COLLEGE OF ARCHITECTURE

UNDERGRADUATE DEGREE PROGRAMS

OVERVIEW AND CURRICULUM



ENVIRONMEN ENVIRONMENTAL DESIGN IS

Falling under the realm of architecture, which is the imaginative blend of art and science in design, Texas A&M's four-year Bachelor of Environmental Design (B.E.D) degree fosters creativity and problem-solving skills, provides extensive knowledge of architectural history and theory, and cultivates knowledge and capability in building and design technology. The program prepares students for professional Master of Architecture graduate programs and challenging careers in industries supporting the built environment.

Students pursuing the pre-professional B.E.D. degree enroll in design studio courses that tackle architectural projects similar to those faced by professional architects. Studio projects emphasize the technical and expressive content of design, the processes by which students research, synthesize, and document their ideas, and create tangible designs.

MINORS:

- Art and Architecture History
- Sustainable Architecture and **Planning**
- Architectural Fabrication and Product Design
- Architecture Heritage Conservation

The studio courses are complemented by courses in technology, history, theory, and practice. Architectural design integrates diverse fields of interest, and the architect is best thought of as a professional who bridges and blends a diverse body of knowledge into significant projects related to the built environment.

Coursework encourages multidisciplinary and comparative perspectives that allow opportunities for communication and team-oriented methods of production. Global perspectives are encouraged by a mandatory, semester-long study away experience that includes study abroad or internship opportunities.

Students interested in professional registration as an architect must complete a National Architectural Accreditation Board-accredited Master of Architecture program in addition to the four-year undergraduate Bachelor of Environmental Design Degree.

CATALOG 143 (2020-2021) PROGRAM SEMESTER CURRICULUM*

STING	CLASS	CREDITS
FIF	RST YEAR Fall Semester	
ENDS 105	Design Foundations I	4
ENDS 115	Design Communication Foundations	3
ARCH 249	Survey of World Architecture History I	3
ARCH 281	Seminar in Contemporary Architecture	1
Select one of the	e following:	
MATH 140, or MATH 152	Mathematics for Business and Social Sciences, or Engineering Mathematics II	3 3 3
	SEMESTER CREDIT HOU	RS 14
FIF	RST YEAR Spring Semester	
ENDS 108	Design and Visual Communication Foundations II	5
ARCH 250	Survey of World Architecture History II	3
ENGL 104	Composition and Rhetoric	3
Select one of the	e following:	
MATH 142 or MATH 151	Business Calculus or Engineering Mathematics I	3
Cultural Discou	urse ¹	3
	SEMESTER CREDIT HOU	RS 17
SECO	ND YEAR Fall Semester	
ARCH 205	Architecture Design I	4
ARCH 212	Social and Behavioral Factors in Design	3
ARCH 330	The Making of Architecture	3
PHYS 201	College Physics	4
Government/ F	Political science	3
	SEMESTER CREDIT HOU	RS 17

^{*}Subject to change

All proposals for undergraduate independent study must be signed by the supervising faculty and submitted to the department for approval. Forms are available from the Department of Architecture Undergraduate Advisor in Langford ARCA 219, and on the department website.

TING	CLASS		CREDITS
SECO	ND YEAR	Spring Semester	
ARCH 206	Architectu	ıre Design II	5
ARCH 213	Sustainal	ole Architecture	3
CARC 481	Semester	Away Seminar	1
American histo	ry		3
Life and Physic	al Science	s Elective	4
		SEMESTER CREDIT HOUF	RS 16
THI	RD YEAR	Fall/Spring Semester	
ARCH 305	Architectu	ıral Design III	5
ARCH 331	Architectu	ıral Structures	3
ARCH 335	Architectu	ıral Systems	3
Communicatio	n Elective		3
Life and Physic	al Science	s Elective	1
		SEMESTER CREDIT HOUR	RS 15
THI	RD YEAR	Fall/Spring Semester	
Study Away Sei	mester		
Select one of the	e following	•	
CARC 301	Field Stud	lies in Design Innovation	12
	Study Aw	ay Elective ²	
or ARCH 494	Internship)	12
	Study Aw	ay Elective ²	
		SEMESTER CREDIT HOUF	RS 12
FOUR	TH YEAR	Fall Semester	
ARCH 405	Architectu	ıral Design IV	5
ARCH 431	Integrated	d Structures	2
ARCH 435	Integrated	d systems	2
American Histo	ory		3
Government/ P	Political Sc	ience	3
		SEMESTER CREDIT HOUR	RS 15
FOUR	TH YEAR	Spring Semester	
ARCH 406	Architectu	ıre Design V	5
ARCH 350		nd Theory of Modern and orary Architecture	3
Directed Electiv	ve ³		3
Directed Electiv	ve ³		3

TOTAL SEMESTER CREDIT HOURS 120

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.

