

UMKC

UNIVERSITY OF MISSOURI
KANSAS CITY





UMKC

overview

Founded in 1933

Enrollment: About 16,000 students

Faculty and staff: About 2,600

Degree programs: 125+

Philanthropic endowment: \$400 million

Top 10% of universities in the United States



Kansas City

Located in the middle of the United States





Kansas City
is the city of
fountains

UMKC is in the center of the city near the famous
Country Club Plaza

UMKC



Kansas City has
plenty of **fun**
locations

UMKC is located near the Power and Light District,
a well-known entertainment district

UMKC



Kansas City
is full of
opportunity

About 2.3 million people live in the metropolitan region

#2 for high-paying jobs and low cost of living

#1 for engineers and computer scientists per capita in the nation

20 \$1 billion companies within 20 miles of UMKC

UMKC



Public Research University

Top-rated education

- **Conservatory**
- School of Education, Social Work, and Psychological Sciences
- **School of Humanities and Social Sciences**
- Henry W. Bloch School of Management
- **School of Science and Engineering**
- School of Law



UMKC

Health Sciences Campus

- School of Dentistry
- School of Medicine
- School of Nursing and Health Studies
- School of Pharmacy



UMKC Ranking

Top 200 Best Computing and
Engineering Schools

•
#64 Best Medical Schools

•
#147 Computer Science

•
"Best Value" public university

•
#31 Pharmacy

•
#3 in Top Public Universities
in Missouri

•
#15 MPA

•
87 Engineering



School of Science and Engineering

\$70 million in research



20 startup companies



\$2.5 million in scholarships



ABET Accredited



Multidisciplinary learning,
academics, research



Cutting-edge research,
GTA and GRA opportunities for
international students



Division of Computing, Analytics and Mathematics

Computer Science

Specialty Areas or Tracks

- Database and Information Management
- Big Data
- AI
- Cybersecurity
- Data Science
- Networking and Telecommunications
- Software Engineering and System
- Cloud Computing
- VR
- Internet of things

Mathematics and Statistics

Division of Energy, Matter and Systems

Electrical Engineering

Specialty Areas or Tracks

Computer, Embedded Systems, and
Microelectronics

Nanotechnology

Electromagnetics and Radio Frequency (RF)
Circuits and Systems

Communication, Networking, and Signal
Processing

Computer Vision, Multimedia, and Machine
Learning

Power, Renewable Energy, and Control

Chemistry

Mechanical Engineering (specialty next slide)

Physics and Astronomy

Division of Energy, Matter and Systems

Electrical Engineering

Chemistry

Mechanical Engineering

Specialty Areas or Tracks

Biomechanics

Materials

Manufacturing

Thermal and Fluid Sciences

Robotics and Controls

Automation, robotics and controls

Renewable energy

Unmanned aircraft

Aerospace engineering

Physics and Astronomy

Division of Natural and Built Environment

Civil Engineering

Specialty Areas or Tracks
Water Resources
Structures
Geotechnical & Materials
Construction Management
Bridge engineering

Earth and Environmental Science

Specialty Areas or Tracks
Environmental science
Geology
Physical geography

Architecture and Urban Planning + Design



Division of Biological and Biomedical Systems

Biology

Specialty Areas or Tracks

Bioinformatics

Biomedical sciences

Biotechnology

Clinical laboratory science

Cellular and molecular basis of health and disease

Biomedical Engineering

Specialty Areas or Tracks

Biomechanics and computational biology

Biomaterials

Bioelectronics and medical devices

Biomedical signal processing

Bio electromagnetics



Robert W. Plaster Free Enterprise and Research Center

Opened in October 2021

\$40m research and learning facility

\$22m building

58,000 sq ft

\$18m in state-of-the-art equipment

- Virtual reality/augmented reality
- High performance computing, big data, cybersecurity
- Renewable energy, power electronics, smart-grid, E&M
- Clean room, nano fabrication, biosensors, bioprinters
- Maker space, team fabrication, prototyping
- Motion Capture Facility
- Advanced Manufacturing
- RF Technologies

3d Printing



- Rapidshape
150+ DLP Resin
- Stratasys J826
- Stratasys
Fortus 450 MC
- Stratasys F370
& F170
- Composite
FDM Printer
- Epilog Laser
Engraver

