# ANIMATION GAME DESIGN -B.S.

College of Applied and Technical Studies www.kent.edu/cats

# **About This Program**

Ready to turn your passion for games and animation into a profession? Kent State University's Animation and Game Design bachelor's degree program is the perfect place to start. With a cutting-edge curriculum and access to state-of-the-art technology, you'll be equipped with the skills you need to make your mark in the industry. Read more...

## **Contact Information**

- Program Coordinator: Chris Totten | ctotten@kent.edu | 330-308-7567
- Speak with an Advisor
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus
- Chat with an Admissions Counselor. Kent Campus | Regional Campuses

## **Program Delivery**

- Delivery:
  - In person
- Location:
  - Kent Campus
  - Stark Campus
  - Tuscarawas Campus

# Examples of Possible Careers and Salaries\*

#### Artists and related workers, all other

- -0.2% little or no change
- 13,100 number of jobs
- \$65,800 potential earnings

#### Special effects artists and animators

- 4.1% about as fast as the average
- 67,500 number of jobs
- \$77,700 potential earnings

## Accreditation

National Association of Schools of Art and Design (NASAD)

\* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics'

Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

# **Admission Requirements**

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**First-Year Students on the Kent Campus:** First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

**First-Year Students on the Regional Campuses:** First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

**International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information, visit the admissions website for international students.

**Transfer Students:** Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

**Former Students:** Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the program's Coursework tab.

## Program Requirements Major Requirements

<i>,</i> ,		
Code		Credit Hours
Major Requirements (	courses count in major GPA)	
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3
AGD 34003	ANIMATION THEORY	3
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) <sup>1</sup>	3
or AGD 43096	INDIVIDUAL INVESTIGATION IN ANIMATION AND GAM DESIGN	E

