

COURSE OUTLINE		
TERM: Fall 2027	COURSE NO: DIGI 230	
INSTRUCTOR:	COURSE TITLE: 3D Animation III	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS: 4.5
OFFICE HOURS:		
COURSE WEBSITE:		

Capilano University is named after Chief Joe Capilano (1854–1910), an important leader of the Sk̓w̓x̓w̓ú7mesh (Squamish) Nation of the Coast Salish Peoples. We respectfully acknowledge that our campuses are located on the unceded territories of the səliłwətał (Tseil-Waututh), shíshálh (Sechelt), Sk̓w̓x̓w̓ú7mesh (Squamish), and xʷməθkʷəy̓əm (Musqueam) Nations.

COURSE FORMAT

6 lecture hours per week for 15 weeks.

COURSE PREREQUISITES

DIGI 140

CALENDAR DESCRIPTION

This course will refine a student's acting, posing and animation appeal to bring entertaining characters to life. Students will learn to define the subtle nuances of character animation while managing scenes with increased complexity and detail. Students will gain valuable experience animating physically realistic creatures in motion.

REQUIRED TEXTS AND/OR RESOURCES

Williams, Richard. *The Animator's Survival Kit*. 2nd ed. Faber & Faber, 2012. Print.

Recommended Texts and Materials

Johnson, Ollie and Frank Thomas. *The Illusion of Life: Disney Animation*. Disney Editions, 1995. Print.

A cell phone, iPod or camera capable of recording video footage for reference. A mirror and stopwatch.

COURSE STUDENT LEARNING OUTCOMES

On successful completion of this course, students will be able to do the following:

- Analyze and animate the physical motion of quadruped creatures;
- Apply a professional level of polish to animated scenes;
- Integrate motion capture technology in the creation of animated scenes;

- Develop approaches to adding dynamic simulations to animated scenes;
- Use animation skills and techniques creatively and efficiently in a production setting;
- Complete an animation portfolio showcasing their advanced animation abilities.

COURSE CONTENT

This content will be delivered in the form of lectures, screenings and in class exercises as well as assignments. All course materials will be on elearn and the content will be delivered in-person.

WEEK	TOPICS	READINGS and ACTIVITIES
Week 1	Character animation <ul style="list-style-type: none"> • Welcome back • Walk Cycle with personality (exercise) 	
Week 2	<ul style="list-style-type: none"> • Review Walk Cycle Exercises • Animation Process... Discussion on pre-visualizing the final animation through thumbnails and key poses. 	Assignment 1 – Run, Jump, Climb Advanced Body Mechanics , due week 4
Week 3	<ul style="list-style-type: none"> • Review Assignment 1 • Workflow From Planning - Blocking - Spline - Polish 	
Week 4	<ul style="list-style-type: none"> • Review Assignment 1 – Polish Pass 	
Week 5	<ul style="list-style-type: none"> • Idle to Attack Animation for Games • Creature animation • Animal anatomy and movement • Gathering and cataloging appropriate reference materials • Quadruped animation cycles • Portfolio Presentation Discussed - final portfolio will be presented week 15 	Assignment 2 - Animate a quadrupedal character, due week 9
Week 6	<ul style="list-style-type: none"> • Review Quadruped Assignments Blocking Passes 	
Week 7	<ul style="list-style-type: none"> • Review Quadruped Assignments Spline Passes • Winged or Serpentine Characters • Discussion on methods for solving creature animation problems, adding simulation • Adding dynamic simulations to animated scenes 	
Week 8	<ul style="list-style-type: none"> • Review Quadruped Assignments Polish Passes 	
Week 9	<ul style="list-style-type: none"> • Facial Performance Exercise • Discussion on camera animation and shot setup 	Assignment 3 – Scene Cut, due week 13
Week 10	<ul style="list-style-type: none"> • Cut Scene Planning and Blocking Review • Using Reference 	
Week 11	<ul style="list-style-type: none"> • Cut Scene Spline Review • Posing Exercise 	
Week 12	<ul style="list-style-type: none"> • Group animated project from idea to final production • Cut Scene Polish Review 	Team project – Group animated production, due week 15 Portfolio Presentation, due Week 15
Week 13	<ul style="list-style-type: none"> • Motion capture in animation • Capabilities and uses of motion capture in animated productions • Applying motion capture data to characters 	

