

# 3D Animation & Rigging

ART - 2640 351

## Course Description

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Application of the various methods for creating animation using 3D software, Including keyframing, simulations, and character set up with emphasis on applying traditional animation principles.

Prereq: ART 1620 & 1630

Semester: Fall & Spring

## Course Student Learning Outcomes

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- Implement skill and techniques in using industry standard software, relating to creating 3d animation.
- Rig/articulate a 3d character for movement.
- Show improvement in traditional principles of animation relating to 3d animation.
- Exhibit traits of professional responsibility.
- Demonstrate production workflow as it relates to 3d animation.

## Course Prerequisites

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It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a grade of C or better to continue with the program. A student may be dropped from a class if the prerequisite has not been completed.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any VAD class that has a prerequisite. Students wishing to audit any VAD (ART) class without officially completing a prerequisite with a grade of C or better must obtain signed permission from the instructor. VAD (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines. Please see the SLCC General Catalog for more information.

## Engagement Plan

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Example language:

- I will respond to email within 3 days. I will offer feedback on major assignments within 3 days. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.

## Keys for Success (how to succeed in the course)

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### Student Success

Disability Resource Center SLCC values inclusive learning environments and strives to make all aspects of the College accessible to our students. If you have a disability and believe you need accommodations to improve access to learning materials or the learning environment, please contact the Disability Resource Center: (phone) 801-957-4659; (email) [drc@slcc.edu](mailto:drc@slcc.edu); (website) [www.slcc.edu/drc](http://www.slcc.edu/drc).

General Education Regardless of your major, General Education courses build a foundation of broad knowledge and skills that help you in your further career and life.

General Learning Support & Tutoring Services provide support for SLCC students enrolled in any class at the College. All resources are provided free-of-charge. Ask your instructor about discipline-specific learning support and tutoring services.

- Tutoring and Learning Centers: provide free assistance in Math, Science, Accounting, CSIS and Allied Health Classes at 6 campus locations.

- Student Writing Center: provides in-person and online feedback on all writing assignments.
- Academic Literacy Center: provides tutoring in reading and conversation.
- Library Services: provides research help, print and online resources, computers and study space.
- ePortfolio Lab: provides drop-in assistance for all ePortfolio questions.
- eLearning Support: provides support for navigating online and hybrid classes.
- Business Resource and Innovation Center: provides tutors and a study space for students in Business and CSIS courses. Located in BB 226 on Taylorsville-Redwood Campus.

Advising and Counseling Support Services provide support for students enrolled in any class as the college.

- Center for Health and Counseling: provides health care, mental health counseling, massage therapy services and healthy lifestyle programs.
- Veterans' Services: assists hundreds of students in using their VA education benefits each semester.
- Academic and Career Advising: helps students plan, explore, make decisions, access resources and evaluate their academic and career goals.

Academic Achievement Center: helps students achieve GPA requirements for graduation.

## Brief Description of Assignments/Exams

Animation Principles - Research classic cartoons to better understand Animation Principles

Tin Can Animation - Build a simple rig, learn basic animation tools and apply Animation Principles

Dynamics - Learn and practice simulated animations through Maya dynamics

Human Rig - Build a human rig that will be applied for three animation assignments  
Joints, IK (Legs)

Controllers (Feet, Spine)

Mirroring Joints (Arms & Hands)

Set Driven Keys (Fingers, Head)

Painting Weights

Blend Shapes

Jump Animation - Using the human rig animate a jump, applying Animation

Principles and animation tools

Run Animation - Create a run cycle using run animation principles for gaming and film

Action Animation w/Sound - Come up with your own idea for an animated action using what you've learned in this course

FINAL - review all animations in class as demo reels

## Assignment Schedule

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Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Roll Call Attendance</a>	Assignment	100
9/4/25	<a href="#">Animation Principles</a>	Discussion	40
9/11/25	<a href="#">Tin Can Animation</a>	Discussion	40
9/18/25	<a href="#">Dynamics</a>	Discussion	40
10/30/25	<a href="#">Character Rig</a>	Assignment	40
11/13/25	<a href="#">Jump Animation</a>	Discussion	40
11/25/25	<a href="#">Run Animation</a>	Discussion	40
12/11/25	<a href="#">Action Animation w/Sound</a>	Discussion	40
12/16/25	<a href="#">End of Course Survey</a>	Quiz	20
12/16/25	<a href="#">Final</a>	Discussion	40

## Grading Scale

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My professional experience and aesthetic preferences are factors that influence my judgment. Specific objectives for each project will be outlined on CANVAS and explained in-class. Project grades will foremost be based on the excellence of the project work. Students will receive point value for work that meets the criteria as given.

Assignments are generally graded on a rubric with 4 points scale

Criteria	Professional 4.0 pts	Adequate 3.0 pts	Needs Work 2.0 pts	Inadequate 1.0 pts	No Submission 0.0 pts
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There is no assigned extra credit in this class. Final Grades will be given in the following breakdown as recommended by the Visual Art and Design Department.