Contact:

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¹ To be selected from any of the 100-499 level courses designated as cultural discourse (CD) not used elsewhere (such as CARC 101)

 $^{^{2}}$ Study away electives will be selected with the approval of the Assistant Dean for International Programs and Initiatives

³ Directed Electives are to be selected from an approved list; see the Department of Architecture Undergraduate Advisor located in Langford ARCA 219

GONSTRUCTION SCIENCE?

Construction science combines aspects of business, project planning, and construction management into one degree. Our four-year bachelor of science program will prepare students for a career as project engineers, site superintendents, estimators, and project managers.

Our accredited program teaches industry topics including construction methods and materials, estimating, scheduling, project management, surveying, structural analysis, equipment management, facilities management, construction law, and business/labor relations. This interdisciplinary approach provides the student with the best possible exposure to the various tools needed to become a construction industry leader.

Construction management graduates quickly become valued members of construction teams and participate in planning, cost estimating, scheduling, supervision, and commissioning of complete, high-quality facilities in a timely and safe and quality mapper. They also possess the professional knowledge

and safe and quality manner. They also possess the professional knowledge to confidently interact with professional engineers, registered architects, and owners to solve problems that may arise.

All students are required to complete an industry internship, which will provide them with an opportunity to apply their formal education and gain valuable work experience. The Department of Construction Science partners with the Construction Industry Advisory Council to stay current and meet industry needs.

- Cost estimating
- Project planning
- Facilities management
- Building information modeling
- Project management
- Construction law
- Risk management
- Scheduling

CONSTRUCTION SCIENCE

CATALOG 143 (2020-2021

PROGRAM SEMESTER CURRICULUM

LISTING	CLASS	CREDITS
FIF	RST YEAR Fall Semester	
CARC 289	Cultural and Social Issues in the Natural, Built, and Virtual Environment	3
COSC 153	Intro to the Construction Industry	3
ECON 202	Principles of Economics	3
HIST 105	American History	3
MATH 140	Mathematics for Business and Social Sciences	3
COSC 181	Construction Safety	1
	SEMESTER CREDIT HOUR	RS 16
FII	RST YEAR Spring Semester	
ACCT 209	Survey of Accounting Principles	3
COSC 175	Construction Graphics Communication	3
MATH 142	Business Calculus	3
HIST 106 or	American History or	3
HIST 226	Texas History	
ENGL 104	Technical and Business Writing	3
COSC 182	First Year Experience Course	1
	SEMESTER CREDIT HOUF	RS 16
SECO	ND YEAR Fall Semester	
ENGL 210	Technical and Business Writing	3
COSC 253	Construction Materials and Methods	3
PHYS 201	College Physics	4
POLS 206	Government/Political Science	3
Life and Physic	al Sciences Elective ¹	1
	SEMESTER CREDIT HOUF	RS 14
SECO	ND YEAR Spring Semester	
COSC 275	Estimating I	3
Creative Arts/I	CD ²	3
Select one of th	e following:	
CHEM 119	Fundamentals of Chemistry I	4
GEOL 101 & GEOL 102	Principles of Geology & Principles of Geology Lab	4
POLS 207	Government/Political Science	3
MGMT 209	Business, Government, and Society ³	3
	SEMESTER CREDIT HOUF	RS 16
THI	RD YEAR Fall Semester	
COSC 321	Structural Systems I	3
COSC 325	Mechanical, Electrical, and Plumbing Systems in Construction I	3
COSC 301	Construction Surveying	3
COSC 375	Estimating II	3
COSC Elective		3
	SEMESTER CREDIT HOUR	RS 15

