

COMPUTER INFORMATION SYSTEMS - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Management and Information Systems
www.kent.edu/business/mis

Contact Information

- Program Coordinator: **O. Felix Offodile** | foffodil@kent.edu | 330-672-1141
- Speak with an Advisor
- Chat with an Admissions Counselor

Fully Offered

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus

Examples of Possible Careers*

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- \$65,450 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- \$93,730 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- \$98,860 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- \$110,140 potential earnings

Computer occupations, all other

- 5.7% faster than the average
- 431,100 number of jobs
- \$92,870 potential earnings

*Note

Source of occupation titles and labor data is 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.

Description

The Bachelor of Business Administration degree in Computer Information Systems provides students with a focus on the creation and supervision of the information systems that are commonly used in organizations of all types and sizes. There is a primary emphasis on problem-solving involving cloud computing systems and infrastructure, creating intuitive systems, business modeling and agile design, data management and business intelligence, cloud systems integration and project management and business experience.

Examples of information systems include airline reservation systems, mobile apps, bank automated teller systems, trading systems for stock exchanges, social media platforms and accounting/auditing systems.

Students can select electives to complement their knowledge base and interests such as in application design and development and other computing infrastructure that focus on the creation and maintenance of application used in smart phones and similar technologies and prepares students for careers as development engineers and system analysts. Students learn to use and manage cloud-based platforms to support and manage business processes and operations in organizations. Some material taught in courses correlate with the knowledge needed to pass professional certification exams.

Students participate in an internship, which involves a summer or a semester of paid professional experience in industry. Internship experience helps show the relevance of on-campus courses to professional work, helps students focus their career plans and often enables students to secure better jobs upon graduation.

Computer Information Systems students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

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 campus 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.

Check with a regional campus admissions office to determine application requirements, as they may differ among campuses.

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, minimum 48 PTE score or minimum 100 DET score; or by completing the ESL level 112 Intensive Program. For more information, visit the admissions website for international students.

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.

Transfer Student: A minimum 2.500 overall GPA (effective spring 2023, a minimum 2.250 overall GPA) is required for admission into the major. Students who have previously attended Kent State who completed (or the equivalent of) COMM 15000, ENG 21011 and/or MATH 11010 must have earned a minimum C grade in the courses, and a minimum C+ grade in both CIS 24053 and CIS 24165.

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform as an effective member on project teams.
2. Navigate the cloud and cloudbased platforms.
3. Select, install and operate systems, databases and applications using cloud infrastructure.
4. Design, code and distribute intuitive cloudbased apps.
5. Conceptualize and deploy data management and analytics systems to support business requirements.

Graduates of the Bachelor of Business Administration degree will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

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.

Destination Kent State: First Year Experience 1

Course is not required for students with 25 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
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120

Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
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 Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CIS 24165	CLOUD SYSTEMS COMPUTING (min C+ grade)	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS (min C grade)	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN (min C grade)	3
CIS 34167	CREATING INTUITIVE SYSTEMS (min C grade)	3
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS (min C grade)	3
CIS 44040	PROGRAMMING FOR THE CLOUD (min C grade)	3
CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I (min C grade)	3
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC) (min C grade) ¹	3
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR) (min C grade) ²	3
Major Elective, choose from the following: (min C grade)		3
CIS 34036	ENTERPRISE SYSTEMS AND BUSINESS PROCESSES	
CIS 34191	TECHNOLOGY BOOTCAMP	
CIS 44140	APPLICATION DESIGN AND DEVELOPMENT	
CIS 44243	DATA MANAGEMENT AND BUSINESS INTELLIGENCE II	
CIS 44295	SPECIAL TOPICS IN INFORMATION SYSTEMS	
CIS 44293	WORKSHOP IN PROFESSIONAL INFORMATION SYSTEMS CERTIFICATION	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3

ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS (min C+ grade)	3
BUS 10123	EXPLORING BUSINESS ³	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR) ⁴	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I ⁵	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) ⁶		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ⁷		10
Minimum Total Credit Hours:		120

graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.
⁵ Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
⁶ Minimum C grade is required in ENG 21011 or HONR 20197.
⁷ An education abroad experience is encouraged as a general elective. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Minimum 2.250 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010 (or placement out of MATH 11010)
- Minimum C+ grade in both CIS 24053 and CIS 24165
- Minimum C grade in major requirements.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

¹ A minimum C must be earned to fulfill the writing-intensive requirement.

² Substitutions will be considered by the chair of the Department of Management and Information Systems on a case-by-case basis.

³ A student changing to a program in the college, transferring or a incoming student with college credit plus credits, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163 , MKTG 25010 or CIS 24053)
- At the discretion of the dean's Ooffice, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

⁴ Students can take MATH 10051 or PHIL 21002 in place of MATH 11012 or MATH 12002. Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major in, Economics or Finance and/or intend to declare a minor in Data Analytics. Students who intend to enroll in certain

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
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
	or ANALYTIC GEOMETRY AND CALCULUS I	
	MATH 12002 (KMCR)	
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24165	CLOUD SYSTEMS COMPUTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
Required for progression in the major: Minimum 2.250 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010; and a minimum C+ in both CIS 24053 and CIS 24165.		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34167	CREATING INTUITIVE SYSTEMS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Credit Hours		15
Semester Five		
Required: minimum 2.250 overall GPA		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
! CIS 44040	PROGRAMMING FOR THE CLOUD	3
MGMT 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		
Required: minimum 2.250 overall GPA		
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
! CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	3
FIN 36053	BUSINESS FINANCE	3
MGMT 34060	OPERATIONS MANAGEMENT	3

Kent Core Requirement		3
Credit Hours		15
Semester Seven		
Required: minimum overall 2.250 GPA		
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC)	3
MGMT 34156	BUSINESS ANALYTICS II	3
Kent Core Requirement		3
! General Electives		6
Credit Hours		15
Semester Eight		
Required: minimum overall 2.250 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
Kent Core Requirement		3
General Electives		4
Credit Hours		13
Minimum Total Credit Hours:		120