<table>
<thead>
<tr>
<th>Academic Planning Sheet</th>
<th>B.S. Mathematics Secondary Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colorado State University – Pueblo</td>
<td>2014-2015 Catalog</td>
</tr>
<tr>
<td>Dr. Frank Zizza, Chair/Professor</td>
<td></td>
</tr>
<tr>
<td>216 Physics/Math Building Phone: 549-2444 Email: <a href="mailto:frank.zizza@csupueblo.edu">frank.zizza@csupueblo.edu</a></td>
<td>Ms. Mary Sandoval, Administrative Assistant</td>
</tr>
<tr>
<td>216 Physics/Math Building Phone: 549-2433 Email: <a href="mailto:mary.sandoval@csupueblo.edu">mary.sandoval@csupueblo.edu</a></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td>MATH 126: Calculus and Analytic Geometry I</td>
<td>MATH 224: Calculus &amp; Analytic Geometry II</td>
</tr>
<tr>
<td>ENG 101: English Composition I</td>
<td>MATH 207: Matrix &amp; Vector Algebra with Apps</td>
</tr>
<tr>
<td>PHYS 201/L or Elective</td>
<td>ENG 102: English Composition II</td>
</tr>
<tr>
<td>ED 202: Foundations of Education</td>
<td>PHYS 221/221L or CHEM 121/121L</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Semester Hours</strong></td>
</tr>
<tr>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>MATH 307: Introduction to Linear Algebra</td>
<td>MATH 330: Introduction to Higher Geometry</td>
</tr>
<tr>
<td>MATH 325: Intermediate Calculus</td>
<td>MATH 319: Number Theory</td>
</tr>
<tr>
<td>PHYS 222/222L or CHEM 122/122L**</td>
<td>MATH 242: Intro to MATLAB</td>
</tr>
<tr>
<td>ED 280: Educational Media and Technology</td>
<td>PSYCH 151: Intro to Human Development</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Semester Hours</strong></td>
</tr>
<tr>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td>MATH 350: Probability</td>
<td>MATH 356: Statistics for Engineers &amp; Scientists</td>
</tr>
<tr>
<td>MATH 477: Secondary School Mathematics OR</td>
<td>MATH 427: Abstract Algebra</td>
</tr>
<tr>
<td>MATH 463: History of Mathematics</td>
<td>ED 412: Teaching Diverse Learners</td>
</tr>
<tr>
<td>ED 301 Frameworks of Teaching</td>
<td>General Education Course: History</td>
</tr>
<tr>
<td>General Education Course: Social Science</td>
<td>General Education Course: Humanities</td>
</tr>
<tr>
<td>General Education Course: Humanities</td>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
<td>16-17</td>
</tr>
<tr>
<td>Fourth Year</td>
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</tr>
<tr>
<td>MATH 421: Introduction to Analysis</td>
<td>ED 485: Capstone Seminar in Education</td>
</tr>
<tr>
<td>MATH 477: Secondary School Mathematics OR</td>
<td>ED 488: Student Teaching</td>
</tr>
<tr>
<td>MATH: 463: History of Mathematics</td>
<td><strong>Total Semester Hours</strong></td>
</tr>
<tr>
<td>RDG 435: Content Area Literacy</td>
<td>14-15</td>
</tr>
<tr>
<td>Electives</td>
<td><strong>Total Semester Hours</strong></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td>14-15</td>
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</tbody>
</table>

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**

**COLORADO STATE UNIVERSITY – PUEBLO**

**B.S. MATHEMATICS**

**SECONDARY CERTIFICATION**

**2014-2015 CATALOG**

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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)

**Mathematics Course (3)**

**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)

**Laboratory Science Sequence:** (10 semester hours)
- CHEM 121/122L and CHEM 122/122L
  
**Computer Programming:** (4 semester hours)
- MATH 242: Intro to MATLAB

**Electives:** (6 semester hours)

**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)

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09/03/14