COLORADO MESA
U N I V E R S I T Y

About This Major . . .

The Bachelor of Science in Computer Information Systems is a degree required today as organizations face the challenges of technology management. This program provides graduates with business management skills and computer information expertise to manage computer systems in today's organizations. Graduates of this program are employed in occupations such as systems analysts, analyst/programmers, database administrators, network administrators, web page designers, help desk specialists, and IT Managers.

Graduates assist businesses with creating, obtaining, and maintaining computer information systems that solve problems and assist in facilitating routine business events. As businesses increasingly rely on technology to provide a competitive advantage, employees with an understanding of both business concepts and computer systems are necessary. Computer information systems studies require students to examine computer systems from organizational, social, psychological, and technical perspectives. Graduates from this program will have taken a variety of courses that were developed based on national guidelines for quality degrees in information systems.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to demonstrate:

1. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
2. Produce professional business work products, independently and working as a team. (Applied Learning)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing. (Communication Fluency)
4. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies.(Specialized Knowledge)
5. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions.(Quantitative Fluency)
6. Properly and appropriately use information systems tools and techniques within functional business areas. (Applied Learning)
7. Identify, formulate, and correctly solve information systems problems. (Specialized Knowledge)

NAME: _____ **STUDENT ID #** _____

LOCAL ADDRESS AND PHONE NUMBER: _____

_____ ( ) _____

I, (Signature)_____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

_____   _____ 20_____
Signature of Advisor   Date

_____   _____ 20_____
Signature of Department Head   Date

_____   _____ 20_____
Signature of Registrar   Date

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:
- 120 semester hours total (A minimum of 28 taken at CMU in no fewer than two semesters).
- 40 upper division credits (A minimum of 15 taken at the 300-400 course levels within the major at CMU).
- 2.00 cumulative GPA or higher in all CMU coursework and no grade less than C for all courses in the major.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the Department Head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

GENERAL EDUCATION REQUIREMENTS (31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement.

Course No Title	Sem.hrs	Grade	Term/Trns

English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)
ENGL 111 English Composition	3	_____	_____
ENGL 112 English Composition	3	_____	_____

Math: MATH 121 **or higher** (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)
*MATH ____ _____	3	_____	_____

*Math 121 or higher level math as approved by advisor, which may require student taking additional MATH prerequisite courses.

Humanities (3 semester hours)
_____ ____ _____	3	_____	_____

Social and Behavioral Sciences (6 semester hours)
_____ ____ _____	3	_____	_____
_____ ____ _____	3	_____	_____

Natural Sciences (7 semester hours, one course must include a lab)
_____ ____ _____	3	_____	_____
_____ ____ _____	3	_____	_____
_____ ___L _____	1	_____	_____

History (3 semester hours)
HIST ____ _____	3	_____	_____

Fine Arts (3 semester hours)
_____ ____ _____	3	_____	_____

Course No Title	Sem.hrs	Grade	Term/Trns

OTHER LOWER DIVISION REQUIREMENTS (6 semester hours)
Kinesiology (3 semester hours)
KINE 100 Health and Wellness	1	_____	_____
KINA 1____ _____	1	_____	_____
KINA 1____ _____	1	_____	_____

Applied Studies (3 semester hours)
_____ ____ _____	3	_____	_____

FOUNDATION COURSES (12 semester hours)
ACCT 201 Principles of Financial Acctg	3	_____	_____
CISB 205 Advanced Business Software	3	_____	_____
CISB 206 Business DBApp Programming	3		
or CSCI 110 Beginning Programming	3		
or CSCI 111 CS1: Foundations of Comp Sci	3		
or Object Oriented Programming Course approved by CIS advisor, specifically:_____	3	_____	_____
CISB 210 Fundamentals of Info Systems	3	_____	_____

MAJOR REQUIREMENTS (54 semester hours)

Computer Information Systems Core (27 semester hours)
CISB 101 Business InfoTechnology	3		
or *CISB 305 Solving Problems using Spreadsheet	3		
or *CISB 306 Solving Problems using Database	3	_____	_____
CISB 310 Enterprise Architecture	3	_____	_____
CISB 315 IS Infrastructure	3	_____	_____
CISB 331 Advanced Business Programming	3	_____	_____
CISB 470 Management of Information Systems	3	_____	_____
CISB 410 Project Management	3	_____	_____
CISB 442 Systems Analysis and Design	3	_____	_____
CISB 451 Database Administration	3	_____	_____
CISB 471 Advanced Information Systems	3	_____	_____

*Course may require additional pre-requisites beyond those required for major.

