

**Total Hours per Week by Type of Activity**

Week	Start	End	Supervisor discussion	Team discussion	Design	Coding	Documentation	Testing, debugging	Research, training, learning	Other	Total hours for the week
1	1/26	2/1	0.0	0.0	0.0	0.0	5.8	0.0	4.0	7.1	16.9
2	2/2	2/8	0.0	0.0	0.0	0.5	8.8	0.0	6.7	0.0	16.0
3	2/9	2/15	2.0	0.0	0.0	0.0	5.0	0.0	16.3	0.0	23.3
4	2/16	2/22	0.0	0.0	0.0	15.1	2.5	0.0	6.5	0.0	24.1
5	2/23	3/1	0.0	0.0	4.5	5.7	4.0	0.0	1.5	1.0	16.7
6	3/2	3/8	0.0	0.0	0.5	0.0	2.5	0.0	12.7	0.5	16.2
7	3/9	3/15	0.0	0.0	0.0	0.0	0.5	0.0	25.6	1.0	27.1
8	3/16	3/22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	3/23	3/29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3/30	4/5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4/6	4/12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	4/13	4/19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	4/20	4/26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	4/27	5/3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	5/4	5/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	5/11	5/17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Semester Total</b>			<b>2.0</b>	<b>0.0</b>	<b>5.0</b>	<b>21.3</b>	<b>29.1</b>	<b>0.0</b>	<b>73.3</b>	<b>9.6</b>	<b>140.3</b>

## Activities Completed

Date	Start	End	Hours	Category	Description of completed task	Challenges and/or next steps	Reflection
Sun 1/26/25	4:00 PM	5:30 PM	1.5	Other	Reviewed course materials and communications on Blackboard & updated my calendar app with course calendar	Set up Fastmail so Blackboard notifications are not filtered as spam	
Sun 1/26/25	6:00 PM	9:00 PM	3.0	Other	Started filling out intake survey, preparing resume, and reviewing project proposal requirements	Finish intake survey and continue working on project proposal	
Mon 1/27/25	5:00 PM	7:05 PM	2.1	Other	Attended orientation & took quiz		
Wed 1/29/25	5:00 PM	7:00 PM	2.0	Documentation	Brainstormed ideas for project proposal. Talked to supervisor over text messages.	Design a project that meets course requirements & that I want to work on	Project needs to be complex enough, and ideally would solve a real-world need.
Wed 1/29/25	11:00 PM	11:30 PM	0.5	Documentation	Looked into timelog template and examples to determine what it needs to do		
Thu 1/30/25	12:30 AM	2:00 AM	1.5	Documentation	Adapted timelog template for my own needs		Added start and end times so it can calculate hours, and changed formatting.
Thu 1/30/25	3:30 AM	5:00 AM	1.5	Documentation	Filled out and submitted intake survey. Uploaded resume and saved as draft. Worked on project proposal.	Upload first timelog when it is done. Work on refining project proposal.	I have a supervisor but the project proposal is still very nebulous.
Thu 1/30/25	6:40 AM	8:40 AM	2.0	Research, training, learning	Research into project proposals and games that could be used as inspiration.		Could go back to ideas for projects I've been wanting to do going years back.
Fri 1/31/25			0.5	Other	Download and install Unity, Adobe CC, Maya, and other software that might be used for project.		
Fri 1/31/25	9:00 AM	11:00 AM	2.0	Research, training, learning	Research into game engines, physics, procedural generation, and other game-related topics	Pick a game engine & decide which area to focus on for differentiating this project from others	Orbital mechanics simulator suggested by ChatGPT seems like the best idea
Sat 2/1/25			0.3	Documentation	Write out reflections on time spent and submit time logs along with resume		
Wed 2/5/25	10:00 PM	11:59 PM	2.0	Research, training, learning	Researched terms and concepts used in project proposal survey		
Thu 2/6/25	12:01 AM	4:00 AM	4.0	Documentation	Updated project proposal & filled out related survey. Created GitHub Project issue tracker.		
Thu 2/6/25	5:30 AM	6:00 AM	0.5	Coding	Created & set up GitHub repo for the project		
Thu 2/6/25	6:00 AM	7:00 AM	1.0	Research, training, learning	Researched workflow & project management software involving Unity, Git, and Github	Go through Unity 3D tutorials	
Fri 2/7/25	1:50 PM	3:50 PM	2.0	Documentation	Further updated project proposal and survey		
Sat 2/8/25	12:01 AM	2:30 AM	2.5	Documentation	Completed and submitted project proposal and survey	Work out project schedule and scope	
Sat 2/8/25	11:20 AM	3:00 PM	3.7	Research, training, learning	Completed a Unity Beginning 3D Game Development tutorial	Continue with 3D tutorials	
Sat 2/8/25			0.3	Documentation	Worked on time logs and writing reflections		
Sun 2/9/25	12:01 AM	3:00 AM	3.0	Research, training, learning	Worked on another Unity 3D tutorial		
Mon 2/10/25	12:01 PM	2:00 PM	2.0	Supervisor discussion	Meeting with supervisor		
Wed 2/12/25	10:30 AM	11:30 AM	1.0	Research, training, learning	Research for Diagrams deliverables & GitHub Projects		
Wed 2/12/25	12:01 PM	2:00 PM	2.0	Documentation	Work on Diagrams slide deck		

