

# ACADEMIC PLANNING SHEET

## B.A. MATHEMATICS SECONDARY CERTIFICATION

COLORADO STATE UNIVERSITY – PUEBLO

2015-2016 CATALOG

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	Fall Semester		Spring Semester	
<b>First Year</b>	MATH 126: Calculus and Analytic Geometry I ENG 101: English Composition I PHYS 201/L or Elective ED 202: Foundations of Education	5 3 3-4 3	MATH 224: Calculus & Analytic Geometry II MATH 207: Matrix & Vector Algebra with Apps ENG 102: English Composition II PHYS 221/221L or CHEM 121/121L	5 2 3 5
	<b>TOTAL SEMESTER HOURS</b>	<b>14-15</b>	<b>TOTAL SEMESTER HOURS</b>	<b>15</b>
<b>Second Year</b>	MATH 307: Introduction to Linear Algebra MATH 325: Intermediate Calculus PHYS 222/222L or CHEM 122/122L** ED 280: Educational Media and Technology	4 3 5 3	MATH 330: Introduction to Higher Geometry MATH 319: Number Theory MATH 242: Introduction to Computation PSYCH 151: Human Development Or PSYCH 251: Childhood and Adolescence COMR 103: Speaking and Listening	3 3 4 3 3
	<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>
<b>Third Year</b>	MATH 350: Probability MATH 477: Secondary School Mathematics OR MATH 463: History of Mathematics ED 301 Frameworks of Teaching General Education Course: Social Science Foreign Language	3 3-4  4 3 3	MATH 356: Statistics for Engineers & Scientists MATH 427: Abstract Algebra ED 412: Teaching Diverse Learners General Education Course: History Foreign Language	3 4 3 3 3
	<b>TOTAL SEMESTER HOURS</b>	<b>16-17</b>	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>
<b>Fourth Year</b>	MATH 421: Introduction to Analysis MATH 477: Secondary School Mathematics OR MATH: 463: History of Mathematics RDG 435: Content Area Literacy Electives	4 3-4  4 3	ED 485: Capstone Seminar in Education ED 488: Student Teaching	1 12
	<b>TOTAL SEMESTER HOURS</b>	<b>14-15</b>	<b>TOTAL SEMESTER HOURS</b>	<b>13</b>

COMR 103 is required for admission to Teacher Education program.

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## **General Education Requirements:** (21 semester hours)

- ENG 101: English Composition I (3)
- ENG 102: English Composition II (3)
- Mathematics Course (3)
  - MATH 126: Calculus and Analytic Geometry I*
- Humanities Courses (9)
  - COMR 103: Speaking and Listening (3)*
- Foreign Language (6)
- History Course (3)
- Social Sciences Courses (6)
- PSYCH 151 or PSYCH 251 (3)*
- Natural and Physical Sciences Courses (8) (2 courses with labs)
  - CHEM 121/1221L and CHEM 122/122L*  
OR
  - PHYS 221/221L and PHYS 222/222L*

## **Foreign Language Requirements:**

*Student seeking the degree of Bachelor of Arts must complete one of the three options listed below:*

- 1) Completion of the second level of a foreign language (course number 102).
  - \*Student may test out of the course
  - \*Completion of a foreign language course above 102 with a grade of C or better will satisfy the requirement
- 2) Completion of FL 100, Introduction to Comparative Linguistics, & ANTHR/ENG 106, Language Thought and Culture.
- 3) Completion of the first and second level of American Sign Language

## **Transfer Students:**

**Course Completed elsewhere** CSU-Pueblo equivalent  
(Ex: English 101) (Ex: English 101)

## **Institutional Graduation Requirements:**

- Total of 120 semester hours, minimum.
- Complete a minimum of 40 semester hours in upper-division courses.
- Overall cumulative grade point average of 2.00.
- A minimum of 60 semester hours must be earned from a four -year institution. Of these, a minimum of 30 semester hours of credit must be earned in residence.
- Of the last 30 semester credits earned immediately preceding graduation, no more than 15 may be completed at other colleges or universities.
- All other requirements as specified in the Catalog.

## **Additional Major Graduation Requirements:**

- Mathematics majors must complete the mathematics courses in their program with a grade of C or better.
- All majors must complete a physics course numbered 200 or above.

## **Additional Minor Graduation Requirements:**

- Cumulative grade point average of 2.600.

## **Major Requirements:** (46 semester hours)

- MATH 126: Calculus and Analytic Geometry I (5)*
- MATH 207: Matrix & Vector Algebra with Applications (2)
- MATH 224: Calculus and Analytic Geometry II (5)
- MATH 307: Introduction to Linear Algebra (4)
- MATH 319: Number Theory (3)
- MATH 325: Intermediate Calculus (3)
- MATH 330: Introduction to Higher Geometry (3)
- MATH 350: Probability (3)
- MATH 356: Statistics for Engineers & Scientists (3)
- MATH 421: Introduction to Analysis (4)
- MATH 427: Abstract Algebra (4)
- MATH 463: History of Mathematics (3)
- MATH 477: Materials & Techniques of Teaching Secondary School Math (4)

(courses in *italics* meet General Education requirements)

## **Minor Requirements:** (33 semester hours)

### **\*Admission to Education Program required**

(*SPCOM 103* with a grade of B- or better required for admission)

- ED 202: Foundations of Education (3)
- ED 280: Education Media and Technology (3)
- ED 301: Frameworks of Teaching (4)
- ED 412: Teaching Diverse Learners (3)
- ED 485: Capstone Seminar (1)
- ED 488: Secondary Student teaching (12)
- PSYCH 151 or PSYCH 251 or PSYCH 342 (3)*
- RDG 435: Content Area Literacy (4)

## **Laboratory Science Sequence:** (10 semester hours)

- CHEM 121/1221L and CHEM 122/122L*  
OR
- PHYS 221/221L and PHYS 222/222L*

## **Computer Programming:** (4 semester hours)

- MATH 242: Introduction to Computation

## **Electives:** (6 semester hours)

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