- A (93% - 100%)
- A- (90% - 92.9%)
- B+ (86% - 89.9%)
- B (83% - 85.9%)
- B- (80% - 82.9%)
- C (70% - 79.9%)

### **Attendance**

Students are expected to attend all classes in which they are enrolled on a regular and punctual basis.

If on occasion, a student must miss class he or she is responsible for acquiring information from CANVAS or another student, i.e., not the instructor. Networking with other students is highly recommended.

If a student is tardy, it is his or her responsibility to notify the teacher of attendance before the class is over.

Class Sessions Per Week Days Missed = E132639412515

\*Example is for a class meeting during a traditional Spring or Fall Semester. Shortened semesters require custom calculations.

If a student has a illness or has another valid and compelling reason for being absent more than 20% of the class periods, he or she should talk to the instructor about receiving an "Incomplete" grade. If granted the instructor and student must work together to complete coursework. However, Instructors are not compelled, nor required, to give an "Incomplete." A withdraw may be more appropriate.

For more information on applying for an "Incomplete" Grade:

<https://www.slcc.edu/student/register/grades-and-grading-policies.aspx>.

On the academic calendar, you will find dates you will want to pay particular attention to:

- Last Day to Add
- Last day to drop with 100% refund
- Last Day to Withdraw (with no refunds). You may want to withdraw from your course rather than receive an E if it appears you will not pass.
- Holidays when classes are not in session.
- Last day of class and Reading Day

## **Deadlines**

Project deadlines are not negotiable. Make backups of all digital work. "My hard drive crashed," or similar excuses will be ignored. Legitimate excuses for late assignments do exist; if you are so sick that you cannot possibly make your commitment to be in class, every effort should be made to get your assignment submitted. Lack of attendance will affect your grade regardless of the late circumstances. Drawing, design, story, animation are processes of constant improvement. We have frequent critiques to review the progress of your work. If your work is not finished, you are still expected to display it and participate.

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## **Revisions**

"Half of my life is an act of revision." – John Irving

Projects that are turned in on time will not receive a final grade until the end of the semester so that you will have the opportunity to make revisions. You will receive a temporary grade at the time each is due. When the revisions are completed a final grade will be assigned to each, if the revisions are done poorly the grade will not be improved and may even drop. Projects should be reworked based on the critique comments until they are as strong as possible.

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## Grading

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## Academic Integrity

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SLCC Policies, Procedures, & Expectations

Conduct

The student is expected to follow the SLCC Student Code of Conduct.

Class behavior disruptive to the learning environment will be referred to the Dean of Students. The expectations for this course is that a student will...

- be engaged, prepared, and present during class time.
- participate in discussions.



- use electronic devices for activities related to the class. Examples like accessing a textbook, taking notes, research, etc. not for social networking or engaging in activities not related to the class.
- be enrolled in this section of the course to attend, and do not bring children, spouses or others to class unless they too are enrolled.
- be responsible for keeping track of their own materials.
- not remove any school property from the room.
- follow the no food or drink policy for all computer labs.
- not present others work as their own. Academic Honesty will be strictly enforced in this course. Any behavior deemed unethical or that does not abide by reasonable academic honesty will result in action by the professor. Students caught cheating in this course will forfeit their right to pass this course!
- try to maintain a standard of hygiene, language, appearance, punctuality, inclusiveness, friendliness, etc. to make this class a safe, comfortable, and pleasant place for all to be. I do not offer content accommodations. If you find any of the content of this course offensive you may opt not to participate. If you choose not to participate in a section of the class that is worth points, you will not receive them.
- obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. Common courtesy and professional behavior dictate that you notify someone when you are recording them. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material. You may not record or publish information from the class without written authorized use from the instructor. If used without authorization you have violated privacy/intellectual property rights. Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without their approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.

## How to Navigate to Canvas

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## Institutional Policies

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As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

## Learning Support and Tutoring Services

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We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## Advising and Counseling Support Services

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At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## Student Academic Calendar

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As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)

## Additional Policies

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### Safety

- If you see something, say something! Emergency? Call 911  
Non-emergencies: Call the individual police agencies by campus.
- For accurate info concerning school closures (weather, power outages or other emergencies.)  
Call (801) 957-INFO or (801) 957-4636



- Evacuation Procedures  
Walk to the nearest exit, down the stairs and out the doors of the building. Please meet and stay with your class at a safe distance from the exit until an all clear is given.
- Parking Lot Escort Services  
A parking lot safety escort service is available through SLCC's Department of Public Safety. Request the service by calling 801-957-3800 from any campus between 6:00-10:00 p.m. Monday through Friday. The nearest Campus Safety Officer (CSO) or Utah Highway Patrol Officer will be dispatched to escort you to your car. It is advisable that you use the buddy system and walk with a friend after dark.
- SLCC Weapons Free Policy  
No deadly weapon should be on any SLCC property unless the person has a concealed weapons permit or has notified and has authorization from SLCC Department of Public Safety. For concerns, contact Shane Crabtree, SLCC Director of Public Safety at: [shane.crabtree@slcc.edu](mailto:shane.crabtree@slcc.edu)