

# COMPUTER INFORMATION SYSTEMS - B.B.A.

## College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
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## Description

The Bachelor of Business Administration degree in Computer Information Systems provides students with a focus on the creation and supervision of the Computerized Information Systems (CIS) 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 IS 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 major and minor courses correlate with the knowledge needed to pass professional certification exams. Guidance in selecting electives is available from the program faculty or from the Undergraduate Programs Office.

Students participate in a CIS 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.

## Fully Offered At:

- Kent Campus

## 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.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based

upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for 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 score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 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 cloud based platforms.
3. Select, install and operate systems, databases and applications using cloud infrastructure.
4. Design, code and distribute intuitive cloud based 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 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## 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
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CIS 24165	CLOUD SYSTEMS COMPUTING (min C+ grade)	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
CIS 34167	CREATING INTUITIVE SYSTEMS	3
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
CIS 44040	PROGRAMMING FOR THE CLOUD	3
CIS 44043	DATA MGMT AND BUS INTELL I	3
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC) <sup>1</sup>	3
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR) <sup>2</sup>	3

Major Electives, choose from the following:		3
CIS 34036	ENTERPRISE SYSTEMS AND BUSINESS PROCESSES	
CIS 34170	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 IS CERTIFICATION	

<b>Additional Requirements (courses do not count in major GPA)</b>		
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 <sup>3</sup>	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)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I <sup>4</sup>	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) <sup>5</sup>		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) <sup>6</sup>		10
Minimum Total Credit Hours:		120

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

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

- <sup>3</sup> A student changing to the College of Business Administration or transferring 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 Office, 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.
- <sup>4</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
- <sup>5</sup> Minimum C grade in ENG 21011 or HONR 20197.
- <sup>6</sup> 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 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011 (or HONR 20197), MATH 11010 (or placement out of MATH 11010) and a minimum C+ grade in both CIS 24053 and CIS 24165.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- 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 of Business Administration for complete satisfaction of the B.B.A.

## 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.

<b>Semester One</b>		<b>Credits</b>
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
<b>Semester Two</b>		
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
<b>Semester Three</b>		
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
<b>Semester Four</b>		
Required for progression in the major: Minimum 2.500 cumulative 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
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34167	CREATING INTUITIVE SYSTEMS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
Required: minimum 2.500 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
<b>Semester Six</b>		
Required: minimum 2.500 overall GPA		
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
! CIS 44043	DATA MGMT AND BUS INTELL I	3
FIN 36053	BUSINESS FINANCE	3

MGMT 34060	OPERATIONS MANAGEMENT	3
Credit Hours		15
<b>Semester Seven</b>		
Required: minimum cumulative 2.500 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
<b>Semester Eight</b>		
Required: minimum cumulative 2.500 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