GD 49999	1		
	SENIOR CAPSTONE PROJECT (ELR) (WIC) <sup>1</sup> 3	MUS 21221	AU
or TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	THEA 11303	TH
/lajor Electives, cho	ose from the following: <sup>2</sup> 24	Additional Require	ments
AGD 11003	SOLID MODELING	ARTH 22006	AR
AGD 21092	ANIMATION AND GAME DESIGN PRACTICUM		(KI
	(ELR)	or ARTH 22007	AF
AGD 22000	TWO-DIMENSION COMMUNICATION	or VCD 13000	VIS
AGD 22001	MODELING FOR ARCHITECTURE	ARTS 14000	DF
AGD 22005	MULTIMEDIA AND GAME DESIGN	ARTS 14001	DF
AGD 22095	SPECIAL TOPICS IN ANIMATION AND GAME DESIGN	COMM 15000	IN (K.
AGD 23030	GAME PROTOTYPING	MATH 11010	AL
AGD 33010	COMPETITIVE GAMING	MATH 11022	TR
AGD 33095	SPECIAL TOPICS ANIMATION AND GAME DESIGN	UC 10001 Kent Core Compos	FL ition
AGD 34000	CHARACTER ANIMATION	Kent Core Humanit	
AGD 34001	ANIMATION PROJECT	Kent Core Social S	
AGD 34005	ENVIRONMENTAL GAME DESIGN	Kent Core Basic So	
AGD 43000	INTERACTIVE GAME DESIGN	General Electives (	
AGD 43001	ANIMATION PRODUCTION AND VISUAL	hours, including 39	
	EFFECTS	Concentrations	
AGD 43025	REAL-TIME RENDERING FOR ANIMATION	Choose from the fo	ollowin
AGD 43092	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC) <sup>1</sup>	Animation	
AGD 43096	INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN	Game Design Minimum Total Cre	edit Ho
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	1	
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	A minimum C	grade
ART 10022	2D COMPOSITION	requirement.	
ART 10023	3D COMPOSITION	<sup>2</sup> Students shou	ld me
AITI 10025	3D COMI OSTITION		
CCI 12001	PHOTOGRAPHY		
CCI 12001 CS 13001	PHOTOGRAPHY COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	Animation Co	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	Animation Co	
	COMPUTER SCIENCE I: PROGRAMMING AND		Tit
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL	Code	Tit uireme
CS 13001 CS 13011	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING	Code Concentration Req	Tit uireme S0
CS 13001 CS 13011	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED	Code Concentration Req AGD 11003	Tit uireme SO CF
CS 13001 CS 13011 CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	Code Concentration Req AGD 11003 AGD 34000	Tit uireme SC CF AN
CS 13001 CS 13011 CS 13012 DI 10010	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES	Code Concentration Req AGD 11003 AGD 34000 AGD 34001	Tit uireme SC CF AN AN
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE	Code Concentration Req AGD 11003 AGD 34000 AGD 34001	Tit uireme SC CF AN EF
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001	Tit uireme SC CH AN EF RE
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025	Tit uireme SC CH AN EF RE esign (
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20002	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION TECHNICAL COMPUTING INTRODUCTION TO TECHNICAL WRITING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre	Tit uireme SC CF AN EF RE esign (
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20002 ENG 20021	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D	Tit uireme SC CH AN EF RE esign ( edit Hoo
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20021 ENG 20021 ENG 33010	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION TECHNICAL COMPUTING INTRODUCTION TO TECHNICAL WRITING INTRODUCTION TO CREATIVE WRITING COMPUTER HARDWARE FOR ANIMATION	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre	Tit uireme SC CH AN EF RE esign ( edit Hor
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20021 ENG 20021 ENG 33010 ENTR 27056	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIP	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Game Design	Tit uireme SC CH AN EF RE esign ( edit Ho
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20002 ENG 20021 ENGT 33010 ENTR 27056 FDM 10023	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALS	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Game Design	Tit uireme SC CH AN EF RE resign ( edit Ho Tit
CS 13001         CS 13011         CS 13012         DI 10010         DI 20020         DI 20100         EERT 32003         ENG 20002         ENG 20021         ENGT 33010         ENTR 27056         FDM 10023         FDM 10024         FDM 10140	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION TECHNICAL COMPUTING INTRODUCTION TO TECHNICAL WRITING INTRODUCTION TO CREATIVE WRITING COMPUTER HARDWARE FOR ANIMATION INTRODUCTION TO ENTREPRENEURSHIP FASHION VISUALS FASHION VISUALS LABORATORY FOUNDATIONS OF FASHION DRAWING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Game Design Code	Tit uireme SCC- AN EF RE essign ( edit Hoo t CON Tit uireme
