

Virtual Reality Independent Study

Dr. Jeffery Paone

jpaone@mines.edu

280C Brown Hall

(303) 384-2587

1 Overview

Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here. Place the course description here.

Prerequisite: C or better in CSCI 262 Data Structures

Credit Hours: 3

Meeting Time: 1 Hour/Week TBD

1.1 Course Objectives

At the completion of this course, students will be able to:

- Learn the Rust programming Language
- Explore a variety of UI elements for VR
- Become familiar with VR tools and libraries
- Explore creation of VR UI elements
- Alpha test Boxflight
- Monitor Sam while he codes
-

2 Grading Policy

2.1 Grade Distribution

Project 1	10%
Project 2	10%
Project 3	10%
Project 4	10%
Final Project	20%
Project Proposal	5%
Milestone 1	5%
Milestone 2	5%
Milestone 3	5%
Final Code	15%
Final Presentation	10%
Final Report	15%

2.2 Letter Grade Distribution

90.00 - 100.0	A
80.00 - 89.99	B
70.00 - 79.99	C
60.00 - 69.99	C
00.00 - 59.99	C

2.3 Late Policy

A penalty of 10% will be assessed for every school day late a project is.

3 Project 1 — Rust Intro

Each student can choose a project from Data Structures and will implement it in Rust.

- Image Editor
- Mazes
- Evil Hangman
- Markov
- Tic-tac-toe states
- Animal

4 Project 2 — VR Intro

5 Project 3 — VR Independent Projects

6 Final Project

7 Final Report

8 Tentative Course Outline

The weekly coverage might change as it depends on the progress of the class. However, you must keep up with the reading assignments.

Week	Content
Week 1	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 2	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 3	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 4	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 5	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 6	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 7	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 8	<ul style="list-style-type: none">• Something interesting• Midterm Exam
Week 9	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 10	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 11	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 12	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 13	<ul style="list-style-type: none">• Something interesting• Reading assignment: Something interesting
Week 14	<ul style="list-style-type: none">• Something interesting• Reading assignment: Review for Final Exam