ISTING	CLASS	CREDITS
Т	HIRD YEAR Spring Semester	
COSC 475	Construction Project Planning	3
COSC 463	Construction Law and Ethics	3
COSC 353	Construction Project Management	3
COSC Electiv	e ⁵	3
Language, Pl	nilosophy, and Culture	3
	SEMESTER CREDIT H	OURS 15
FOL	JRTH YEAR Fall Semester	
COSC 494	Internship ⁶	7
MGMT 309	Survey of Management	3
FINC 409	Survey of Finance Principles ⁷	3
	SEMESTER CREDIT H	OURS 13
FOL	JRTH YEAR Spring Semester	
COSC 477	Construction Project Controls	3
COSC 465	Advanced Topics in Construction Law	3
COSC Capsto	one ⁸	3
COSC Techni	cal Elective	3
COSC Electiv	e	3

^{*}Subject to change

⁵ Select from COSC 326 - MEP 2, COSC 421 - Structures 2, COSC 450 - Facility Management Principles & Practices, COSC 495 - Industrial Construction (Prerequisite: COSC 375 - Fall Semester Only), COSC 461 - Building Information Model System, COSC 464 - Construction Safety II (Prerequisite: COSC 364), COSC 489 - Special Topics, COSC 491 - Research.

A grade of C or better is required in all College of Architecture courses (ARCH, ARTS, CARC, COSC, ENDS, LAND, URPN and VIST) to satisfy Construction Science degree requirements.



¹ Select from University Core curriculum - Life and Physical courses (minimum 1 credit hour; e.g. KINE 120).

² Select from ARTS 150, ENDS 101, ARCH 249, ARCH 250, ARCH 350.

³The prerequisite to the courses are U2 classification or higher.

 $^{^4} Select from University Core curriculum (icd.tamu.edu) or see approved courses from adviser$

⁶ Internship must be fall or spring semester. No courses should be taken at Texas A&M during an official internship.

 $^{^{7}}$ 300-400 level business courses <u>MUST</u> be taken at Texas A&M. A student does not need to be in upper level to take these courses. The prerequisite to these courses are U3 or U4 classification.

⁸ Select from COSC 440 - Interdisciplinary Capstone, COSC 441 - Residential Capstone, COSC 442 - Commercial Capstone, COSC 443 - Industrial Capstone (Spring Semester Only), COSC 446 - Specialty Capstone. Capstone <u>MUST</u> be taken last semester. A student's capstone preference is <u>NOT</u> guaranteed.

LANDSCAPE ARCHITECTURE

WHAT IS LANDSCAPE ARCHITECTURE?

Landscape architecture is the profession providing landscape planning, design, and management services to enhance and protect natural and built environments. Landscape architects plan and design places for the health, safety, and welfare of citizens through systematic decision-making that integrates science, art, and technology. Our graduates have gained distinction for projects such as residential communities, private gardens, urban designs, college campuses, park facilities, regional landscape planning, etc.

Consistently ranked in the top 10 landscape architecture programs in the country, the Bachelor of Landscape Architecture program at Texas A&M

University is the oldest in the state and one of the oldest in the Southwest. Our mission is to prepare students to become professional landscape architects in private and public sector practice and to produce graduates motivated to be leaders in the field and life-long learners.

To accomplish this, students take project-based studio classes that connect the classroom to the professional world by engaging in real world issues. The studio method of teaching fosters innovation, assessment, and professional judgment. Graduates from the four-year accredited professional degree program are prepared for employment in landscape architecture, engineering, architecture or planning firms, or with government agencies.

Landscape architecture students can spend one semester studying abroad or completing an internship. Students studying abroad travel to Bonn, Germany and take 9-12 hours of studio-based classes. Students on an internship spend a semester applying their landscape knowledge by working for landscape architecture firms around the country.