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20002 ENG 20021 ENG 20021 ENG 33010 ENTR 27056 FDM 10024 FDM 10024 FDM 10140 FDM 20013	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION TECHNICAL COMPUTING INTRODUCTION TO TECHNICAL WRITING INTRODUCTION TO TECHNICAL WRITING COMPUTER HARDWARE FOR ANIMATION INTRODUCTION TO ENTREPRENEURSHIP FASHION VISUALS FASHION VISUALS LABORATORY FOUNDATIONS OF FASHION DRAWING HISTORY OF COSTUME	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Game Design Code Concentration Req	Tit uireme SC CF AN AN EF RE RE RE RE RE RE RE RE RE RE RE RE RE
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20021 ENG 20021 ENG 33010 ENTR 27056 FDM 10023 FDM 10024 FDM 10140 FDM 20013 MDJ 10009	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING SURVEY OF DESIGN INNOVATION NODES BE SMARTER THAN YOUR SMARTPHONE INTRODUCTION TO DESIGN INNOVATION TECHNICAL COMPUTING INTRODUCTION TO TECHNICAL WRITING INTRODUCTION TO CREATIVE WRITING COMPUTER HARDWARE FOR ANIMATION INTRODUCTION TO ENTREPRENEURSHIP FASHION VISUALS FASHION VISUALS LABORATORY FOUNDATIONS OF FASHION DRAWING HISTORY OF COSTUME ELEMENTS OF FILM, TV AND ANIMATION	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43005 Animation Game D Minimum Total Cree Game Design Code Concentration Req AGD 22001	Tit uireme SC CF AN AN EF RE esign ( AN Tit Uireme MO MI
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20021 ENG 20021 ENG 20021 ENG 33010 ENTR 27056 FDM 10023 FDM 10024 FDM 10024 FDM 10140 FDM 20013 MDJ 10009	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43005 Animation Game D Minimum Total Cre Game Design Code Concentration Req AGD 22001 AGD 22005	Titt uuiremee SCC AN AN EF REE eesign ( AN Tit Uuiremee MC MI CCC
CS 13001 CS 13011 CS 13012 DI 10010 DI 20020 DI 20100 EERT 32003 ENG 20002 ENG 20021 ENG 20021 ENG 33010 ENTR 27056 FDM 10023 FDM 10024 FDM 10024 FDM 10140 FDM 20013 MDJ 10009 MDJ 20001 MDJ 20011	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)PRODUCTION FUNDAMENTALS	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Code Concentration Req AGD 22001 AGD 22001 AGD 22005 AGD 33010	Tit uireme SC CH AN EF RE lesign ( cdit Hoo Tit uireme MC ML CC GA
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)PRODUCTION FUNDAMENTALSSTORY FOR PICTURE	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 43025 Animation Game D Minimum Total Cre Code Concentration Req AGD 22001 AGD 22005 AGD 33010 AGD 33030	Tit uireme SC CH AN EF RE esign ( edit Hoo Tit uireme MC ML CC GA
CS 13001         CS 13012         CS 13012         DI 10010         DI 20020         DI 20100         ERT 32003         ENG 20002         ENG 20021         ENG 33010         FDM 10024         FDM 10140         FDM 10140         FDM 20013         MDJ 20001         MDJ 20011         MDJ 23004         MERT 12000	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)PRODUCTION FUNDAMENTALSSTORY FOR PICTUREENGINEERING DRAWING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 430025 Animation Game D Minimum Total Cre Code Concentration Req AGD 22001 AGD 22005 AGD 33010 AGD 33030 AGD 34005	Tit uireme SO CH AN EF RE esign ( edit Hoo Tit uireme MO MU CCC GA EN IN
CS 13001         CS 13011         CS 13012         DI 10010         DI 20020         DI 20100         ERT 32003         ENG 20002         ENG 20021         ENG 20021         FDM 10023         FDM 10024         FDM 10140         FDM 20013         MDJ 20001         MDJ 23004         MERT 12000         MERT 12001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGOUDTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)PRODUCTION FUNDAMENTALSSTORY FOR PICTUREENGINEERING DRAWINGCOMPUTER-AIDED DESIGN	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 430025 Animation Game D Minimum Total Cre Code Concentration Req AGD 22001 AGD 22005 AGD 33010 AGD 33030 AGD 34005 AGD 43000	Tit uireme SO CH AN EF RE esign ( edit Hoo Tit uireme MO MU CCC GA EN IN
CS 13001         CS 13011         CS 13012         DI 10010         DI 20020         DI 20100         ERT 32003         ENG 20002         ENG 20002         ENG 20021         ENG 20021         FDM 10023         FDM 10024         FDM 10140         FDM 20013         MDJ 20001         MDJ 20011         MDJ 23004         MERT 12000	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVINGCOMPUTER SCIENCE IA: PROCEDURAL PROGRAMMINGCOMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMINGSURVEY OF DESIGN INNOVATION NODESBE SMARTER THAN YOUR SMARTPHONEINTRODUCTION TO DESIGN INNOVATIONTECHNICAL COMPUTINGINTRODUCTION TO TECHNICAL WRITINGINTRODUCTION TO CREATIVE WRITINGCOMPUTER HARDWARE FOR ANIMATIONINTRODUCTION TO ENTREPRENEURSHIPFASHION VISUALSFASHION VISUALS LABORATORYFOUNDATIONS OF FASHION DRAWINGHISTORY OF COSTUMEELEMENTS OF FILM, TV AND ANIMATIONMEDIA, POWER AND CULTURE (DIVD) (KSS)PRODUCTION FUNDAMENTALSSTORY FOR PICTUREENGINEERING DRAWING	Code Concentration Req AGD 11003 AGD 34000 AGD 34001 AGD 43001 AGD 430025 Animation Game D Minimum Total Cre Code Concentration Req AGD 22001 AGD 22005 AGD 33010 AGD 33030 AGD 34005 AGD 43000	Tit uireme SO CH AN EF RE esign ( edit Hoo Tit uireme MC ML CO GA EN IN

