## 2014-2016 Catalog Paradigm

**Mathematics**

### First Year

1. **MATH 131** (or **MATH 124**) or **MATH 132** (C-QR)  
   *Prereq for MATH 131/124 – 4 yrs college prep math in HS or MATH 115; for Math 132 – MATH 131 or 124*  

2. **MATH 132** or **MATH 233**  
   *Prereq for MATH 132 – Math 131 or 124; for MATH 233 – MATH 132*  

3. **CSCI 110** (C-QR)  
   *Prereq/Coreq – MATH 115*  

4. **THRS 117** (C-TF)  

5. **PHIL 120** (C-PF)  

6. Core Curriculum  

7. Elective/Minor  

8. Elective/Minor

### Second Year

1. **MATH 233**  
   *Prereq – MATH 132*  

2. **MATH 250**  
   *Prereq – MATH 132*  

3. Core Curriculum  

4. Core Curriculum  

5. Core Curriculum  

6. Elective/Minor  

7. Elective/Minor  

8. Elective/Minor

### Third Year

1. **MATH 300** or above  

2. **MATH 300** or above  

3. **MATH 300** or above  

4. Core Curriculum  

5. Core Curriculum – Advanced Requirement  

6. Elective/Minor  

7. Elective/Minor  

8. Elective/Minor

### Fourth Year

1. **MATH 300** or above  

2. **MATH 300** or above  

3. **MATH 499** (-0- credit) (2\textsuperscript{nd} semester)  

4. Core Curriculum – Advanced Requirement  

5. Core Curriculum – Advanced Requirement  

6. Elective/Minor  

7. Elective/Minor  

8. Elective/Minor  

9. Elective/Minor

Elective/Minor courses can be used to take additional core curriculum courses, major courses, free electives, or to fulfill a minor.

This paradigm assumes that you will meet the second language competency by taking a language at the 102 level. If you need to start at 101, then one of the electives will be used for that course.
Required Courses:

☐ CSCI 110 – Introduction to Computer Programming

☐ MATH 131 (or 124) – Calculus and Analytic Geometry 1 (or A Survey of Calculus)

☐ MATH 132 – Calculus and Analytic Geometry 2

☐ MATH 233 – Calculus and Analytic Geometry 3

☐ MATH 250 – Advanced Foundations of Mathematics

☐ MATH 499 – Senior Examination (-0- credit)

Five Math courses numbered 300 or above. CS 323 – Theory of Computation is included as a math course in this requirement. At least one must be from MATH 303, 306, 350, 373, or 376.

☐ MATH 300 or above ______________

☐ MATH 300 or above ______________

☐ MATH 300 or above ______________

☐ MATH 300 or above ______________

☐ MATH 300 or above ______________

Note – it is recommended that math majors take courses in at least one area where mathematics is applied; for example, accounting, business administration, computer science, economics, or physics.

MATH 499 is a zero credit course required of all math majors in their senior year.

Residency requirements – majors must take MATH 499 and earn credit in at least three Mathematics courses at St. Norbert College numbered 300 or above.

The following courses meets the MATH major and Core Curriculum requirements:
CSCI 110 – C-QR
MATH 131 or MATH 124 – C-QR
# Early Adolescence/Adolescence Certification