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Wed 2/12/25	2:00 PM	4:00 PM	2.0	Research, training, learning	Work through Unity 3D tutorials		
Thu 2/13/25	12:15 AM	1:30 AM	1.3	Research, training, learning	Work through Unity 3D tutorials	Tutorials are too basic or have irrelevant info for my project.	Will probably have to figure it out on my own with Google searches.
Thu 2/13/25	3:15 PM	4:45 PM	1.5	Documentation	Work on diagrams	Start sketching out UI next	
Fri 2/14/25	7:00 AM	8:00 AM	1.0	Documentation	Submit project tools survey. Create changelog and readme docs.		
Fri 2/14/25	10:30 AM	3:30 PM	5.0	Research, training, learning	Work through Unity Essentials tutorials		
Sat 2/15/25	7:00 AM	11:00 AM	4.0	Research, training, learning	Work through Unity Essentials tutorials		
Sat 2/15/25			0.5	Documentation	Update and reformat timelogs. Write reflections.		
Tue 2/18/25	1:50 PM	2:50 PM	1.0	Research, training, learning	Research on how to do various things in Unity, such Git LFS usage, floating origin, 64-bit precision, and custom models		
Wed 2/19/25	3:45 AM	5:30 AM	1.8	Coding	Create new project in Unity, set it up for Git, and check in to repo	Had to configure GitHub Desktop on Windows for long filenames & CRLF conversion	After doing some research, I think it would be better to use URP instead of HDRP, and to consistently use LF for line endings even on Windows.
Wed 2/19/25	8:30 AM	1:00 PM	4.5	Coding	Work on creating a solar system in Unity project. Convert to URP & set line endings to be LF. Delete old repo and start afresh with a new repo in order to stay within LFS limits.	Challenges: Solar system distances with 32-bit floats in Unity engine; Understanding how Git LFS works	Due to configuration issues, many large files were checked in to git. To undo this mistake, the old repo was deleted and a new one created in its place.
Wed 2/19/25			1.0	Documentation	Migrate issues to new project and add more tasks to do. Take screenshots of GitHub repo and project for slide deck.	Challenge was understanding how GitHub Projects work.	I created a new project in GitHub but I didn't need to. Now the URL needs to be updated.
Wed 2/19/25	9:00 PM	10:30 PM	1.5	Research, training, learning	Research how to add 2D and UI elements to a 3D scene	Challenges: finding the best practices for adding UI elements. I can think of many ways to do this, but what is the best way?	
Thu 2/20/25	12:30 PM	4:00 PM	3.5	Research, training, learning	Research orbital mechanics, Keplerian elements, and planetary data.	I found several sources of data with varying levels of precision and slightly different values. Challenge is deciding which to use and what level of precision is needed.	
Thu 2/20/25	9:00 PM	11:30 PM	2.5	Coding	Work on rendering orbit lines & camera control.	Challenge: getting used to how Unity scripting works	
Fri 2/21/25	2:15 PM	5:45 PM	3.5	Coding	Work on camera controls		
Fri 2/21/25	9:30 PM	10:00 PM	0.5	Research, training, learning	Research coordinate systems		Tricky part is when I need to apply rotations in 3d space so that the orbits have the proper shape and inclination
Fri 2/21/25	10:00 PM	10:30 PM	0.5	Documentation	Manage items in issue tracker		
Sat 2/22/25	10:00 AM	11:00 AM	1.0	Coding	Work on ability to change the camera's target		Half of coding time is looking up how to do things and could be categorized as research.
Sat 2/22/25	3:00 PM	4:45 PM	1.8	Coding	More work on camera control	Next steps: work on UI	