MUS 21221	AUDIO RECORDING I	
THEA 11303	THE ART OF ACTING	
Additional Requirem	ents (courses do not count in major GPA)	
ARTH 22006	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA)	3
or ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
or VCD 13000	VISUAL DESIGN THINKING	
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Compositi	on	6
Kent Core Humanitie	es and Fine Arts (minimum one course from each)	9
Kent Core Social Sci	ences (must be from two disciplines)	6
Kent Core Basic Scie	ences (must include one laboratory)	6-7
`	tal credit hours depends on earning 120 credit ıpper-division credit hours)	5
Concentrations		
Choose from the foll	owing:	18
Animation		
Game Design		
Minimum Total Cred	it Hours:	120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

Students should meet with an advisor when selecting electives.

## **Animation Concentration Requirements**

Code	Title	Credit Hours
Concentration Requi	irements (courses count in major GPA)	
AGD 11003	SOLID MODELING	3
AGD 34000	CHARACTER ANIMATION	3
AGD 34001	ANIMATION PROJECT	3
AGD 43001	ANIMATION PRODUCTION AND VISUAL EFFECTS	3
AGD 43025	REAL-TIME RENDERING FOR ANIMATION	3
Animation Game De	sign (AGD) Elective	3
Minimum Total Cred	lit Hours:	18

### Game Design Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requir</b>	rements (courses count in major GPA)	
AGD 22001	MODELING FOR ARCHITECTURE	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 33010	COMPETITIVE GAMING	3
AGD 33030	GAMES FOR EDUCATION	3
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
AGD 43000	INTERACTIVE GAME DESIGN	3
Minimum Total Credi	t Hours:	18

## **Graduation Requirements**

Minimum Major GPA 2.000 Minimum Overall GPA

2.000

## **Roadmaps** Animation Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AGD 12000	TWO DIMENSION GRAPHICS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Kent Core Requi	rement	3
Kent Core Requi	rement	3
Kent Core Requi	rement	3
	Credit Hours	16
Semester Two		
AGD 11003	SOLID MODELING	3
ARTH 22006 or ARTH 22007 or	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) or ART HISTORY: RENAISSANCE TO MODERN ART (KFA) or VISUAL DESIGN THINKING	3
VCD 13000		2
ARTS 14000	DRAWING I	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Requi		3
	Credit Hours	15
Semester Three		
ARTS 14001	DRAWING II	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
Major Electives		6
	Credit Hours	15
Semester Four		
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3
Major Elective		3
Kent Core Requi		3
	Credit Hours	15
Semester Five		
AGD 34000	CHARACTER ANIMATION	3
AGD 34003	ANIMATION THEORY	3
Major Elective		3
Kent Core Requi		3
General Elective		3
Semester Six	Credit Hours	15
AGD 34001	ANIMATION PROJECT	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Animation Game	e Design (AGD) Elective	3
Major Electives		6
	Credit Hours	15

#### Semester Seven

NTERNSHIP IN ANIMATION AND GAME DESIGN ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) ment Credit Hours	3 3 3 3 2 14
ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3 3 3
ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC)	3
ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES	3
ELR) (WIC) or INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN SENIOR CAPSTONE PROJECT (ELR) (WIC) or TECHNICAL AND APPLIED STUDIES	Ū
ELR) (WIC) or INDIVIDUAL INVESTIGATION IN	3
acuit flours	15
	3
	3
REAL-TIME RENDERING FOR ANIMATION	3
	3
	ANIMATION PRODUCTION AND VISUAL EFFECTS REAL-TIME RENDERING FOR ANIMATION ment ment