- Environmental and ecological sciences
- Land surveying and grading
- Hydrology and stormwater management
- Advanced 2D and 3D
 visualization and rendering
- Land use and spatial analytics
- Land form arrangement and programming

ANDSCAPE ARCHITECTURE

CATALOG 143 (2020-2021

PROGRAM SEMESTER CURRICULUM'

LISTING	CLASS	CREDITS
	FIRST YEAR Fall Semester	
LAND 101	Introduction to Landscape Architectural Practice	1
LAND 111	Landscape Architecture Communications I	3
ENGL 104	Composition and Rhetoric	3
MATH 140	Mathematics for Business and Social Sciences	3
URPN 220	Digital Communication I	3
RENR 205	Fundamentals of Ecology	3
First Year E	xperience	0
	SEMESTER CREDIT HOUF	RS 16
	FIRST YEAR Spring Semester	
LAND 112	Landscape Architecture Communications II	3
ARCH 250	Survey of World Architecture History II	3
MATH 142	Business Calculus	3
Life and Ph	ysical Sciences Core Curriculum	4
General Ele	ctive (Upper Level)**	3
	SEMESTER CREDIT HOUF	RS 16
	SECOND YEAR Fall Semester	
LAND 211	Landscape Design I	3
LAND 240	History of Landscape Architecture	4
LAND 231	Landscape Construction I	4
POLS 206	American National Government	3
HORT 306	Trees & Shrubs for Sustainable Built Environments	3
	SEMESTER CREDIT HOUF	RS 17
	SECOND YEAR Spring Semester	
LAND 212	Landscape Design II	4
LAND 232	Landscape Construction II	3
RENR 215	Fundamentals of Ecology – Lab	1
HORT 308	Plants for Sustainable Landscapes	3
History Cor	e Curriculum	3
Computer E	Elective	3
	SEMESTER CREDIT HOUF	RS 17
	THIRD YEAR Fall Semester	
LAND 311	Landscape Design III	5
LAND 301	Landscape Architecture Theory	3
ENGL 210	Technical and Business Writing	3
History Cor	e Curriculum	3
URPN Elect	ive**	3
	SEMESTER CREDIT HOUF	RS 17

LISTING	CLASS CR	EDITS
THI	RD YEAR Spring Semester	
POLS 207	State and Local Government	3
LAND 312	Landscape Design IV	5
LAND 241	Landscape Architecture in Architecture	3
LAND 331	Landscape Construction III	4
URPN 202	Building Better Cities	3
	SEMESTER CREDIT HOURS	18
MID-S	EMESTER Summer Semester	
LAND 484	Summer Internship	0
	SEMESTER CREDIT HOURS	0
FOUR	TH YEAR Fall Semester	
Study Abroad (Se	elect one of the following):	
CARC 301	Field Studies in Design Innovation	6
or LAND 494	Internship	6
	courses. If taking Internship, the & PHIL 314 must be added to different	
General Elective	e (Upper Level)**	3
PHIL 314	Environmental Ethics	3
	SEMESTER CREDIT HOURS	12
FOUR	TH YEAR Spring Semester	
KINE 120	The Science of Basic Health and Fitness	1
LAND 412	Landscape Design VI	5
LAND 431	Professional Practice	3
General Elective	**	3
URPN Elective**		3
	SEMESTER CREDIT HOURS	15
	TOTAL SEMESTER CREDIT HOURS	128

^{*}Subject to change

Semester away can be fulfilled by Study Abroad or study at an approved other university (12 hours) or Internship (6 hours).

For Study Abroad students will take CARC 301, CARC 311, and CARC 331. Other university courses will be approved individually through advisor.

For Internship Students will register for LAND in 4th year, fall semester. Approved PHIL elective course and an upper level General Elective must be taken in semesters other than fall, 4th year.

Any student transferring or changing majors into Landscape Architecture should understand that the program consists of 4 years of sequential studio courses, with the sequence beginning in a fall semester. It will take at least 4 years to complete the curriculum. Therefore, students should have less than 60 hours total to avoid going over the state hour limit.



^{**} A grade of C or better is required in courses under major coursework and supporting coursework.

POLICY TRACK

WHAT IS URBAN & REGIONAL PLANNING?

Urban Planning is a profession concerned with the design and development of the built environment. Urban planners understand the different elements that must exist to create a viable community and have the skills to address its challenges. They collaborate with government officials, business leaders, and citizens to help build communities following evidence-based choices of where and how people work and live.

The Bachelor of Science in Urban and Regional Planning degree program is

based in the Department of Landscape Architecture and Urban Planning. The

Policy Track equips students for entry-level positions in planning related fields and prepares them for graduate studies in fields such as urban planning and land development. The core curriculum, designed to teach students the knowledge and skills to deal effectively with the opportunities and challenges inherent in the development, growth and culture of neighborhoods, cities, and regions, is based on theoretical training in the natural, physical, and social sciences. Students acquire skills that enable them to apply these theories to develop communities, cities, and regions which are safe, healthy, and sustainable.

