School of Arts, Technology, and Emerging Communication

Arts, Technology, and Emerging Communication with Animation Pathway (BA)

Students who wish to specialize in Animation within the Arts, Technology, and Emerging Communication major may apply to be admitted into the Animation Pathway after consultation with their academic advisor. This pathway provides a thorough grounding in the development and creation of digital animation in its various forms, including 3D Computer Animation, Motion Graphics, and Motion Capture. Students are eligible to apply to the Animation Pathway during their third semester within the School. Admission to the Animation Pathway requires a portfolio submission including course work examples, a writing component, and any other materials deemed appropriate. Pathway acceptance is determined by an Animation faculty jury. If accepted, Animation Pathway students will have the opportunity to work in a studio environment, explore visual narrative and experimental animation, and learn project development and management practices. The Animation Pathway examines the potential of animation in diverse areas such as entertainment, education, and visualization. Close consultation with academic advisors is recommended. By selecting courses from a variety of School elective headings, students are able to infuse other areas of interest into their Animation studies.

Unless otherwise noted, courses in Arts, Technology, and Emerging Communication are open to all students in the University. However, students majoring in Arts, Technology, and Emerging Communication may be given preference in certain course enrollments.

Bachelor of Arts in Arts, Technology, and Emerging Communication with Animation Pathway

**Degree Requirements** ([120 semester credit hours](https://catalog.utdallas.edu/2019/undergraduate/programs/atec/arts-and-technology-animation)°)

Faculty

**Professors:** Anne Balsamo, Paul Fishwick, Roger Malina, Mihai Nadin, Marilyn Waligore

**Clinical Professors:** Elizabeth (Lisa) Bell, Tim Christopher, Paul Lester

**Associate Professors:** Christine (xtine) Burrough, Monica Evans, Eric Farrar, Todd Fechter, Midori Kitagawa, Kim Knight, Maximilian Schich, Andrew Scott, Dean Terry, hxc176430
Clinical Associate Professors: Cassini Nazir, Harold (Chip) Wood

Assistant Professors: Olivia Banner, Casey Johnson, Angela M. Lee, Juan Llamas Rodriguez, Sean McComber, Josef Nguyen, Wendy Sung, Hong An Wu

Senior Lecturers: Elizabeth Boyd, Christopher Camacho, Adam Chandler, Daedra Evans Christopher, Harold Fitzgerald, Sharon Hewitt, Laura Imaoka, Timothy Lewis, David Marks, Peter McCord, Roxanne Minnish, Christina Nielsen, Kara Oropallo, Monika Salter, cvv180000

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication

RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist

MATH 1314 College Algebra

Or select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

HUMA 1301 Exploration of the Humanities

LIT 2331 Introduction to World Literature

PHIL 1301 Introduction to Philosophy

PHIL 2316 History of Philosophy I

PHIL 2317 History of Philosophy II

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

ARTS 1301 Exploration of the Arts
AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
DANC 1310 Understanding Dance
THEA 1310 Understanding Theatre
FILM 2332 Understanding Film
MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:
HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours
Choose two courses from the following or other Component Area Option
ARHM 2340 Creativity
ARHM 2342 Connections in the Arts and Humanities
ARHM 2343 Science and the Humanities
ARHM 2344 World Cultures

II. Major Requirements, Lower-Division: 24 semester credit hours
ATCM 2300 Introduction to Technoculture
ATCM 2301 Computer Imaging
ATCM 2302 Design I
ATCM 2303 Project Management for Arts, Technology, and Emerging Communication I
ATCM 2305 Computer Animation Processes
ARTS 1316 Drawing Foundations
CS 1335 Computer Science I for Non-majors\(^3\)
CS 2335 Computer Science II for Non-majors\(^4\)

III. Major Requirements, Upper-Division: 24 semester credit hours

ATCM 3301 Digital Content Design
ATCM 3311 Tools Development for Arts, Technology, and Emerging Communication
  or CS 3360 Computer Graphics for Artists and Designers
ATCM 3340 Design II

Any 3000-level or 4000-level Art History (AHST) course
  or THEA 3323 Performance in Historical Context
  or FILM 3321 Film in Historical Context
  or MUSI 3322 Music in Historical Context
  or MUSI 3324 Jazz History: Roots to Swing
  or MUSI 3325 Jazz History: Modern Jazz since BeBop
  or MUSI 3327 Music in Modern Culture
PHIL 3309 Philosophy of Technology
  or HIST 3337 Technology and Western Civilization
  or HIST 3374 American Technological Development
  or LIT 3316 The Literature of Science Fiction
  or LIT 3334 Literature of Science

ATCM 4398 Capstone Project
  or ATCM 4397 Senior Seminar

And choose two courses from the following:

ATCM 3306 Modeling and Texturing I
ATCM 3307 Lighting and Composition I
ATCM 3308 Rigging I
ATCM 3305 Computer Animation I
IV. Elective Requirements: 30 semester credit hours

Prescribed Electives: 15 semester credit hours

Choose any five courses from the following: (At least 2 must be 4000 level)

- **ATCM 3305** Computer Animation I
- **ATCM 3306** Modeling and Texturing I
- **ATCM 3307** Lighting and Composition I
- **ATCM 3308** Rigging I
- **ATCM 3309** Pre-Production Design I
- **ATCM 3310** Procedural Animation
- **ATCM 3311** Tools Development for Arts, Technology, and Emerging Communication
- **ATCM 3312** Surfacing and Shading I
- **ATCM 3338** Motion Graphics I
- **ATCM 3350** Digital Video Production I
- **ATCM 4305** Computer Animation II
- **ATCM 4306** Modeling and Texturing II
- **ATCM 4307** Lighting and Composition II
- **ATCM 4308** Rigging II
- **ATCM 4309** Pre-Production Design II
- **ATCM 4310** Motion Capture Animation
- **ATCM 4312** Digital Sculpting
- **ATCM 4313** Special Effects
- **ATCM 4314** Character Effects
- **ATCM 4315** Computer Animation III
- **ATCM 4316** Animation Lab I
- **ATCM 4317** Animation Lab II
- **ATCM 4318** Motion Capture Lab
- **ATCM 4319** Topics in Animation
- **ATCM 4338** Motion Graphics II
- **ARTS 3367** Figure Drawing
ARTS 3371 Photography: Black/White
ARTS 3372 Photography: Color Concepts
ARTS 3377 Photography: Altered Image
ARTS 3379 Photography: New Media

Free Electives: 15 semester credit hours

Both upper-and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 1336 Programming Fundamentals and CS 1136 Computer Science Laboratory and/or CS 1337 Computer Science I (if placed out of CS 1336 and CS 1136).

4. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 2336 Computer Science II.