3d Printing



- Kurtz Ersa Alpha 140 Powder Bed Metal Laser



Flight Simulator

Augmented and Virtual Reality

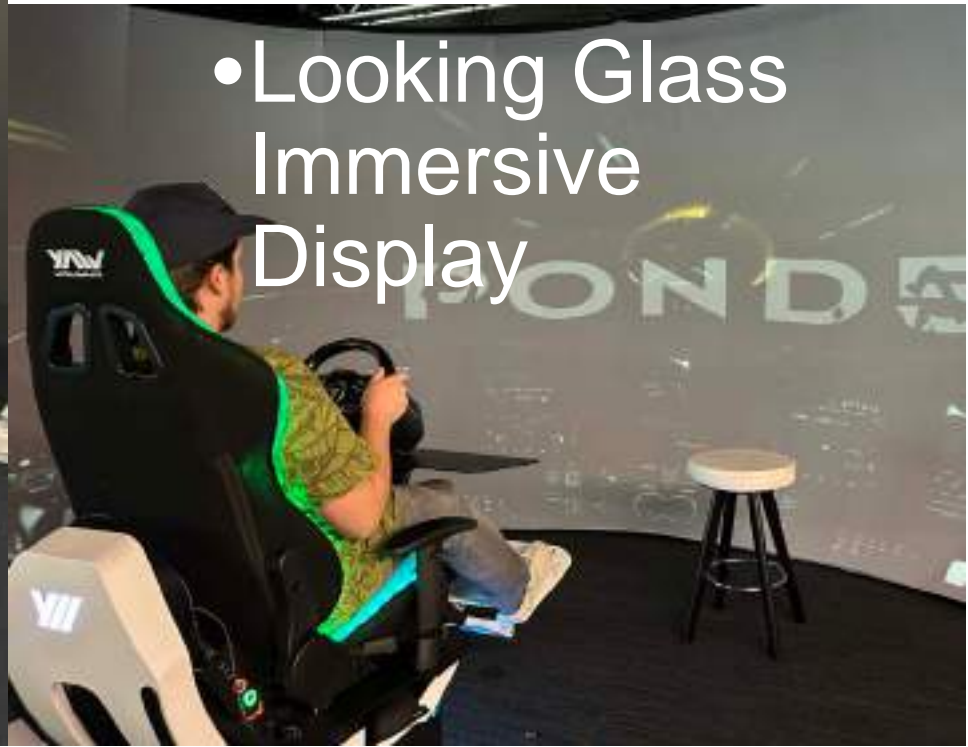


- Wearables
 - VR: Oculus Quest
 - AR: Microsoft HoloLens

Augmented and Virtual Reality



- zSpace
- Idome Immersive 3d
- Looking Glass Immersive Display



Fabrication Shop

- Woodworking
- Metalworking
- CNC Machining



Dean's **International Scholar Award**

\$4,250/semester for undergraduate students

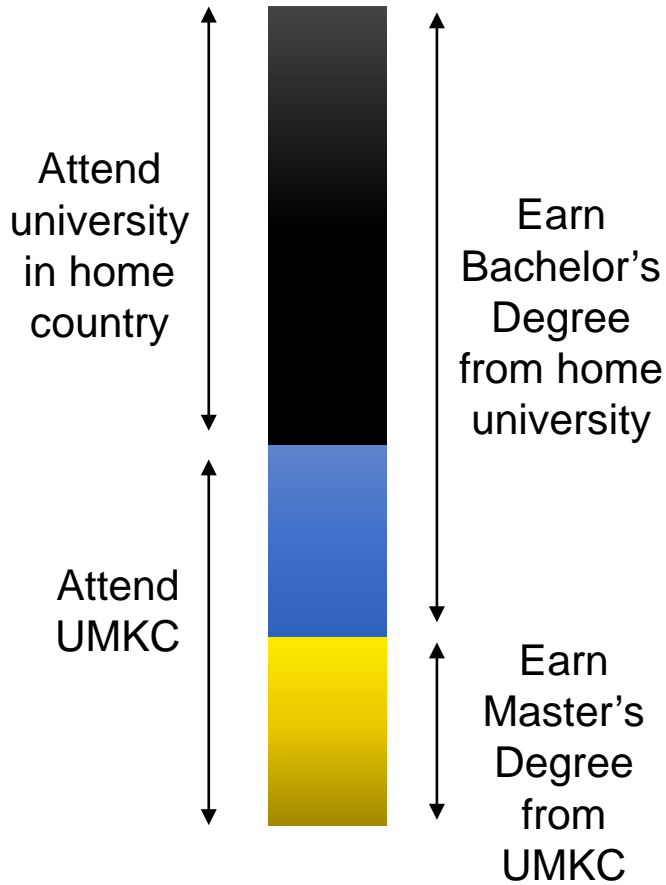
\$4,000/semester for master's students

Reduces tuition to near domestic rates



University Partnership Programs

Example 1: 3+1+1 Program



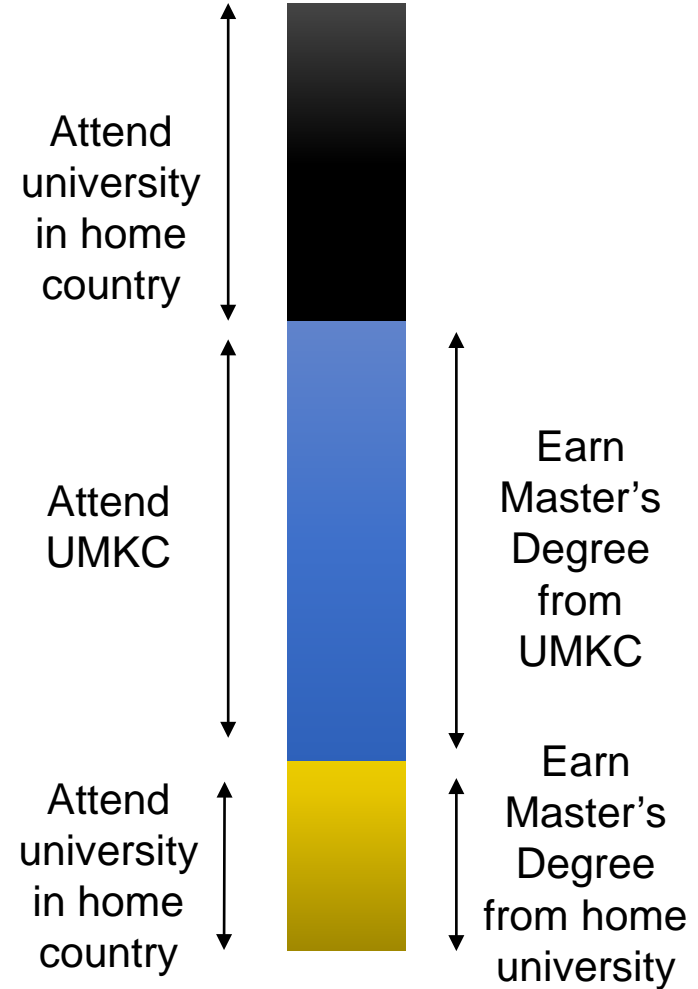
Degree Partnership Programs

Earn UMKC master's degree

Prepare for your US education at your home university

Learn more from our education partners

Example 2: 1+1.5+0.5 Program



Admission Requirements

3+1+1


- Attend partner university:
 - Apply in 3rd year
- 80% average
 - Submit 5 semesters' transcript.
- TOEFL 69+; IELTS 5.5+; Duolingo 95; CET 6 score of 425; Or pass UMKC ALI English test level 4
- Waive ACT/GRE
- Waive recommendation letter
- Waive personal statement

Master Degree

- Attend partner university:
 - Apply in 4th year or after
- 80% average
 - Submit 6 semesters' transcript.
- TOEFL 79+; IELTS 6.0+; Duolingo 105; CET 6 score of 425; Or pass UMKC ALI English test level 5