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MATH 131 (or MATH 124) or MATH 132 (C-QR)</td>
<td>1. MATH 233</td>
</tr>
<tr>
<td>Prereq for MATH 131/124 – 4 yrs college prep math in HS or MATH 115; for Math 132 – MATH 131 or 124</td>
<td>Prereq – MATH 132</td>
</tr>
<tr>
<td>2. MATH 132 or MATH 233</td>
<td>2. MATH 250</td>
</tr>
<tr>
<td>Prereq for MATH 132 – Math 131 or 124; for MATH 233 – MATH 132</td>
<td>Prereq – MATH 132</td>
</tr>
<tr>
<td>3. CSCI 110 (C-QR)</td>
<td>3. Core Curriculum</td>
</tr>
<tr>
<td>Prereq/Coreq – MATH 115</td>
<td></td>
</tr>
<tr>
<td>4. EDUC 125</td>
<td>4. Core Curriculum</td>
</tr>
<tr>
<td>5. EDUC 130 (C-IS)</td>
<td>5. Core Curriculum</td>
</tr>
<tr>
<td>6. THRS 117 (C-TF)</td>
<td>6. EDUC 351 and EDUC 223&lt;sup&gt;SB&lt;/sup&gt;</td>
</tr>
<tr>
<td>7. PHIL 120 (C-PF)</td>
<td>7. EDUC 252 and EDUC 254&lt;sup&gt;SB&lt;/sup&gt;</td>
</tr>
<tr>
<td>8. Core Curriculum</td>
<td>8. EDUC 281 and EDUC 250&lt;sup&gt;SB&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MATH 306</td>
<td>1. MATH 300 or above</td>
</tr>
<tr>
<td>Prereq – MATH 250</td>
<td>2. MATH 300 or above</td>
</tr>
<tr>
<td>2. MATH 350 (offered Spring semester 2016 and 2018) Prereq – MATH 250</td>
<td>3. MATH 499 (-0- credit) (2&lt;sup&gt;nd&lt;/sup&gt; semester)</td>
</tr>
<tr>
<td>3. MATH 321</td>
<td>4. Core Curriculum – Advanced Requirement</td>
</tr>
<tr>
<td>5. EDUC 330 and EDUC 332&lt;sup&gt;EA&lt;/sup&gt;</td>
<td>6. EDUC 450&lt;sup&gt;ST&lt;/sup&gt; (2 courses)</td>
</tr>
<tr>
<td>6. EDUC 333 and EDUC 334&lt;sup&gt;EA&lt;/sup&gt;</td>
<td>7. EDUC 455&lt;sup&gt;ST&lt;/sup&gt; (2 courses)</td>
</tr>
<tr>
<td>7. EDUC 352</td>
<td></td>
</tr>
<tr>
<td>8. Elective</td>
<td></td>
</tr>
<tr>
<td>9. Elective</td>
<td></td>
</tr>
</tbody>
</table>

Elective courses can be used to take additional core curriculum courses, major courses, or free electives. This paradigm assumes that you will meet the second language competency by taking a language at the 102 level. If you need to start at 101, then one of the electives will be used for that course.
Progress Sheet  
Mathematics Teaching Major

Required Courses:

☐ CSCI 110 – Introduction to Computer Programming
☐ MATH 131 (or 124) – Calculus and Analytic Geometry 1 (or A Survey of Calculus)
☐ MATH 132 – Calculus and Analytic Geometry 2
☐ MATH 233 – Calculus and Analytic Geometry 3
☐ MATH 250 – Advanced Foundations of Mathematics
☐ MATH 306 – Abstract Algebra
☐ MATH 321 – Probability and Statistics
☐ MATH 350 – Modern Geometry
☐ MATH 300 or above ______________
☐ MATH 300 or above ______________
☐ MATH 499 – Senior Examination (-0- credit)
☐ EDUC 125 Foundations of U.S. Education (4 cr hrs)
☐ EDUC 130 Psychology for Teaching (4 cr hrs)
☐ EDUC 281 Teaching Children with Disabilities (2 cr hrs)
☐ EDUC 223 Instructional Technology (2 cr hrs)
☐ EDUC 252 The Comprehensive High School (2 cr hrs)
☐ EDUC 254 Instructional Methodologies for Adolescents (2 cr hrs)
☐ EDUC 351 Reading & Language Arts Across Content Areas (4 cr hrs)
☐ EDUC 250 Pre-Student Teaching Experience, Secondary School (2 cr hrs)

☐ EDUC 330 The Early Adolescent: Classroom Management and Conflict Resolution (2 cr hrs)
☐ EDUC 332 The Adolescent: Psychology and Methods in the Middle School (2 cr hrs)
☐ EDUC 333 The Early Adolescent: Assessment (2 cr hrs)
☐ EDUC 334 Middle School Field Experience (2 cr hrs)
☐ EDUC 352 Advanced Reading in the Content Areas (2 cr hrs)

☐ EDUC 450 Student Teaching: Early Adolescence (4 or 8 cr hrs)
☐ EDUC 455 Student Teaching: Adolescence (4 or 8 cr hrs)

☐ SSCI 408 Social Inequalities: Race and Minority Relations (C-DD)

The following courses meet the MATH Teaching major and Core Curriculum requirements:  
CSCI 110 – C-QR  
MATH 131 or MATH 124 – C-QR  
SSCI 408 – C-DD/C-AD
Core Curriculum (2014-2016)

