2013-2014 PETITION/PROGRAM SHEET
Degree: Bachelor of Arts
Major: Liberal Arts, Elementary Teaching
Concentration: Mathematics

About This Major . . .

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop *Educators as Innovators;* we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The elementary licensure program provides teacher education candidates with a broad content knowledge and prepares them as teachers for grades kindergarten through six. A minimum of 60 credit hours of general education and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education elementary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 211, *Foundations of Education*, must be taken before applying to the program.
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. Demonstrate familiarity with the logical and historical development of mathematics and the implications of this development. (Specialized Knowledge)
2. Demonstrate a deep and coherent proficiency in the mathematics underlying elementary curricula. (Quantitative Fluency)
3. Effectively communicate mathematics using oral and written exposition appropriate for teachers of mathematics. (Communication Fluency)
4. Reason mathematically and communicate precisely using clear definitions, appropriate symbols, correct units of measure with an appropriate degree of precision, proper labels, and coherent chains of logic. (Applied Learning)
5. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns. (Specialized Knowledge)
6. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
7. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
8. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. Critical Thinking/ Communication Fluency)
9. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration. (Applied Learning)

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 Teacher Education Advisor   Date

_____ 20_____
Signature of Content 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:
- 125-126 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).
- 2.80 cumulative GPA or higher in all CMU coursework
- 2.80 cumulative GPA or higher in coursework toward the major content area
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A cumulative grade point average of 2.8 or higher must be maintained for -content courses-and overall GPA. A grade of B or better is required for all EDUC courses.
- 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.
- Foreign language proficiency must be demonstrated by high school coursework (2 years), college coursework (2 semesters), or competency testing.
- 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.
- Students must PASS the PLACE or PRAXIS II exam in the content area prior to beginning the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.
- A grade of C or better must be earned in all required courses, unless otherwise stated.

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 "B" 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 205 (3 semester hours) Must be taken after MATH 105. Must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.

MATH 205	Elements of Mathematics II	3	____	____

Humanities (3 semester hours)
ENGL** ____ _____ ____ ____ _____
*Chosen from 131, 132, 150, 222, 231, 232, 254, 255, 261, 262

Social and Behavioral Sciences (6 semester hours)

*PSYC 233	Human Growth & Development	3	____	_____
GEOG 103	World Regional Geography	3	____	_____

*Must earn a "B" or higher

Course No	Title	Sem.hrs	Grade	Term/Trns

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

History (3 semester hours)

HIST 131	United States History	3	____	_____

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

BIOL 101	General Human Biology	3	____	_____
BIOL 101L	General Human Biology Lab	1	____	_____
PHYS 100	Concepts of Physics	3	____	_____
OR				
PHYS 105/105L	Physics by Inquiry and Lab	3	____	_____

OTHER LOWER DIVISION REQUIREMENTS (6 semester hours)
Foreign Language: Proficiency must be demonstrated in college or high school coursework. See note in Degree Requirements.

Kinesiology (3 semester hours)

KINE 100	Health and Wellness	1	____	_____
KINA 1____	_____	1	____	_____
KINA 1____	_____	1	____	_____

Applied Studies (3 semester hours)

SPCH 102	Speechmaking	3	____	_____

Must earn a "B" or higher

MAJOR REQUIREMENTS: **LIBERAL ARTS CORE**
(36 Semester Hours)

Literacy: (9 semester hours)

ENGL 240	Children's Literature	3	____	_____
ENGL 245	Imaginative Writing	3	____	_____
ENGL 343	Language Systems and Linguistic Diversity	3	____	_____

Mathematics: (6 semester hours)

*MATH 105	Elements of Mathematics I	3	____	_____
MATH 301	Math for Elementary Teachers	3	____	_____

*Must earn a "C" or higher

Kinesiology: (3 semester hours)

KINE 321	Physical Activity and Health in the Classroom	3	____	_____

Social Sciences: (9 semester hours)

POLS 101	American Government	3	____	_____
ECON 201	Principles of Macroeconomics	3	____	_____
HIST 225	History of Colorado	3	____	_____

Science: (6 semester hours)

CHEM 100	Chemistry and Society	3	____	_____
GEOL 100	Survey of Earth Science	3	____	_____

Art: (3 semester hours)

ARTD 410*	Elementary Art Ed Methods	3	____	_____

*Prerequisites: EDUC 211, EDUC 341, EDUC 343

Course No	Title	Sem.hrs	Grade	Term/Trns

MATH CONTENT AREA (15 semester hours)

Required Courses: (12 semester hours)

Course No	Title	Sem.hrs	Grade	Term/Trns
STAT 200	Probability and Statistics	3	_____	_____
*Select one of the following: CSCI 305 or CSCI 110				
*CSCI 305	Tech for Math Educators	3	_____	_____
OR				
*CSCI 110	Beginning Programming	3	_____	_____
*Select one of the following: MATH 151 or MATH 146				
*MATH 151	Calculus I	5	_____	_____
OR				
*MATH 146	Calculus for Biological Sciences	5	_____	_____
MATH 389	Explorations in Mathematics	1	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns

Concentration: 3 semester hours chosen from Concentration Electives below (make sure all prerequisites are met):

_____ ____ _____ 3 _____ _____

Concentration: (3 semester hours)
Choose one course from the following:
MATH 305 Euclidean Geometry (3)
MATH 369 Discrete Structures (3)
STAT 311 Statistical Methods (3)
MATH 340 Ethnomathematics (3)

Elementary Education Requirements (38 semester hours – 840 Field Experience Hours)
***Prerequisites:** ENGL 111, ENGL 112, SPCH 102, PSYC 233, EDUC 211 (all with a grade of B or better), and MATH 105 with grade of C or better and formal acceptance into the Teacher Education Program.

Course No	Title	Sem.hrs	Grade	Term/Trns		
EDUC 211	Foundations of Education	2	_____	_____	2 semester hours	20 Field Experience Hours
EDUC 341*	Pedagogy & Assessment: K-6/Elementary	3	_____	_____	3 semester hours	20 Field Experience Hours
EDUC 343*	Teaching to Diversity	3	_____	_____	3 semester hours	20 Field Experience Hours
EDUC 374	Exceptional and ELL	3	_____	_____	3 semester hours	
EDUC 378	Technology for K-12 Educators	1	_____	_____	1 semester hour	
EDUC 441	Methods of Teaching Lang. & Literacy: EL	6	_____	_____	6 semester hours	60 Field Experience Hours
EDUC 451	Methods of Teaching Math: EC/EL	3	_____	_____	3 semester hours	60 Field Experience Hours
EDUC 461	Methods of Teaching Science & Social Science: EC/EL	3	_____	_____	3 semester hours	60 Field Experience Hours
EDUC 471	Educational Assessment	1	_____	_____	1 semester hours	
EDUC 475	Classroom Management	1	_____	_____	1 semester hour	
EDUC 499C	Teaching Internship/Colloq.: EL	12	_____	_____	12 semester hours	600 Field Experience Hours

**All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN
LIBERAL ARTS MATH – LEADING TO ELEMENTARY TEACHER LICENSURE

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
ENGL 111	English Composition	3
POLS 101	American Government	3
HIST 131	United States History	3
PSYC 233	Human Growth and Development	3
PHYS 100	Concepts of Physics **OR**	
PHYS 105	Physics by Inquiry **AND**	2
PHYS 105L	Physics by Inquiry Lab	1
KINA Activity		1
		16

Spring Semester		Hours
ENGL 112	English Composition	3
CHEM 100	Chemistry and Society	3
SPCH 102	Speechmaking	3
GEOL 100	Survey of Earth Science	3
MATH 105	Elements of Mathematics I	3
KINA	Activity	1
		16

SOPHOMORE YEAR

Fall Semester		Hours
BIOL 101	General Human Biology	3
BIOL 101L	General Human Biology Lab	1
ENGL ___	General Education Humanities (English)	3
KINE 100	Health and Wellness	1
STAT 200	Probability and Statistics	3
MATH 205	Elements of Mathematics II	3
ECON 201	Principles of Macroeconomics	3
		17

Spring Semester		Hours
ENGL 240	Children's Literature	3
HIST 225	History of Colorado	3
General Education Fine Arts		3
MATH 151	Calculus I **OR**	
MATH 146	Calculus for Biological Sciences	5
*EDUC 211	Foundations of Education	2
		16

*Must be taken prior to acceptance into the Center for Teacher Education. Offered in summer, fall and spring semesters.

JUNIOR YEAR

Fall Semester		Hours
EDUC 341	Pedagogy and Assessment: Elementary	3
EDUC 343	Teaching to Diversity	3
MATH 301	Mathematics for Elementary Teachers	3
KINE 320	Elementary Physical Education Methods	3
ENGL 245	Imaginative Writing	3
MATH Concentration Course*		3
		18

*Chosen from MATH 340, MATH 369, MATH 305, or STAT 311

Spring Semester		Hours
EDUC 374	Exceptional and ELL	3
EDUC 378	Technology for K-12 Educators	1
*CSCI 305	Technology for Mathematics Educators **or**	
CSCI 110	Beginning Programming	3
ENGL 343	Language Systems/Linguistic Diversity	3
ARTD 410	Elementary Art Methods	3
GEOG 103	World Regional Geography	3
*MATH 389	Explorations in Mathematics	1
		17

*Only offered in spring

SENIOR YEAR

Fall Semester		Hours
EDUC 441	Meth. of Teaching Language/Literature	6
EDUC 451	Methods of Teaching Mathematics	3
EDUC 461	Meth. of Teaching Science/Social Studies	3
EDUC 471	Educational Assessment for K-12	1
		13

Spring Semester		Hours
EDUC 499C	Teaching Internship/Colloq.: Elementary	12
EDUC 475	Classroom Management for K-12	1
		13

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).