Required Business Support Courses (21 Semester Hours)
ACCT 202 Principles of Managerial Accounting	3	_____	_____
BUGB 349 Legal Environment of Business	3	_____	_____
ECON 201 Principles of Macroeconomics	3	_____	_____
ECON 202 Principles of Microeconomics	3	_____	_____
FINA 301 Managerial Finance	3	_____	_____
MANG 201 Principles of Management	3	_____	_____
MARK 231 Principles of Marketing	3	_____	_____

Required Quantitative Analysis Courses (6 Semester Hours)
CISB 241 Intro to Business Analysis	3		
or STAT 200 Probability and Statistics	3	_____	_____
MANG 341 Quantitative Decision Making	3		
or CISB 341 Quantitative Decision Making	3	_____	_____

Electives (All college level courses appearing on your final transcript, **not listed above** that will bring your total semester hours to 120 hours. It is highly recommended that at least 3 hours must be individualized studies such as Cooperative Education, Directed Readings or Independent Study.) (17 semester hours; **4-7 hours of upper division may be needed.**)

(Recommended: TECI 260, CISB 460, CISB 305, or CISB 306)

Course	No	Title	Sem.hrs	Grade	Term/Trns
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____

Course	No	Title	Sem.hrs	Grade	Term/Trns
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____
_____	___	_____	____	____	_____

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN COMPUTER INFORMATION SYSTEMS

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

FRESHMAN YEAR

Fall Semester		Hours
CISB 210	Fundamentals of Information Systems	3
ENGL 111	English Composition	3
MATH 121	Calculus for Business	3
CISB 101	Business Information Technology	3
or CISB 305	Solving Problems with Spreadsheets	
or CISB 306	Solving Problems with Databases	
General Education Social/Behavioral Science		3
General Education Humanities		3
		15

Spring Semester		Hours
CISB 205	Advanced Business Software	3
ENGL 112	English Composition	3
General Education History		3
General Education Fine Arts		3
General Education Social/Behavioral Science		3
		15

SOPHOMORE YEAR

Fall Semester		Hours
ACCT 201	Principles of Financial Accounting	3
CISB 206	Business Database Application Programming	3
or CSCI 110 or 111 or Object Oriented Programming		
CISB 310	Enterprise Architecture	3
ECON 201	Principles of Macroeconomics	3
MARK 231	Principles of Marketing	3
		15

Spring Semester		Hours
ACCT 202	Principles of Managerial Accounting	3
CISB 315	IT Infrastructure	3
ECON 202	Principles of Microeconomics	3
MANG 201	Principles of Management	3
CISB 241	Intro to Business Analysis	3
or STAT 200	Probability and Statistics	
		15

JUNIOR YEAR

Fall Semester		Hours
CISB 410	Project Management	3
MANG 341	Quantitative Decision Making	3
OR CISB 341	Quantitative Decision Making	
CISB 331	Advanced Business Programming	3
General Education		3
General Education Applied Studies		3
		15

Spring Semester		Hours
CISB 470	Management of Information Systems	3
CISB 442	Systems Analysis and Design	3
General Education Natural Science with Lab		4
KINA	Activity	1
KINE 100	Health and Wellness	1
Elective		3
		15

SENIOR YEAR

Fall Semester		Hours
CISB 451	Database Administration	3
BUGB 349	Legal Environment of Business	3
FINA 301	Managerial Finance	3
General Education Natural Science		3
Elective		3
		15

Spring Semester		Hours
CISB 471	Advanced Information Systems	3
KINA	Activity	1
Electives		11
		15

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the Catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December**.
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you will be required to take a Major Field Achievement Test (exit exam).