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Sat 2/22/25			1.0	Documentation	Managing issues and recording time spent on tasks. Update diagrams slide deck & timelog.		Managing the project takes time away from research and coding, but it does help in prioritizing tasks and keeping on track towards a goal.
Tue 2/25/25	6:30 PM	9:00 PM	2.5	Design	Brainstormed concepts for UI and made paper sketches		UI will evolve as feature set is developed
Wed 2/26/25			0.5	Other	Scheduled live presentation and reviewed what I need for it		
Thu 2/27/25	12:30 PM	2:30 PM	2.0	Design	Updated and fleshed out design for MVP.	Did not find any good free assets for spaceship, so I'll create my own in Maya.	I have a Google Doc where I write down my thoughts on the project as they come to me which helps me plan what I want to do next.
Thu 2/27/25			1.0	Documentation	Updated issue tracker. Reviewed what needs to be done and planned out what I want to work on next.	Reserve a few hours to create the demo video	
Thu 2/27/25	8:15 PM	9:45 PM	1.5	Research, training, learning	Researched best practices for creating UI in Unity, comparing Unity UI vs. newer UI Toolkit.		
Thu 2/27/25			0.5	Other	Rescheduled live presentation and reviewed its requirements again.	It's really confusing that there are two instructors with two different pages for scheduling this	
Thu 2/27/25	9:45 PM	11:59 PM	2.2	Coding	Added basic UI to show camera position parameters.	Work on icons to represent planets when distance is far	
Fri 2/28/25	12:01 AM	1:30 AM	1.5	Coding	Added icons that show planet position when camera distance is too far to show planet itself		
Fri 2/28/25	2:00 PM	4:00 PM	2.0	Coding	Updated planet icons including its script and color coding. Reorganized GameObject hierarchy. Added orbits and icons for outer planets.		
Fri 2/28/25			0.5	Documentation	Created spreadsheet to keep track of color coding of planets and decided on more colors		
Fri 2/28/25	5:15 PM	7:15 PM	2.0	Documentation	Created video showing project progress.		
Sat 3/1/25			0.5	Documentation	Updated timelogs and submitted them along with demo video		
Mon 3/3/25	4:45 PM	5:15 PM	0.5	Other	Reviewed next steps and next deliverables. Checked that this week's deliverables have been submitted.		
Wed 3/5/25	2:30 AM	3:30 AM	1.0	Documentation	Updated issue tracker and project journal. Researched space news.		With space activity focused on going to the Moon, maybe my project should focus on Earth-to-Moon missions?
Fri 3/7/25	1:00 AM	2:00 AM	1.0	Documentation	Updated project journal with potential project direction.		Need to have more concrete goals and plans for the project to proceed further
Fri 3/7/25	2:15 PM	2:45 PM	0.5	Design	Sketched a new screen flow diagram.		
Fri 3/7/25	2:45 PM	6:45 PM	4.0	Research, training, learning	Completed Unity tutorial on UI Components and Welcome to Creative Core Pathway. Researched Intuitive Machines lander.		I'm finding myself stuck in Unity because I don't know how create what I envision in my sketches
Fri 3/7/25	6:45 PM	9:15 PM	2.5	Research, training, learning	Completed Unity tutorials in Creative Core Pathway up to Copyrights.		
Fri 3/7/25	10:15 PM	11:59 PM	1.7	Research, training, learning	Completed up to "Critical Evaluation" tutorial in Unity Creative Core.		