Critical thinking and analytical skills are emphasized for problem-solving at the community and regional scale. Classroom service-learning experiences enable graduates to more reliably and realistically assess complex community problems, develop planning and policy solutions for overcoming those problems, and evaluate the outcomes of programs and policies in meeting community and regional needs.

- Community development
- Transportation planning
- Housing
- Economic development
- Planning management/ finance
- Parks and recreation
- Historic preservation
- Community activism/ empowerment

PROGRAM SEMESTER CURRICULUM'

STING	CLASS		CREDITS
F	IRST YEAR	Fall Semester	
ENGL 104	Composit	ion and Rhetoric	3
MATH 140	Finite Ma	th	3
POLS 206	American	National Government	3
LAND 101	Intro to L	andscape Architectural Practice	1
URPN 201	The Evolv	ing City ¹	3
History Unive	ersity Core C	urriculum	3
First Year Exp	perience		0
		SEMESTER CREDIT HOU	JRS 16
F	IRST YEAR	Spring Semester	
ARCH 250	Survey of	World Architecture History II	3
MATH 142	Business	Calculus	3
POLS 207	State & Lo	ocal Government	3
ECON 202	Principles	of Economics	3
URPN 202	Building E	Better Cities	3
		SEMESTER CREDIT HOU	JRS 15
SEC	OND YEAR	Fall Semester	
URPN 210	Urban An	alytical Methods	3
RENR 205	Fundame	ntals of Ecology	3
LAND 240	History of	Landscape Architecture	3
General Elect	tive		3
Social and Be (SOCI 205 pre		ences Core Curriculum	3
		SEMESTER CREDIT HOU	JRS 15
SEC	OND YEAR	Spring Semester	
URPN 310	Urban An	alytical Methods II	3
Life and Phys	ical Science	s Core Curriculum	4
History Unive	ersity Core C	urriculum	3
Sociology Re	quirement (ı	upper level)	3
General Elect	tive		3
		SEMESTER CREDIT HOL	JRS 16
TI	HIRD YEAR	Fall Semester	
ENGL 210	Technical	Writing	3
RENR 215	Ecology L	ab	1
URPN 220	Digital Co	mmunications	3
URPN 302	Planning	Law	3
RENR 375	Conserva	tion of Natural Resources	3
Concentratio			3

LISTING **CLASS CREDITS**

	SEMESTER CREDIT HOURS Spring Semester d Regional Planning Studio plementation	1 4
Seminar Urban an Policy Imp	d Regional Planning Studio	4
Urban an	· · · · · · · · · · · · · · · · · · ·	4
Policy Imp	· · · · · · · · · · · · · · · · · · ·	
	plementation	_
Intro to G		3
	IS¹	3
Land Dev	elopment¹	3
ny core scie	ence	1
	SEMESTER CREDIT HOURS	15
RTH YEAR	Fall Semester	
,		6
or 2 Conce	ntration Electives	6
	SEMESTER CREDIT HOURS	6 OR 12
RTH YEAR	Spring Semester	
Public an	d Private Infrastructure Funding	3
Urban an	d Regional Planning Capstone	5
Elective**		3
ve		4
	SEMESTER CREDIT HOURS	15
	Internship Field Stud or 2 Conce RTH YEAR Public and Urban an Elective**	Internship or Field Studies in Design Innovation or 2 Concentration Electives SEMESTER CREDIT HOURS RTH YEAR Spring Semester Public and Private Infrastructure Funding Urban and Regional Planning Capstone Elective**

^{*}Subject to change

A grade of C or better is required in courses under major coursework and supporting coursework..

TOTAL SEMESTER CREDIT HOURS 120

For Study Abroad students will take CARC 301, CARC 311, and CARC 331. Other university courses will be approved individually through advisor.

For Internship Students will register for URPN 494 in 4th year, fall semester. Two approved Supporting Coursework courses must be taken in semesters other than fall, 4th year.

URPN 494 in 4th year, fall semester. Two approved Supporting Coursework courses must be taken in semesters other than fall, 4th year.



^{**}See advisor for a list of approved courses.

URBAN SEEGN TRACK

WHAT IS URBAN & REGIONAL PLANNING?