Foundations – to be taken during a student’s first year

☐ TF – Theological Foundations
   THRS 117, Other ________________

☐ PF – Philosophical Foundations
   PHIL 120, Other ________________

Required by the end of the second year

☐ WI – Writing Intensive – Writing intensive courses may be drawn from any of the Foundations courses or from any of the General Core Requirements courses at the 100 or 200 level.
   Any course designated C-WI (course, section, semester) ________________, ENGL 101, ENGL 150, ENGL 221, FREN 305, GERM 304, HONR 100, HUMA 100, , Other ________________

☐ QR - Quantitative Reasoning
   CSCI 110, CSCI 150, MATH 123, MATH 124, MATH 131, MATH 132, MATH 212, MATH 220, SSCI 224, Other ________________

Required by the end of the third year

☐ SL – Language Competency – SNC courses - French, German, Hebrew, Japanese, Latin, Greek, Spanish at the 102 level. Requirement can be met by placement testing at the 203 level or beyond, transferring in an approved course at the 102 level or beyond, or successfully taking a course at the 102 level.
   FREN 102, GERM 102, GREK 112, HEBR 102, JAPN 102, CLAS (Latin) 102, CLAS (Greek) 112, LATN 102, SPAN 102, SPAN 103, Other (Transfer) _____________________,
   Or Placement Score > 349 (indicate score) ________________
General Core Requirements – can be taken any time,
Advanced Requirements – to be taken during a Junior or Senior year – three courses, any General Core Requirement courses at the 300 or 400 level

☐ BB – Beyond Borders

ENGL 228, FREN 252, GEOG 140, HIST 118, HIST 120, HIST 122, HIST 130, HUMA 280, INTL/POLI 150, PHIL/THRS 265, SSCI 129, Other ______________

Advanced - CLAS 335, COME 343, ECON 357, ENGL 356, FREN 375, GEOG 363, GERM 376, JAPN 375, NSCI 310, NSCI 348, PEAC/POLI 352, POLI 362, POLI 368, POLI 410, SPAN 365, SPAN 370, SPAN 375, THRS 339, THRS 340, THRS 343, Other ______________

☐ CI - Catholic Imagination

ENGL 240, HUMA 215, THRS 201, THRS 219, Other ______________

Advanced - CLAS/THRS 327, HUMA 337, PEAC/THRS/WMGS 318, PEAC/THRS 333, THRS 310, THRS 312, THRS 314, THRS 316, THRS 320, THRS 322, THRS 325, THRS 338, THRS 350, THRS 355, THRS 360, THRS 361, THRS 433, Other ______________

☐ DD – Difference and Diversity

AMER/HIST 114, AMER/HIST 115, AMER/THRS 221, AMER/HUMA 261, ENGL 221, GEOG 155, GEOG 225, HUMA/WMGS 110, POLI 232, Other ______________

Advanced - AMER/MUSI 318, COME 330, HIST 368, HUMA 301, HUMA 422, SOCI/WMGS 346, SSCI 408, Other ______________

☐ EI – Expression and Interpretation

ART 141, ART 144, ART 145, ART 205, ENGL 150, ENGL 203, HUMA 100, MUSI 150, MUSI 176, THEA 101, THEA 102, THEA 237, WOLT 210, Other ______________

Advanced - CLAS/PHIL 334, FREN 305, GERM 304, GERM 305, HUMA 313, MUSI/PHIL 336, SPAN 301, SPAN 302, Other ______________

☐ IS – Individual and Society

AMER/POLI 130, BUAD 180, ECON 101, ECON 102, EDUC 130, LEAD 200, PSYC 100, SOCI 100, Other ______________

Advanced - CSCI 310, POLI 310, Other ______________

☐ PN – Physical and Natural World

BIOL 105, BIOL 106, BIOL 108, CHEM 100, CHEM 105, EDUC/GEOL 287, GEOG 120, GEOL 105, GEOL 107, GEOL 109, GEOL 115, PHYS 100, PHYS 111, PHYS 121, PHYS 141, Other ______________

Advanced - ENVS 300, NSCI 358, SSCI 301, Other ______________

☐ WT – Western Tradition

AMER/MUSI 184, ART 110, ART 112, ART 115, BIOL 107, ENGL 212, HIST 112, HIST 113, HUMA 240, PHIL 250/THRS 255, Other ______________

Advanced - AMER/PHIL 305, CLAS/WOLT 325, COME/POLI 329, ECON 300, ENGL 321, ENGL 385, FREN 328, GERM 375, HIST 345, HIST 350, HIST 370, HUMA 403, HUMA 411, HUMA 422, MUSI 315, PHIL 310, PHIL 330, SOCI 352, THEA 337, WOLT 320, Other ______________