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Sat 3/8/25	2:45 AM	3:45 AM	1.0	Research, training, learning	Completed first section of "Shaders & Materials" tutorial in Unity Creative Core.		
Sat 3/8/25	7:15 AM	9:15 AM	2.0	Research, training, learning	Completed "Map materials with textures" tutorial in Unity Creative Core.		
Sat 3/8/25	8:30 PM	10:00 PM	1.5	Research, training, learning	Completed "Bump mapping" tutorial in Unity Creative Core.	Challenge: getting a long block of uninterrupted time to work on project	
Sat 3/8/25			0.5	Documentation	Updated timelogs		
Sun 3/9/25	12:01 AM	2:00 AM	2.0	Research, training, learning	Completed "more texture mapping" tutorial in Unity Creative Core.		
Sun 3/9/25	4:30 AM	6:00 AM	1.5	Research, training, learning	Completed "Shader Graph" tutorial in Unity Creative Core.		
Sun 3/9/25	10:45 AM	12:45 PM	2.0	Research, training, learning	Completed "still life" tutorial in Unity Creative Core.		
Sun 3/9/25	8:00 PM	9:30 PM	1.5	Research, training, learning	Completed all sections of "Shaders & Materials" tutorial in Unity Creative Core.		
Mon 3/10/25	1:00 AM	1:30 AM	0.5	Research, training, learning	Completed "Get started with lighting" tutorial in Unity Creative Core.		
Mon 3/10/25	6:00 AM	8:15 AM	2.3	Research, training, learning	Completed tutorials up to "Configure shadows in your scene" in Unity Creative Core.		The section on lighting is much longer than the one for shaders and materials
Mon 3/10/25	2:30 PM	3:30 PM	1.0	Research, training, learning	Completed "Bake a lightmap" tutorial in Unity Creative Core.		
Mon 3/10/25	9:00 PM	9:45 PM	0.8	Research, training, learning	Completed "Light probes" tutorial in Unity Creative Core.		
Tue 3/11/25	3:00 AM	6:30 AM	3.5	Research, training, learning	Completed tutorials up to "Improve reflections" in Unity Creative Core.		
Wed 3/12/25	3:30 AM	5:00 AM	1.5	Research, training, learning	Completed tutorials in "Creative Core: Lighting"		
Thu 3/13/25	12:30 AM	1:30 AM	1.0	Research, training, learning	Worked on lighting on guided project in Unity & completed lighting quiz		
Thu 3/13/25	5:30 AM	7:30 AM	2.0	Research, training, learning	Completed first 3 sections of Animation tutorial in Unity Creative Core		
Thu 3/13/25	9:30 AM	10:30 AM	1.0	Research, training, learning	Completed next 2 sections of Animation tutorial in Unity Creative Core		
Thu 3/13/25	1:30 PM	2:00 PM	0.5	Other	Prepared for live presentation		
Thu 3/13/25	2:00 PM	2:30 PM	0.5	Other	Gave live presentation over Zoom to instructors		
Fri 3/14/25	5:45 AM	7:45 AM	2.0	Research, training, learning	Completed last 2 sections and quiz of Animation tutorial in Unity Creative Core		
Fri 3/14/25	11:30 AM	12:30 PM	1.0	Research, training, learning	Completed first 3 sections of VFX tutorial in Unity Creative Core		
Sat 3/15/25	8:30 AM	10:30 AM	2.0	Research, training, learning	Completed last 4 sections and quiz of VFX tutorial in Unity Creative Core		
Sat 3/15/25			0.5	Documentation	Updated timelogs & submitted supervisor interim report		