



The visualization program at Texas A&M University focuses on the creation, design and development of the visual experience. You'll learn to create digital and electronic visualizations as a technical artist.

As an undergraduate, you'll take a sequence of studio classes to grow in your area of interest. These project-based studios are supported by courses that teach programming, art theory and other technical skills.

ABOUT THE VISUALIZATION PROGRAM

The Bachelor of Science in Visualization program fosters students' artistic, scientific and technical abilities. Students develop a breadth and depth of knowledge and skills needed to be successful in the field. Each student chooses a concentration in which they develop a focused expertise. Interdisciplinary coursework complements their focus to provide a broad foundation of knowledge.

CAREERS

Visualization graduates are prepared for a range of careers, including:

- Environmental modeling
- Production management
- Asset development
- UI/UX development
- Game asset development

AREAS OF EMPHASIS

- Visual computing: Coding aided art
- Technical art: Digital application of artist skills
- Visual art: Traditional application or artist skills

PROGRAM SEMESTER CURRICULUM* | CATALOG 144 (2021 - 22)

FIRST YEAR | FALL SEMESTER

Listing	Class	Credits
ARTS 115	Drawing for Visualization	3
ENGL 104	Composition and Rhetoric	3
MATH 151	Engineering Mathematics 1	4
VIST 105	Principles of Design1	3
VIST 131	First Year Seminar	1
VIST 170	Introduction to Visualization Computing Environments	1
VIST 282	2D Visualization Techniques	1
Semester Credit Hours		16

FIRST YEAR | SPRING SEMESTER

MATH 152	Engineering Mathematics 2	4
VIST 106	Principles of Design 2	3
VIST 270	Computing for Visualization	4
VIST 283	3D Visualization Techniques	1
Art History Class		3
POLS 206	Government/Political Science	3
Semester Credit Hours		18

SECOND YEAR | FALL SEMESTER

ARTS 212	Life Drawing	3
PHYS 201	College Physics	4
VIST 205	Principles of Design 3	3
VIST 271	Computing Visualization 2	4
Visualization Directed Elective ¹		3
Semester Credit Hours		17

SECOND YEAR | SPRING SEMESTER

Art History Class		3
VIST 206	Visual Studies Studio 1	3
VIST 235	Theory and Practice in Visualization	2
VIST 375	Foundations in Visualization	3
Traditional Arts ²		3
Semester Credit Hours		14

THIRD YEAR | FALL SEMESTER

Art History Class		3
VIST 305	Visual Studies Studio 2	3
VIST 339	Research Techniques in Visualization	3
Visualization Techniques		1
HIST 105	History of the United States	3
Semester Credit Hours		13

THIRD YEAR | SPRING SEMESTER

CARC 301 or VIST 494	Field Studies in Design Innovation ³ or Internship	6
	Language, Philosophy, and Culture ³	3
	Free Elective ^{3,4}	3
Semester Credit Hours		6 or 12

FOURTH YEAR | FALL SEMESTER

Listing	Class	Credits
VIST 405	Visual Studies Studio 3	3
VIST 432 or VIST 441	Applied Perception or Scientific and Technological Developments in Visual Arts	3
VIST 439	Capstone Proposal Development	1
	Digital Media ⁵	3
	Life and Physical Sciences	5
Semester Credit Hours		15

FOURTH YEAR | SPRING SEMESTER

HIST 106	History of the United States	3
VIST 409	Capstone Studio	3
POLS 207	State and Local Government	3
	Communication	3
	Social and Behavioral Sciences	3
Semester Credit Hours		15

A grade of C or better must be made in all College of Architecture courses (ARCH, ARTS, CARC, COSC, ENDS, LAND, LDEV, VIST, URPN, and VIZA). Students must also make a grade of C or better in any course used as an equivalent substitution for College of Architecture courses that satisfy degree requirements.

*Subject to change

¹Select from an 300 or 400 level ARTS or VIST courses

²Select from ARTS 305, ARTS 308, ARTS 311, ARTS 312, ARTS 315, ARTS 325, ARTS 328, ARTS 353, VIST 310, VIST 465

³Semester away: may be satisfied by study abroad, at another university, internship, or special arrangement by advisor or instructor. Electives may be taken during summer, online, distance education, at another university or college, or at study abroad university.

⁴Select from any 300-499 course not used elsewhere. If you do not participate in study abroad, 3 hours will come from ICD.

⁵Select from ARTS 303, ARTS 304, ARTS 403, VIST 357, VIST 370, VIST 372, VIST 374, VIST 470, VIST 472, VIST 476/CSCE 447, VIST 477/CSCE 446, VIST 486, VIST 487/CSCE 443.