**ACADEMIC PLANNING SHEET**  
**B.A. MATHEMATICS**  
**SECONDARY CERTIFICATION**  
**COLORADO STATE UNIVERSITY – PUEBLO**  
2013-2014 CATALOG

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<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 126: Calculus and Analytic Geometry I</td>
<td>5</td>
<td>MATH 224: Calculus &amp; Analytic Geometry II</td>
</tr>
<tr>
<td>ENG 101: English Composition I</td>
<td>3</td>
<td>MATH 207: Matrix &amp; Vector Algebra with Apps</td>
</tr>
<tr>
<td>PHYS 201/L or Elective</td>
<td>3-4</td>
<td>ENG 102: English Composition II</td>
</tr>
<tr>
<td>ED 202: Foundations of Education</td>
<td>3</td>
<td>PHYS 221/221L or CHEM 121/121L</td>
</tr>
<tr>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
<td>14-15</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 307: Introduction to Linear Algebra</td>
<td>4</td>
<td>MATH 330: Introduction to Higher Geometry</td>
</tr>
<tr>
<td>MATH 325: Intermediate Calculus</td>
<td>3</td>
<td>MATH 319: Number Theory</td>
</tr>
<tr>
<td>PHYS 222/222L or CHEM 122/122L**</td>
<td>5</td>
<td>MATH 242: Intro to MATLAB</td>
</tr>
<tr>
<td>ED 280: Educational Media and Technology</td>
<td>3</td>
<td>PSYCH 151: Human Development</td>
</tr>
<tr>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
<td>15</td>
<td>Or</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
<td>16</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
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<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 350: Probability</td>
<td>3</td>
<td>MATH 356: Statistics for Engineers &amp; Scientists</td>
</tr>
<tr>
<td>MATH 477: Secondary School Mathematics</td>
<td>3-4</td>
<td>MATH 427: Abstract Algebra</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>ED 412: Teaching Diverse Learners</td>
</tr>
<tr>
<td>MATH 463: History of Mathematics</td>
<td>3</td>
<td>General Education Course: History</td>
</tr>
<tr>
<td>ED 301 Frameworks of Teaching</td>
<td>3</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>General Education Course: Social Science</td>
<td>3</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
<tr>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
<td>15-16</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
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<thead>
<tr>
<th>Fourth Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 421: Introduction to Analysis</td>
<td>4</td>
<td>ED 485: Capstone Seminar in Education</td>
</tr>
<tr>
<td>MATH 477: Secondary School Mathematics</td>
<td>3-4</td>
<td>ED 488: Student Teaching</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH: 463: History of Mathematics</td>
<td>4</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
<tr>
<td>RDG 435: Content Area Literacy</td>
<td>3</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
<tr>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
<td>14-15</td>
<td><strong>TOTAL SEMESTER HOURS</strong></td>
</tr>
</tbody>
</table>

SPCOM 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.
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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)
  - SPCOM 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
2) Completion of a foreign language course above 102 with a grade of C or better will satisfy the requirement
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 (3)
- ED 412: Teaching Diverse Learners (3)
- ED 485: Capstone Seminar (2)
- 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 121/122L and CHEM 122/122L
- OR
- PHYS 221/221L and PHYS 222/222L

Computer Programming: (4 semester hours)
- MATH 242: Intro to MATLAB

Electives: (6 semester hours)

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