	<ul style="list-style-type: none"> • Cleaning, processing, and parsing motion capture data • Group Assignment Planning and Blocking Review 	
Week 14-15	<ul style="list-style-type: none"> • Group Assignment Polish Review • Assemble Demo Reel Showcasing Semesters Work 	

EVALUATION PROFILE

Participation	10%
Exercises	10%
Assignment 1 – Shifting Weight	10%
Assignment 2 – Quadruped Animation	10%
Assignment 3 – Personal project	30%
Team project	25%
<u>Portfolio Presentation</u>	<u>5%</u>

Total: 100%

Assignment Descriptions

All assessments will be completed and/or submitted online.

- Assignments – MS Teams
- Work in progress – upload your video files to SyncSketch for weekly feedback and/or drawovers

All assignments will be included in the calculation of your final grade. Failure to submit assignments may result in failing the course.

Participation

Participation is evaluated based on regular attendance in classes and labs, active engagement in discussions and projects, demonstrated understanding of assigned readings and coursework, and the frequency and quality of relevant comments, questions, and observations.

GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

Incomplete Grades

Grades of Incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

Late Assignments

All assignments must be delivered at the place and time specified by the instructor. Late assignments will only be accepted if prior approval for a late submission date has been given by the instructor.

Missed Exams/Quizzes/Labs etc.

If you anticipate missing an exam/quiz/or lab, please consult with your instructor prior to the scheduled date, so that alternate arrangements can be considered. Accommodation can be made to honour community needs and traditional practices.

Attendance

Students are expected to attend all classes and associated activities. Attendance is taken at the start of each class. Students who miss more than 20% of the course will not receive credit. Students are responsible for all material and assignments, even if absent. If circumstances affect attendance or coursework, email the instructor in advance to discuss possible adjustments. Instructors are not required to repeat missed material.

English Usage

Students are expected to proofread all written work for any grammatical, spelling and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

Electronic Devices

Students may use personal electronic devices during class for note taking only.

On-line Communication

Please be sure to check your official Capilano University email regularly as all official communication will be sent via this email address only. Additionally, you should be logging on to eLearn/teams 3 to 4 times per week for class updates and/or to engage in learning activities.

UNIVERSITY OPERATIONAL DETAILS**Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilanou.ca/student-services/>

Capilano University Security: download the [CapU Safe Alert App](#)

Policy Statement (S2009-06)

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy

and procedures S2017-05 Academic Integrity for more information:

<https://www.capilanou.ca/about-capu/governance/policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence Policy and B.401.1 Sexual Violence Procedure (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

DEPARTMENT OR PROGRAM OPERATIONAL DETAILS**Continuation Policy**

Students must successfully complete the required and elected 2D Animation (ANIM), 3D Animation (DIGI) or VFX course credits in one term before continuing to the next term.

Punctuality

Punctuality is essential. Students more than 15 minutes late for class will be marked absent.

Professional Behaviour

Students must demonstrate a professional attitude and behaviour toward work, other students, guests, and instructors. Each student should demonstrate reliability, respect for and co-operation with colleagues. A willingness to work calmly and courteously under difficult conditions as well as a determination to achieve first-class work while meeting deadlines is necessary in this course. Students must show respect for equipment and facilities.

Class Recordings

Class sessions may be recorded for use within this course only. Recordings may not be shared, reproduced, or uploaded outside the class. If recordings are to be used for any other purpose, students who are identifiable will be notified and their consent requested in advance.

Online Community and Communication Tools

All class content will be available through the course on <https://elearn.capu.ca>. All direct student communication will be done via Capilano email/teams.

Software	Link
eLearn	https://elearn.capu.ca/
myCapU	www.capilanou.ca/mycapu/
Zoom	www.zoom.com/
Microsoft Teams	teams.microsoft.com