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*

Faculty

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
- **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
- ATEC 2320 Exploration of Arts and Technology
  or ATEC 2325 Game Design Fundamentals
  or ATEC 2326 Computer Animation Processes
  or ATEC 2385 Sound Design
- ATEC 2340 Project Management for Arts and Technology I
- ATEC 2382 Computer Imaging
- ATEC 2384 Design I
- CS 1335 Computer Science I for Non-majors
- CS 2335 Computer Science II for Non-majors

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

Major Core Courses
Any 3000- or 4000-level Art History (AHST) course
  or DRAM 3323 Performance in Historical Context
  or FILM 3321 Film in Historical Context
or MUSI 3322 Music in Historical Context

ATEC 3310 Audio Technologies
or 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 3346 Storytelling for New Media I
or ATEC 3351 Game Design I

ATEC 3320 Digital Content Design and Usability
or ATEC 3325 Introduction to Computer Mediated Communication

ATEC 3329 Tools Development for Arts and Technology
or CS 3360 Computer Graphics for Artists and Designers
or CS 4352 Human Computer Interaction I

ATEC 3330 Digital Video Production I
or ARTS 3371 Photography: Black/White
or ARTS 3372 Photography: Color
or ARTS 3377 Photography: Altered Image
or ARTS 3379 Photography: New Media
or ARTS 4368 Advanced Visual Arts

ATEC 3384 Design II

ATEC 4380 Capstone Project
or ATEC 4381 Senior Seminar

HIST 3328 History and Philosophy of Science and Medicine
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

IV. Elective Requirements: 33 semester credit hours

Prescribed Electives: 15 semester credit hours
Choose any five courses from the following, from any option area:

**Options in Animation:**
- **ATEC 3315** Motion Graphics
- **ATEC 3316** Procedural Animation
- **ATEC 3317** Modeling and Texturing I
- **ATEC 3318** Pre-Production Design I
- **ATEC 3327** Lighting and Composition I
- **ATEC 3328** Rigging I
- **ATEC 3329** Tools Development for Arts and Technology
- **ATEC 3336** Computer Animation I
- **ATEC 4318** Pre-Production Design II
- **ATEC 4328** Rigging II
- **ATEC 4336** Computer Animation II
- **ATEC 4339** Special Effects
- **ATEC 4345** Motion Capture Animation
- **ATEC 4348** Modeling and Texturing II
- **ATEC 4349** Lighting and Composition II
- **ATEC 4351** Animation Studio I
- **ATEC 4352** Animation Studio II
- **ATEC 4356** Computer Animation III

**Options in Design:**
- **ATEC 3315** Motion Graphics
- **ATEC 3320** Digital Content Design and Usability
- **ATEC 3325** Introduction to Computer Medicated Communication
- **ATEC 3361** Internet Studio I
- **ATEC 3363** Interaction Design I
- **ATEC 4340** Project Management for Arts and Technology II
- **ATEC 4341** Digital Marketing Design
- **ATEC 4347** Design Innovation Workshop
ATEC 4357 Strategic Design
ATEC 4361 Internet Studio II
ATEC 4363 Interaction Design II

Options in Emerging Media:
EMAC 3300 Reading Media Critically
EMAC 3326 Emerging Media Production
EMAC 3328 The Digital Society
EMAC 3343 Social Networks
EMAC 3350 Reading in a Networked Era
EMAC 4326 Advanced Emerging Media Production
EMAC 4335 Emerging Media and the Digital Economy
EMAC 4350 Networked Identities
EMAC 4365 Ethics in Emerging Media

Options in Fabrication:
ATEC 3324 Computer Modeling for Digital Fabrication
ATEC 3332 Additive Processes in Digital Fabrication
ATEC 3334 Laser Cutting in Digital Fabrication
ATEC 3335 Scanned Data in Digital Fabrication
ATEC 3338 Digital Applications in Sculpture
ATEC 3339 Projection Mapping Studio
ATEC 4322 Digital Sculpting
ATEC 4324 Digital Fabrication Studio I
ATEC 4325 Digital Fabrication Studio II
ATEC 4329 Advanced Projects in Digital Fabrication Studio

Options in Gaming:
ATEC 3329 Tools Development for Arts and Technology
ATEC 3351 Game Design I
ATEC 3352 User Experience Design for Games I
ATEC 3353 Game Studies I
ATEC 3354 Sound Design for Games and Interactive Media
ATEC 3355 Scripting for Games I
ATEC 3356 Games and Narrative I
ATEC 3364 Level Design I
ATEC 3365 Virtual Environments
ATEC 4350 Game Production Lab I
ATEC 4353 Game Production Lab II
ATEC 4365 Level Design II
ATEC 4367 Game Design II
ATEC 4368 User Experience Design for Games II

Options in Sound:
ATEC 3310 Audio Technologies
ATEC 3312 Audio Productions Lab I
ATEC 3331 Sound Design for Linear and Non-linear Media
ATEC 3354 Sound Design for Games and Interactive Media
ATEC 4310 Digital Audio Processing
ATEC 4312 Audio Productions Lab II

Options in Storytelling:
ATEC 3318 Pre-Production Design
ATEC 3346 Storytelling for New Media I
ATEC 3356 Games and Narrative I
ATEC 4346 Storytelling for New Media II

Options in Video:
ATEC 3330 Digital Video Production I
ATEC 4330 Digital Video Production II

Topics Course Options:
ATEC 3370 Topics in Arts and Technology
ATEC 4370 Special Topics in Arts and Technology
ATEC 4371 Topics in Animation
ATEC 4373 Topics in Game Development
ATEC 4374 Topics in Digital Design
ATEC 4375 Topics in Sound Design

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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