School of Arts, Technology, and Emerging Communication

Arts and Technology (BA)

Students who complete the major in Arts and Technology receive a thorough grounding in the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media. A student majoring in Arts and Technology will be required to channel selected coursework according to individual needs and specialties. Particular attention should be given to the Prescribed Electives for the major, and close consultation with academic advisors is recommended. By selecting courses from a variety of the remaining elective headings, students are able to combine courses in technology and fine arts with coursework in literary criticism and interpretation, creative writing and translation, and linguistics and languages.

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

Bachelor of Arts in Arts and Technology

Degree Requirements (120 semester credit hours)¹

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** Masterpieces of 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
- **DRAM 1310** Understanding Theater
- **FILM 2332** Understanding Film (Recommended)
- **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
- **HIST 2332** Civil War and Reconstruction

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 courses:
  - ARHM 2340 Creativity
  - ARHM 2341 Global Media
  - ARHM 2342 Connections in the Arts and Humanities
  - ARHM 2343 Science and the Humanities
  - ARHM 2344 World Cultures

II. Major Requirements, Lower-Division: 21 semester credit hours
  - ARTS 1316 Drawing Foundations
  - ARTS 2380 2D Design Foundations
  - ATEC 2320 Exploration of Arts and Technology
    or ATEC 2325 Fundamentals of Game Design and Development
    or ATEC 2326 Computer Animation Processes
    or ATEC 2385 Sound Design
  - ATEC 2382 Computer Imaging
  - ATEC 2384 Basic Design Principles and Practices
  - CS 1335 Computer Science I for Non-majors³
  - CS 2335 Computer Science II for Non-majors⁴

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

Major Core Courses
  - ARTS 3371 Photography: Black/White
    or ARTS 3372 Photography: Color
    or ARTS 3377 Photography: Altered Image
    or ARTS 3379 Photography: New Media
  - ATEC 3320 Digital Content Design and Usability
    or ATEC 3325 Introduction to Computer Mediated Communication
Any ATEC 3000 level Animation (ATEC 3317 Modeling and Texturing I)
or **ATEC 3327** Lighting and Composition I
or **ATEC 3328** Rigging I
or **ATEC 3336** Computer Animation I
or **ATEC 3351** Game Design I
or **ATEC 3310** Audio Technologies

**ATEC 4340** Project Management for Arts and Technology

**ATEC 4380** Capstone Project

**CS 3360** Computer Graphics for Artists and Designers

**HIST 3337** Technology and Western Civilization
or **HIST 3374** American Technological Development
or **HIST 3332** History of the Electronic Age

**LIT 3334** Literature of Science
or **LIT 3316** The Literature of Science Fiction
or **LIT 3317** The Literature of Fantasy
or **HIST 3328** History and Philosophy of Science and Medicine

## IV. Elective Requirements: 33 semester credit hours

**Prescribed Electives: 15 semester credit hours**

Choose any five courses from the following:

- **ATEC 3310** Audio Technologies
- **ATEC 3312** Audio Productions Lab
- **ATEC 3317** Modeling and Texturing I
- **ATEC 3324** Computer Modeling for Digital Fabrication
- **ATEC 3326** Emerging Media Production
- **ATEC 3327** Lighting and Composition I
- **ATEC 3328** Rigging I
- **ATEC 3330** Digital Video Production I
- **ATEC 3331** Sound Design for Linear and Non-linear Media
- **ATEC 3332** Additive Processes in Digital Fabrication
- **ATEC 3334** Laser Cutting in Digital Fabrication
- **ATEC 3335** Scanned Data in Digital Fabrication
ATEC 3336 Computer Animation I
ATEC 3338 Digital Applications in Sculpture
ATEC 3339 Projection Mapping Studio
ATEC 3351 Game Design I
ATEC 3352 User Experience Design for Games I
ATEC 3354 Sound Design for Games and Interactive Media
ATEC 3355 Scripting for Games I
ATEC 3356 Games and Narrative I
ATEC 3361 Internet Studio I
ATEC 3363 Basic Interaction Design
ATEC 3364 Level Design I
ATEC 3365 Virtual Environments
ATEC 4310 Digital Audio Processing
ATEC 4312 Advanced Audio Productions Lab
ATEC 4322 Digital Sculpting
ATEC 4328 Rigging II
ATEC 4330 Digital Video Production II
ATEC 4336 Computer Animation II
ATEC 4347 Advanced Design
ATEC 4348 Modeling and Texturing II
ATEC 4349 Lighting and Composition II
ATEC 4361 Internet Studio II
ATEC 4365 Level Design II
ATEC 4367 Game Design II
ATEC 4368 User Experience Design for Games II

Free Electives: 18 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.

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