Urban Planning is a profession concerned with the design and development of the built environment. Urban planners understand the different elements that must exist to create a viable community and have the skills to address these challenges. They collaborate with government officials, business leaders, and citizens to help build communities following evidence-based choices of where and how people work and live.

The Bachelor of Science in Urban and Regional Planning degree program is based in the Department of Landscape Architecture and Urban Planning. The Urban Design Track teaches students for entry-level positions in planning allied fields and prepares them for graduate studies in fields such

as urban planning and urban design. The core curriculum, designed to teach students the knowledge and skills to deal effectively with the opportunities and challenges inherent in the development, growth and culture of neighborhoods, cities, and regions, integrates the many aspects of place-making with emphasis on social justice, environmental stewardship, economic viability, and practical design.

In urban design, planners apply critical thinking and analytical skills to create workable arrangements and designs of the buildings, public spaces, transport systems, land uses, open spaces, services, and amenities that give form and character to community development of the built environment.

Classroom and service-learning experiences enable graduates to more reliably and realistically assess complex community problems, develop design solutions for overcoming those problems, and project the outcomes of designed environments in meeting community and regional needs.

- GeoDesign
- Spatial analytics
- Land use science
- Community development
- Transportation planning
- Housing
- Economic development



PROGRAM SEMESTER CURRICULUM

STING	CLASS		CREDITS
	FIRST YEAR	Fall Semester	
ENGL 104	Composit	ion and Rhetoric	3
MATH 140	Finite Ma	th	3
LAND 111	Landscap	e Architecture Communications I	3
LAND 101	Intro to L	andscape Architectural Practice ¹	1
URPN 220	Digital Co	mmunication	3
RENR 205	Fundame	ntals of Ecology	3
First Year E	xperience		0
		SEMESTER CREDIT HO	URS 16
	FIRST YEAR	Spring Semester	
ARCH 250	Survey of	World Architecture History II	3
MATH 142	Business	Calculus	3
LAND 112	Landscap	e Architecture Communications III	3
Life & Phys	ical Science Co	ore Curriculum	4
General Ele	ective (Upper l	_evel)	3
		SEMESTER CREDIT HO	URS 16
SI	COND YEAR	Fall Semester	
LAND 240	History of	Lanscape Architecture	3
LAND 211	Landscap	e Design I	4
LAND 231	Landscap	e Construction I	4
POLS 206	American	& National Government	3
HORT 306	Trees an Environm	d Shrubs for Sustainable Built ents	3
		SEMESTER CREDIT HO	URS 17

**For	internship,	2	concentration	electives	must	be	added	to
differe	ent semester	s						

¹ Must make a grade of C or better.

³ Semester Away: May be satisfied by study abroad, at another university, internship, or special arrangement by advisor or instructor. Concentration electives may be taken during summer, online, distance education, at another university or college, or at a study abroad university.

ISTING	CLASS CF	REDITS
SECO	ND YEAR Spring Semester	
LAND 212	Landscape Design II	4
LAND 232	Landscape Construction II	3
HORT 308	Plants for Sustainable Landscapes	3
RENR 215	Fundamentals of Ecology Lab	1
History Univer	sity Core Curriculum	3
Computer Elec	ctive (URPN 325 or320)	3
	SEMESTER CREDIT HOURS	17
TH	IRD YEAR Fall Semester	
LAND 311	Landscape Design III	5
ENGL 210	Technical Writing	3
LAND 210	Landscape Architecture Theory	3
URPN Elective		3
History Univer	sity Core Curriculum	3
	SEMESTER CREDIT HOURS	17
TH	IRD YEAR Spring Semester	
POLS 207	State & Local Government	3
LAND 241	Landscape Architecture in America	3
LAND 312	Landscape Design IV	5
LAND 331	Landscape Construction III	4
URPN 202	Building Better Cities	3
	SEMESTER CREDIT HOURS	18
FOUI	RTH YEAR Fall Semester	
URPN 494 or CARC 301	Internship ^{1, 5} or Field Studies in Design Innovation ^{1, 4}	6
Study Abroad	or 2 Concentration Electives 1,2,6**	6
	SEMESTER CREDIT HOURS	6 OR 1
FOUI	RTH YEAR Spring Semester	
URPN 331	Public and Private Infrastructure Funding ¹	3
URPN 409	Urban Design Studio	5
KINE 120	The Science of Basic Health and Fitness	1
Concentration	Elective Urban Infrastructure	3
General Electiv	ve	3
	SEMESTER CREDIT HOURS	15

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TOTAL SEMESTER CREDIT HOURS 120

² See advisor for a list of approved courses.