- Waive GRE



Hongkong Partnership



**UMKC SCHOOL OF SCIENCE AND
ENGINEERING**
STEM Learning Hub (Hong Kong)



**DUAL HIGH SCHOOL
PROGRAM**



STEM GREEN PATH



APPLYING TO UMKC

Application Process

APPLY NOW

Set up an online account

<https://www.umkc.edu/isao/>

•

Pay \$75 application fee.

•

Upload documents.

Transcripts, financial statement (required for I-20 and student FI VISA), and passport

Email us if you have any questions about program application

Summer Program or Degree Program

Tian Hao (scan and add her wechat)



Application Questions:

isoadmissions@umkc.edu

Institution collaboration and program design

Huan Ding dingh@umkc.edu (US)



Costs Undergraduate & Graduate

Undergraduate Year(s)	
Full-time credits for one academic year	24*
Tuition and fees	\$26,416
Health insurance, textbooks, etc.	\$2,654
DISA (\$4,250/semester)	(\$8,500)
Estimated Total	\$20,550

*Sample only; Credits required for UMKC BS depend on your academic plan and number of transfer credits accepted

Graduate Year(s)	
Full-time credits for one academic year	18**
Tuition and fees	\$23,410
Health insurance	\$2,654
DISA (\$4000/semester)	(\$8,000)
Estimated Total	\$18,044

**Typical year; Credits required are dependent on your academic plan

For typical living expenses see: <https://www.umkc.edu/isao/affordability-and-funding.html>

