



MASTER COURSE OUTLINE

A. CPRO 1485 Intro Virtual Reality & Augmented Reality

B. COURSE DESCRIPTION:

This course will introduce students to the Virtual Reality (VR) and Augmented Reality (AR) technologies. This course is project based. Students will create VR and AR applications.
(3 Cr – 3 lect, 0 lab)

C. **Core Theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- VR
- AR
- 3d modeling
- 360-degree video
- Application control
- Creation for Android and IOS
- VR Physics
- VR integration software
- Hand held mobile AR

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
<u>**Critical Thinking</u>	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	The student will successfully 1. determine whether the given problem would be best solved by VR or AR application.
<u>CS</u>	design and develop a Virtual Reality application.	1. code and design a VR application.
<u>CS</u>	design and develop a Augmented Reality application.	1. code and design an ARapplication.
<u>CS</u>	design a 3d scene.	1. create 3d objects and place them in the correct position to create a 360-degree environment.

F. SPECIAL INFORMATION:

This course will require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request. Software requirements: to be announced.

G. COURSE CODING INFORMATION: Course Code T/Class Maximum 30; Letter Grade

Revision date :

AASC Approval date: 5/8/18

*Riverland Community College Disciplines	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.

** These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.