The Mathematics FOS applies to all baccalaureate programs in the following CIP codes:

27.0101  Mathematics, General

Mathematics Field of Study

<table>
<thead>
<tr>
<th>Prefix &amp; Number</th>
<th>Course Name</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2413</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2414</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2415</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2318</td>
<td>Linear Algebra¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2320</td>
<td>Differential Equations¹</td>
<td>3</td>
</tr>
<tr>
<td>I. PHYS 2425</td>
<td>Choose one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>II:</td>
<td>I. University Physics I (lecture + lab)</td>
<td></td>
</tr>
<tr>
<td>A: PHYS 2325</td>
<td>II:</td>
<td></td>
</tr>
<tr>
<td>B: PHYS 2125</td>
<td>A. University Physics I (lecture)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. University Physics II (lab)</td>
<td></td>
</tr>
</tbody>
</table>
I. ENGR 2304
II:
  A. COSC 1336
  B. COSC 1436
III:
  A. COSC 1337
  B. COSC 1437
  C. COSC 2336
  D. COSC 2436
  E. COSC 2325
  F. COSC 2425

Choose one of the following:
I. Programming for Engineers
II:
  A. Programming Fundamentals I (3 SCH version)
  B. Programming Fundamentals I (4 SCH version)
III:
  A. Programming Fundamentals II (3 SCH version)
  B. Programming Fundamentals II (4 SCH version)
  C. Programming Fundamentals III (3 SCH version)
  D. Programming Fundamentals III (4 SCH version)
  E. Computer Organization (3 SCH version)
  F. Computer Organization (4 SCH version)

3-4

TOTAL: 25-26

1Some receiving institutions may prefer the 4 SCH version of Linear Algebra (MATH 2418) and Differential Equations (MATH 2420); however, the 3 SCH is fully transferable and must apply to the degree program. Students are encouraged to check the curriculum of the institution to which they plan to transfer.

Courses in the Field of Study must transfer at all Texas public institutions of higher education and must be applied to the student’s degree program in Mathematics and related degree programs.