Summer Programs



STEM Elite Program for High School

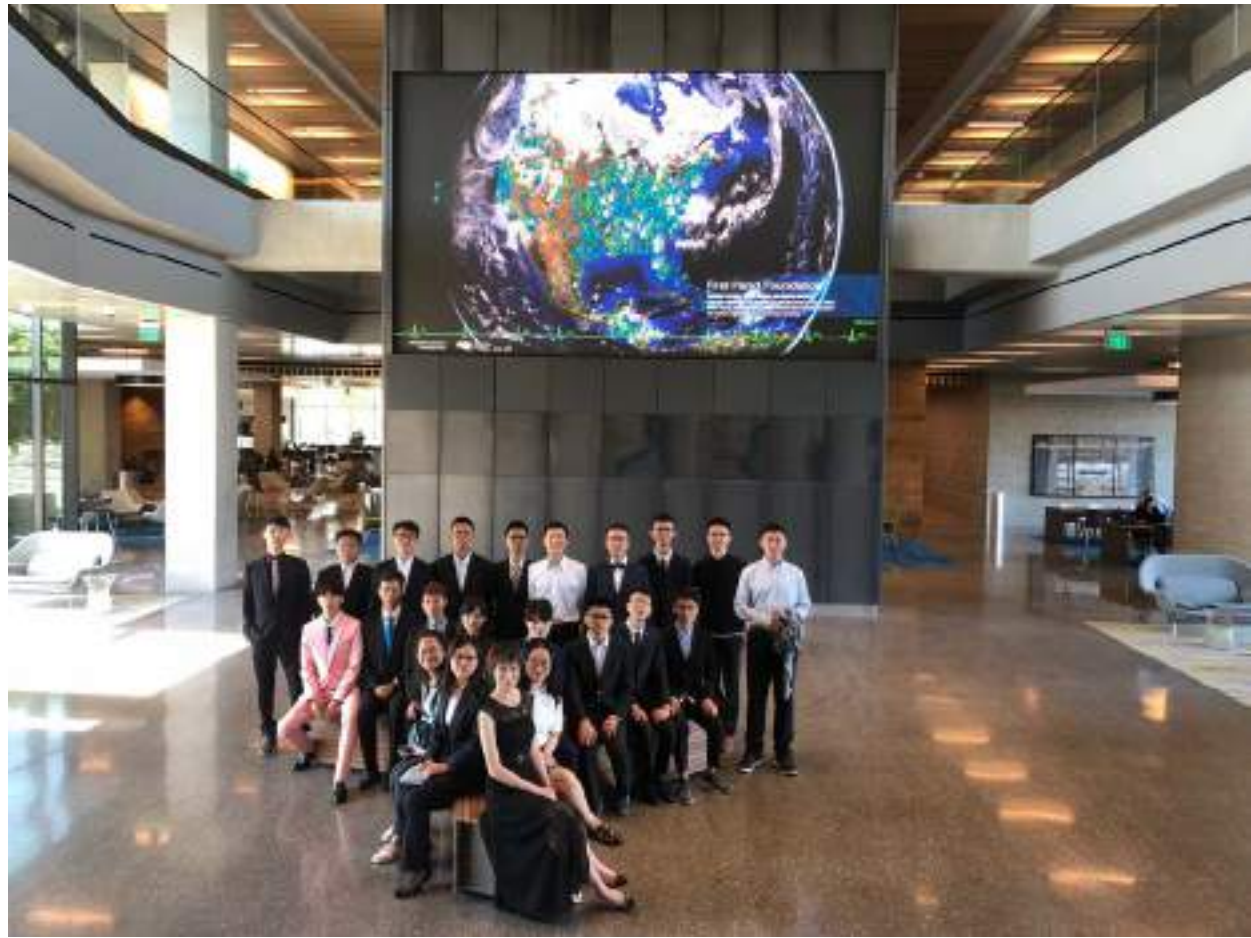
Next program:
Summer 2024

Spend 2 weeks
online and in Kansas
City

Learn all majors in
STEM and
management

Accomplish a VR
project and present

Tour and visit Cerner
or Kiewit



Introduction of AI Summer

Certificate

Project

Curriculum Practice



- July 18 – July 29 2024
- Course goal:
 - Students will know what AI is.
 - Students will learn guided and unguided search, adversarial search, generation and use of heuristics, logic programming, and neural networks.
 - Students will work on project in game playing, data mining or unmanned vehicle.