 $^{^{4}}$ Study abroad course. If electing to study abroad, must take CARC 311 and CARC 331 as concentration electives.

⁵ If a student takes URPN 494 in Fall of 4th year, 6 hours of concentration electives must be added to different semesters other than this fall.

⁶ This course will be selected in consultation with the student's advisor. If not participating in study abroad, 3 hours must come from approved course in International and Cultural Diversity.

UNIVERSITY STUDIES GLOBAL ARTS, PLANNING, DESIGN, & CONSTRUCTION

WHAT IS UNIVERSITY STUDIES?

University Studies – Global Arts, Planning, Design & Construction – is a unique degree plan that is made just for you! With a foundational knowledge of global art, planning, design and construction along with the two minors you select, each degree plan is as unique as you are.

University Studies degree options at Texas A&M University are offered by each college. This format provides students flexibility to create individualized degree plans, and provides additional opportunities for access to courses in colleges that may have restricted admission.

AREAS OF INTEREST

- Construction
- Urban planning
- Graphic design
- Surveying and mapping
- Geography
- Environmental science
- Land development
- Real estate

The College of Architecture offers a University Studies Degree concentration or minor in architecture. The 25-credit-hour architecture concentration is uniquely administered by the college, rather than by a department, and includes coursework in all four college departments.

A required five-week summer study abroad program gives students the opportunity to learn from industry-related faculty in foreign countries. 15-week programs are also available for more in-depth study.

UNIVERSITY STUDIES

CATALOG 143 (2020-2021

PROGRAM SEMESTER CURRICULUM

LISTING	CLASS	CREDITS
DESIGN		
Select one of th	ne following:	
ARCH 249	Survey of World Architecture History I	3
ARCH 250	Survey of World Architecture History II	3
ARTS 111	Drawing I	3
ARTS 149	Survey of Art History I	3
ARTS 150	Survey of Art History II	3
COSC 175/ AREN 175	Construction Graphics Communication	3
ENDS 101	Design Process	3
GLOBAL AND C	ULTURAL DISCOURSE	
CARC 101	Cultural and Social Issues in the Natural, Built, and Virtual Environment	3
CONSTRUCTIO	N	
Select one of th	ne following:	
COSC 253	Construction Materials Methods I	3
COSC 153	Introduction to the Construction Industry	3
LEADERSHIP		
ALED 340	Theory of Leadership	3
URBAN PLANN	ING	
Select one of th	ne following:	
URPN 202	Building Better Cities	3
URPN 201	The Evolving City	3
STUDY ABROAL) ²	
CARC 481	Seminar	1
CARC 311	Field Studies in Design Communication ¹	3
CARC 331	Field Studies in Design Philosophy ¹	3
DIRECTED ELEC	TIVES	
College of Arc	hitecture Course 300 - 499	3
COLLEGE AND	UNIVERSITY REQUIREMENTS	

LISTING	CLASS	CREDITS
POLS 206	American National Government	3
POLS 207	State and Local Government	3
American History		6
Communicat	ion	6
Creative Arts		3
Mathematics	3	6
Language, Ph	nilosophy, and Culture	3
Life and Phys	sical Sciences	9
Social and Be	ehavior Sciences	3
MINOR 1 ³		
(University a	pproved minors)	15-18
MINOR 2 ³		
(University a	pproved minors)	15-18
GENERAL ELEC	CTIVES 4	
		17-23

^{*}Subject to change

A 2.0 GPA is required in all major field of study courses.

Two writing-intensive courses are required.

One course must meet the $\underline{\text{International}}$ and $\underline{\text{Cultural Diversity}}$ requirement.

TOTAL SEMESTER CREDIT HOURS 120

One course must meet the **Cultural Discourse** requirement.

