# Academic Planning Sheet

## B.A. Mathematics Secondary Certification

### Colorado State University – Pueblo

2016-2017 Catalog

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

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 advisor. 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.
Academic Planning Sheet

B.A. Mathematics
Secondary Certification

Colorado State University – Pueblo

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 121/122L and CHEM 122/122L
  - 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 at least 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: Student Teaching Secondary (12)
- PSYCH 151 or PSYCH 251 or PSYCH 342 (3)
- RDG 435: Content Area Literacy (4)

Laboratory Science Sequence: (10 semester hours)

- CHEM 121/122L 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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