

# ACADEMIC PLANNING SHEET

## B.S. 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 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</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: Intro to 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 General Education Course: Humanities	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 General Education Course: Humanities	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.

**DISCLAIMER:** The Academic Planning Sheet is designed as a guide for students planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of an academic adviser. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered CSU-Pueblo.

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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)*
- 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*

## **Transfer Students:**

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

## **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)

## **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 (cont.):**

- 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 – contact Teacher Education department for admission requirements**

- 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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