- ² Mandatory study abroad
- ³ Both minors cannot be in the College of Architecture
- ⁴ 6 hours must be upper-level general electives
- *Subject to change

USAR CONTACTS

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¹ Or approved study abroad course



Whether through an artist's sketch or computer-generated animation, visual media informs, entertains, and communicates ideas. The interdisciplinary Bachelor of Science in Visualization program engages visual, intuitive, and analytical strategies in design problem-solving for the purpose of visual communication.

The visualization program is structured to develop a student's artistic, scientific, and technical abilities in a studio learning environment. Coursework and instruction provide students a specialized skill set for creating visual experiences in graphic design, interactivity, and animation/visual effects. This broad foundation of knowledge and quality of problem-solving skills provide students with opportunities to pursue careers in the fields of animation, visual effects, game development, graphic design, simulation, and data visualization for architectural, engineering, and medical fields.

AREAS OF INTEREST

- Interactive media design
- Visual effects
- CG lighting/shading
- Character technical directing
- Game design
- Technical art
- Web development
- CG pipeline development

A required semester away provides the opportunity to study abroad in one of several foreign studies programs, study at another university, or serve an internship in an industry related to the student's area of interest.

V | S | A | | Z A T | D | N | C A T A L O G | 1 4 3 | (2 0 2 0 - 2 0 2 1)

PROGRAM SEMESTER CURRICULUM'

LISTING	CLASS	CREDITS
F	FIRST YEAR Fall Semester	
ARTS 115	Drawing for Visualization	3
ENGL 104	Composition and Rhetoric	3
PHYS 201	College Physics	4
VIST 105	Principles of Design I	3
VIST 131	First Year Seminar	1
VIST 284	Visualization Techniques	1
	SEMESTER CREDIT H	OURS 15
F	FIRST YEAR Spring Semester	
ARTS 149	Art History Survey I	3
MATH 151	Engineering Mathematics I	4
VIST 106	Principles of Design II	3
VIST 170	Introduction to Visualization Computin Elements	ng 1
VIST 284	Visualization Techniques	1
POLS 206	Government/Political Science	3
	SEMESTER CREDIT H	OURS 15
SEC	OND YEAR Fall Semester	
ARTS 212	Life Drawing	3
MATH 152	Engineering Mathematics II	4
VIST 205	Principles of Design III	3
VIST 270	Computing for Visualization I	4
Visualization	Directed Elective ¹	3
	SEMESTER CREDIT H	OURS 17

^{*}Subject to change

5 Select 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.

A grade of C or better must be made in all College of Architecture courses (ARCH, ARTS, CARC, COSC, ENDS, LAND, LDEV, VIST, URPN

STING	CLASS	CREDITS
SECO	OND YEAR Spring Semester	
ARTS 150	Art History Survey II	3
VIST 206	Visual Studies Studio I	3
VIST 235	Theory and Practice in Visualization	2
VIST 271	Computing Visualization II	4
VIST 284	Visualization Techniques	1
Traditional Art	tS ²	3
	SEMESTER CREDIT HOU	RS 16
TH	IRD YEAR Fall Semester	
ARTS 349	The History of Modern Art	3
VIST 305	Visual Studies Studio II	3
VIST 339	Research Techniques in Visualization	3
VIST 375	Foundations in Visualization	3
Life and Physi	cal Sciences	4
	SEMESTER CREDIT HOU	RS 16
TH	IRD YEAR Spring Semester	
CARC 301 or VIST 494	Field Studies in Innovation ³ or Internship	6
Language, Philosophy, and Culture ³		3
Free Elective ^{3, 4}		3
	SEMESTER CREDIT HOU	RS 12
FOUI	RTH YEAR Fall Semester	
HIST 105	History of the United States	3
VIST 405	Visual Studies Studio III	3
VIST 432 or VIST 441	Applied Perception or Scientific and Technological Developments in Visual Arts	3
VIST439	Capstone Proposal Development	1
Digital Arts⁵		3
Life and Physical Sciences		1
	SEMESTER CREDIT HOU	RS 14
FOUI	RTH YEAR Spring Semester	
HIST 106	History of the United States	3
VIST 409	Capstone Studio	3
		3
POLS 207	State & Local Government	3
POLS 207 Communication		3
Communication		

TOTAL SEMESTER CREDIT HOURS 120

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.

Contact:

Jill Raupe | Jraupe@arch.tamu.edu



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

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

³ Semester 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.

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



College of
Architecture