

# TECHNICAL MODELING DESIGN - A.A.S.

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

## About This Program

Design your future with the Technical Modeling and Design Associate of Applied Science program. Develop the technical and creative skills needed to thrive in today's design industry. With a focus on hands-on experience and real-world projects, this program prepares you for success in a variety of design fields. Enroll now and take the first step toward a rewarding career in design. Read more...

## Contact Information

- Program Coordinator: **Lori Bears** | lbears@kent.edu | 330-308-7438
- Speak with an Advisor
- Chat with an Admissions Counselor

## Program Delivery

- **Delivery:**
  - Fully online
  - In person
- **Location:**
  - Tuscarawas Campus

## Examples of Possible Careers and Salaries\*

### Architectural and civil drafters

- -2.5% decline
- 102,900 number of jobs
- \$57,500 potential earnings

### Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- \$64,190 potential earnings

### Drafters, all other

- 0.6% little or no change
- 15,200 number of jobs
- \$54,500 potential earnings

### Electrical and electronics drafters

- 0.5% little or no change
- 25,300 number of jobs
- \$62,100 potential earnings

### Mechanical drafters

- -8.3% decline
- 57,500 number of jobs
- \$58,270 potential earnings

\* 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.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

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 Coursework tab.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22000	TWO-DIMENSION COMMUNICATION	3
AGD 22001	MODELING FOR ARCHITECTURE	3
MERT 12000	ENGINEERING DRAWING	3
Major Electives, choose from the following:		12
AGD 21000	FUNDAMENTALS OF MIXED REALITY	
AGD 22004	MODELING AND TEXTURING II	
AGD 22010	DIGITAL SCULPTING	
AGD 22095	SPECIAL TOPICS IN ANIMATION AND GAME DESIGN	
AGD 23020	GAMING AND CULTURE	
ARTS 14000	DRAWING I	
EMAT 10310	MY STORY ON THE WEB	
MERT 12001	COMPUTER-AIDED DESIGN	
<b>Additional Requirements (courses do not count in major GPA)</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
or ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
EERT 32003	TECHNICAL COMPUTING	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3

MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credits hour)		2
<b>Minimum Total Credit Hours:</b>		<b>60</b>

## Graduation Requirements

<b>Minimum Major GPA</b>	<b>Minimum Overall GPA</b>
2.000	2.000

## Roadmap

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 22000	TWO-DIMENSION COMMUNICATION	3
BMRT 11000	INTRODUCTION TO BUSINESS or or EXPLORING BUSINESS	3
BUS 10123	or INTRODUCTION TO ENTREPRENEURSHIP	
ENTR 27056		
MERT 12000	ENGINEERING DRAWING	3
UC 10001	FLASHES 101	1
Major Elective		3
Kent Core Requirement		3
<b>Credit Hours</b>		<b>16</b>
Semester Two		Credits
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective		3
Kent Core Requirement		3
<b>Credit Hours</b>		<b>15</b>
Semester Three		Credits
AGD 12001	MODELING AND TEXTURING I	3
AGD 22001	MODELING FOR ARCHITECTURE	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
Major Elective		3
<b>Credit Hours</b>		<b>15</b>
Semester Four		Credits
EERT 32003	TECHNICAL COMPUTING	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
<b>Credit Hours</b>		<b>14</b>
<b>Minimum Total Credit Hours:</b>		<b>60</b>

## University Requirements

All students in an applied or technical associate 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.

Code	Title	Credit Hours
Flashes 101 (UC 10001)		1
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.		
Kent Core (see table below)		15
<b>Total Credit Hour Requirement</b>		<b>60</b>
Some associate degrees require students to complete more than 60 credit hours.		

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate entry-level skills in technical writing and programming.
2. Demonstrate comprehensive skills in two-dimensional, three-dimensional and solid-modeling as applied to complex computer-aided design technology.
3. Understand professional and ethical responsibilities with real-world cases.
4. Collaborate with people of diverse backgrounds and abilities.
5. Demonstrate an ability for effective oral, graphic and written communication.
6. Recognize the need for and an ability to engage in lifelong learning.

## Full Description

The Associate of Applied Science degree in Technical Modeling Design prepares students for entry-level positions as technical illustrators, drafter/designer technicians in business and computer animation and game design industries, as well as in the field of multimedia development. Computer-aided design (CAD) is used throughout the program for computer modeling and multimedia development.

The degree program articulates with the CAD for Manufacturing undergraduate certificate, the Bachelor of Science degree in Animation Game Design and other select bachelor's degrees at Kent State.