#### **Game Design Concentration**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AGD 12000	TWO DIMENSION GRAPHICS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10001	FLASHES 101	1
Kent Core Requi	irement	3
Kent Core Requi	irement	3
Kent Core Requi	irement	3
	Credit Hours	16
Semester Two		
ARTH 22006 or ARTH 22007 or VCD 13000	ART HISTORY: ANCIENT TO MEDIEVAL ART (KFA) or ART HISTORY: RENAISSANCE TO MODERN ART (KFA) or VISUAL DESIGN THINKING	3
ARTS 14000	DRAWING I	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective		3
Kent Core Requi	irement	3
	Credit Hours	15
Semester Three		
AGD 12001	MODELING AND TEXTURING I	3
AGD 21000	FUNDAMENTALS OF MIXED REALITY	3
AGD 22001	MODELING FOR ARCHITECTURE	3
ARTS 14001	DRAWING II	3
Major Elective		3
	Credit Hours	15
Semester Four		
AGD 22004	MODELING AND TEXTURING II	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 22010	DIGITAL SCULPTING	3
AGD 23020	GAMING AND CULTURE	3

Kent Core Requ	irement	3
	Credit Hours	15
Semester Five		
AGD 33030	GAMES FOR EDUCATION	3
AGD 34003	ANIMATION THEORY	3
Major Elective		3
Kent Core Requ	irement	3
General Elective	e	3
	Credit Hours	15
Semester Six		
AGD 33010	COMPETITIVE GAMING	3
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Electives		6
	Credit Hours	15
Semester Seve	n	
AGD 43000	INTERACTIVE GAME DESIGN	3
Major Electives		6
Kent Core Requ	irement	3
Kent Core Requ	irement	3
	Credit Hours	15
Semester Eight		
AGD 43092 or	INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) (WIC)	3
AGD 43096	or INDIVIDUAL INVESTIGATION IN	
	ANIMATION AND GAME DESIGN	
AGD 49999	SENIOR CAPSTONE PROJECT (ELR) (WIC)	
or		
TAS 4799	99 CAPSTONE (ELR) (WIC)	0
Major Elective	·	3
Kent Core Requ		6
General Elective	-	2
	Credit Hours	14
	Minimum Total Credit Hours:	120

## **University Requirements**

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered
30000 to 49999) credit hours to graduate.

Total Credit Hour Requirement	120 credit hours	
Kent Core Requirements		
Kent Core Composition (KCMP)	6	
Kent Core Mathematics and Critical Reasoning (KMCR)	3	
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course	9	

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

## **Program Learning Outcomes**

Graduates of this program will be able to:

- 1. Demonstrate current skills in two- and three-dimension modeling, animation and game design.
- 2. Apply design thinking to technological problems, including demonstrating familiarity with design thinking applicable to their professional work.
- 3. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of modeling, animation and game design.
- Demonstrate effective communication skills both verbally and in written form – with technical, business and design professionals, including effective communication as individuals and as part of a project team.
- 5. Participate in and lead multidisciplinary project teams, demonstrating theoretical and practical understanding of team dynamics.
- 6. Demonstrate appreciation for diverse cultures and individual differences and reflect that appreciation in their work.
- 7. Engage in continuous learning, as well as research and assess new ideas and information to provide the capabilities for lifelong learning.

## **Full Description**

The Bachelor of Science degree in Animation Game Design provides the key concepts, creative tools and principles of diverse skills in fundamental and advanced technical knowledge of modeling, animation and game design.

The degree program prepares students for careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Upon graduation, students have created a professional-quality portfolio to enter the field of content creators and are prepared for jobs in technical illustration, two- and three-dimension modeling, game design, animation, artistic production and exhibition. Students are guided in selecting courses that support a given concentration. They can take courses in various aspects of art, design and film/video.

The Animation Game Design major comprises the following concentrations:

• The Animation concentration involves bringing motion to still objects or displaying a sequence of still images to create the illusion of

motion or life. Animation involves more than just character motion; it includes motion graphics, video editing, special effects, cameras and video output. Students learn how to animate characters, elements of environments and graphics. Two- and three-dimension models are animated as necessary, via a combination of manual animation, procedural tools and physical simulation.

 The Game Design concentration provides the environment and content creation in two- and three-dimension models. The focus is on the design part of game environments to be used on platforms such as personal computers, smart phones and game consoles. Students learn the importance of two- and three-dimension model creation for specific games used for simulation, training, entertainment and measuring educational outcomes.