Stopping for traffic control in 0 ft
cruise stalk to continue

Summer Practice Program: Certificate in Software Tools

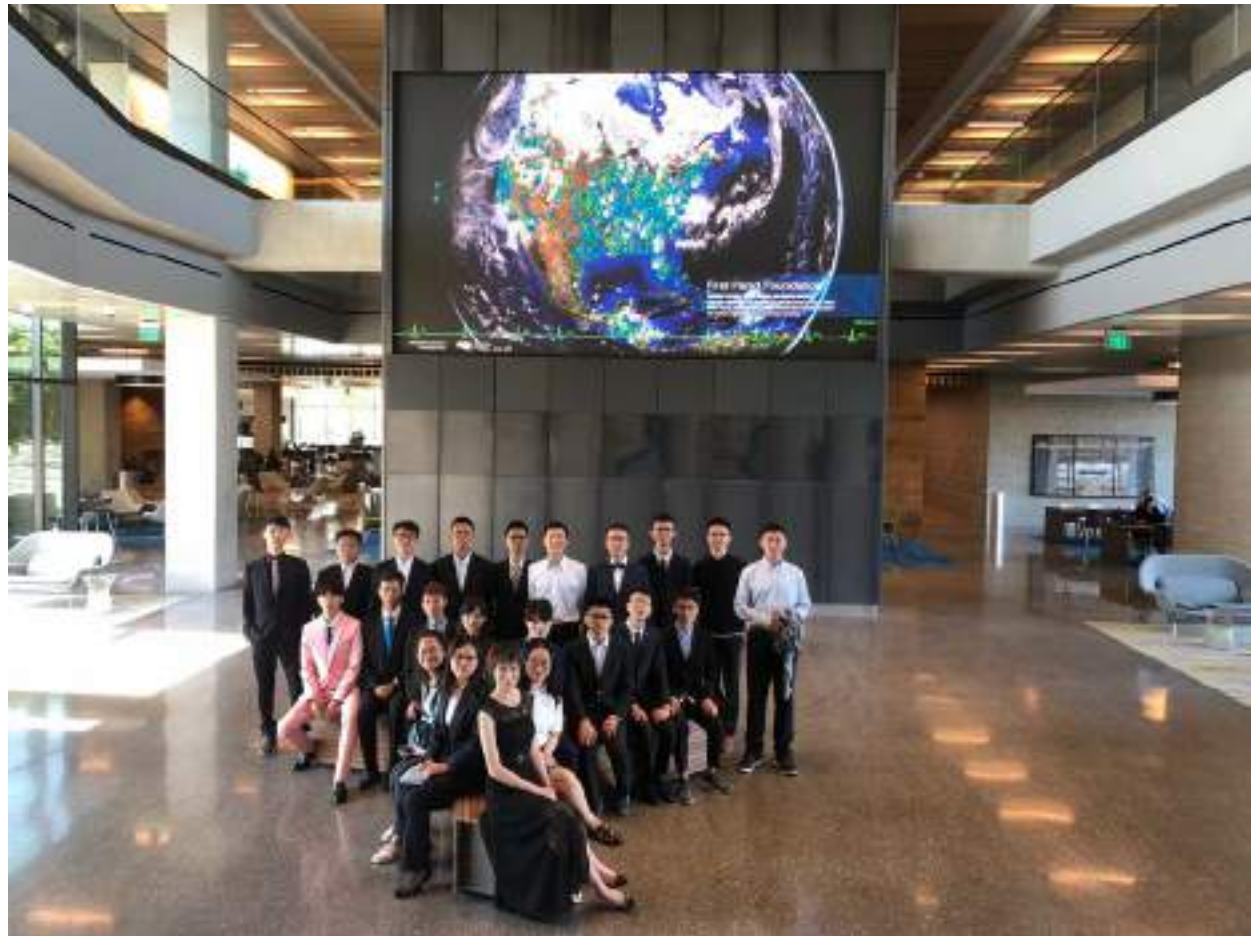
Next program:
Summer 2024

Spend 2 weeks in
Kansas City studying
at UMKC

Accomplish a project
and present to
industry expert

Tour and visit Cerner

Gain credit hour from
your home institution



Summer Practice Program: Certificate in Software Tools

Classwork with UMKC faculty in HTML, CSS, JavaScript, jQuery, and SMART on FHIR

Students will use the open-source SMART on FHIR to design a software project

Students present their final projects to UMKC faculty and Cerner software engineers



Summer VR Practice Program

UMKC & Populous

Learn VR/AR skills

VR Future applications

Work on Populous Project

Gain credit hour

VR/AR Practice Program

- 2024 VR/AR Practice Program
- Seats: 20
- Date: 7/17/2024-7/30/2024
- Majors:
 - Computer Science
 - Software
 - Civil Engineering
 - Others
- Application
 - Email: dingh@umkc.edu





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