Immersive Experience Designer
- 3D Assist Creator
- XR UI/UX Designer
- · XR Instructor / Trainer

#### **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 available in the computer science and innovation industry. As an emerging technology, salary data for many eXtended Reality (XR) positions is not yet available. See below for the average annual salary range in NH for a *XR UI/UX Designer*.

ENTRY LEVEL	MID-RANGE	EXPERIENCED
\$70,000	\$85,000	\$130,000

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\*Bureau of Labor Statistics (NH) 2024

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## **Degree Requirements**

#### Computer Science eXtended Reality (XR)

**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
CISXR100M	Introduction to eXtended Reality (XR)	2	2	3
FYE100M	MCC Essentials	1	0	1
MATH155M	College Algebra with Trigonometry	4	0	4
	Apps Elective (CIS107M or CIS108M)	2	2	3
Total		13	8	17
First Year	Spring Semester	TH	LAB	CR
CISXR120M	XR Development	2	2	3
ENGL110XM or ENGL110X	College Composition I with Corequisite or College Composition I	4	0	4
	Programming Language Elective (CIS117M, CIS118M, CIS126M or CIS158M)	2	2	3
	Physics Elective (PHYS135M or PHYS210M)	3	3	4
	English Literature / Philosophy Elective - (Choose any English course or ENGL213M, ENGL214M or PHIL240M)	3	0	3
Total		14	7	17

#### **Degree Program - Second Year**

Second Year Fall Semester		TH	LAB	CR
CIS220M Object-Oriented Programming		2	2	3
CISXR210M The XR Metaverse		2	2	3
CSCN220M Entrepreneurship in Computer Science		3	3	4
MATH171M	Pre-Calculus	4	0	4
	CS Technical Elective (excludes CIS110M)	2	2	3
Total		13	9	17
Second Year Spring Semester		TH	LAB	CR
CIS210M Data Structures and Elementary Algorithms		3	3	4
CIS291M	Capstone Senior Seminar	2	2	3
MATH170M				
-	Discrete Mathematics	4	0	4
	Discrete Mathematics Social Science Elective - (ANTH, ECON, GEOG, HIST, POLS, PSYC or SOCI)	4	0	4
	Discrete Mathematics Social Science Elective - (ANTH, ECON, GEOG, HIST, POLS, PSYC or SOCI) Total	4 3 12	0 0 5	4 3 14

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.mccnh.edu/program/computerscience-xr-extended-reality/



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

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