



2016-2017 PETITION/PROGRAM SHEET
Degree: Bachelor of Science
Major: Computer Information Systems

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:

1. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing, including individual presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
6. Strategically apply information across functional areas of business. (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally and professionally. (Applied Learning)
9. 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.

Signature of Advisor _____ 20____
Date

Signature of Department Head _____ 20____
Date

Signature of Registrar _____ 20____
Date

DEGREE REQUIREMENTS:

- 120 semester hours total (Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher).
- 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.
- Essential Learning Capstone should be completed between 45 and 75 hours.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Course No	Title	Sem.hrs	Grade	Term/Trns
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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		
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*Math 121 or higher level math as approved by advisor, which may require student taking additional MATH prerequisite courses.

Humanities (3 semester hours)

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Social and Behavioral Sciences (6 semester hours)

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Natural Sciences (7 semester hours, one course must include a lab)

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_____		3		
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History (3 semester hours)

HIST _____		3		
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Fine Arts (3 semester hours)

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Course No	Title	Sem.hrs	Grade	Term/Trns
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WELLNESS REQUIREMENT (2semester hours)

KINE 100	Health and Wellness	1		
KINA 1 _____		1		

ESSENTIAL LEARNING CAPSTONE (4 semester hours)

ESSL 290	Maverick Milestone (see English & math pre-reqs)	3		
ESSL 200	Essential Speech (co-requisite)	1		

FOUNDATION COURSES (12 semester hours)

ACCT 201	Principles of Financial Acctg.	3		
CISB 205	Advanced Business Software	3		
CISB 206	Business App 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		
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MAJOR REQUIREMENTS (54 semester hours)

Computer Information Systems Core (27 semester hours)

CISB 101	Business Info. Technology	3		
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OR *CISB 305 Solving Problems using
Spreadsheets 3

OR *CISB 306 Solving Problems using
Databases 3

CISB 310	Enterprise Architecture	3		
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CISB 315	IS Infrastructure	3		
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CISB 331	Advanced Business Programming	3		
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CISB 470	Management of Info. Systems	3		
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CISB 410	Project Management	3		
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CISB 442	Systems Analysis and Design	3		
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CISB 451	Database Administration	3		
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CISB 471	Advanced Information Systems	3		
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*Course may require additional pre-requisites beyond those required for major.

Required Business Support Courses (21 Semester Hours)

ACCT 202	Principles of Managerial Acctg.	3		
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BUGB 349	Legal Environment of Business	3		
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ECON 201	Principles of Macroeconomics	3		
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ECON 202	Principles of Microeconomics	3		
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FINA 301	Managerial Finance	3		
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MANG 201	Principles of Management	3		
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MARK 231	Principles of Marketing	3		
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Required Quantitative Analysis Courses (6 Semester Hours)

CISB 241	Intro to Business Analysis	3		
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OR STAT 241 Intro to Business Analysis 3 _____

MANG 341	Quantitative Decision Making	3		
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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
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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	Spring Semester		Hours
CISB 101	Fundamentals of Information Systems	3	CISB 205	Advanced Business Software	3
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 121	Calculus for Business		CISB 210	Business Information Technology	3
OR CISB 305	Solving Problems with Spreadsheets		ESSL	Fine Arts	3
OR CISB 306	Solving Problems with Databases	3	ESSL	Social/Behavioral Science	<u>3</u>
ESSL	Humanities	3			15
ESSL	History	<u>3</u>			
		15			

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
ACCT 201	Principles of Financial Accounting	3	ACCT 202	Principles of Managerial Accounting	3
CISB 206	Business Application Programming	3	CISB 315	IT Infrastructure	3
OR CSCI 111	OR Object Oriented Programming		ECON 202	Principles of Microeconomics	3
CISB 310	Enterprise Architecture	3	MANG 201	Principles of Management	3
ECON 201	Principles of Macroeconomics	3	CISB 241	Intro to Business Analysis	
MARK 231	Principles of Marketing	<u>3</u>	OR STAT 241	Intro to Business Analysis	<u>3</u>
		15			15

JUNIOR YEAR

Fall Semester		Hours	Spring Semester		Hours
CISB 410	Project Management	3	CISB 470	Management of Information Systems	3
MANG 341	Quantitative Decision Making	3	CISB 442	Systems Analysis and Design	3
OR CISB 341	Quantitative Decision Making		ESSL	Natural Science with Lab	4
CISB 331	Advanced Business Programming	3	KINA	Activity	1
ESSL 290	Maverick Milestone	3	KINE 100	Health and Wellness	1
ESSL 200	Essential Speech	<u>1</u>	Elective		<u>3</u>
		13			15

SENIOR YEAR

Fall Semester		Hours	Spring Semester		Hours
CISB 451	Database Administration	3	CISB 471	Advanced Information Systems	3
BUGB 349	Legal Environment of Business	3	Electives		<u>11</u>
FINA 301	Managerial Finance	3			14
ESSL	Natural Science	3			
Elective		<u>3</u>			
		15			

POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. 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.** 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. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar’s Office. (Students cannot handle the forms once the advisor signs.)
4. 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.
5. NOTE: During your senior year, you will be required to take a capstone exit assessment/project (e.g., Major Field Achievement Test).