

# 4 Year Plan – Mathematics & Comp. Sci. Ed. – Odd Year Start

|   |   |   |
|---|---|---|
| <b>Every Fall:</b><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II (online)<br>MATH 225 Calculus III<br>MATH 281 Introduction to Statistics<br>MATH 351 Foundations of Mathematics<br>CSC 150 Computer Science I<br>CSC 215 Programming Techniques<br>CENG 244/L Intro to Digital Systems*<br>CSC 315 Data Structures & Algorithms<br>CSC 340 Software Engineering & Design* | <b>Every Spring:</b><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II<br>MATH 225 Calculus III (online)<br>MATH 281 Introduction to Statistics<br>CSC 210 C++ Intro for Programmers<br>CSC 215 Programming Techniques<br>CENG 244/L Intro to Digital Systems*<br>CSC 315 Data Structures & Algorithms<br>CSC 340 Software Engineering & Design* | <b>Online Courses</b><br><b>Every Fall, Spring, and Summer</b><br><i>MATH 101 Intermediate Algebra</i><br><i>MATH 103 Mathematical Reasoning</i><br><i>MATH 114 College Algebra</i><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II<br>MATH 281 Introduction to Statistics<br><br>MATH 225 Calculus III (spring and summer only) |
| <b>Odd Fall:</b><br>CSC 415 Introduction to Robotics  | <b>Even Spring:</b><br>MATH 413 Abstract Algebra I**  | <i>Note: Courses in italics are not a part of the Mathematics major</i>   |
| <b>Even Fall:</b>   | <b>Odd Spring:</b><br>MATH 361 Modern Geometry<br>MATH 423 Advanced Calculus I**  |   |

## Freshman start on odd year Fall – 4 Yr Plan

| Freshman Fall (odd year) – 16-17 credits                      | Freshman Spring (even year) – 17-18 credits  |
|---|--|
| MATH 123 Calculus I (4)                                       | MATH 125 Calculus II (4)                     |
| MATH 281 Introduction to Statistics (3)                       | CSC 210 C++ Intro for Programmers (1)        |
| CSC 150 Computer Science I (3)                                | CMST 101 Fundamentals of Speech (3)          |
| ENGL 101 Composition I (3)                                    | ENGL 201 Composition II (3)                  |
| Natural Science gen ed w/lab (3-4)                            | PSYC 101 General Psychology (3)              |
| GS 100 University Experience (1)                              | Natural Science gen ed w/lab (3-4)           |
| <b>Sophomore Fall (even year) – 17 credits</b>                |  |
| MATH 225 Calculus III (4)                                     | MATH 361 Modern Geometry (3)                 |
| MATH 351 Foundations of Mathematics (3)                       | MATH 423 Advanced Calculus I** (3)           |
| <OR>  | CSC 315 Data Structures & Algorithms (4)     |
| CSC 251 Finite Structures (3)                                 | CSC 340 Software Engineering & Design* (3)   |
| CSC 215 Programming Techniques (4)                            | EDFN 295 Practicum: Pre-Admission (1)        |
| CENG 244/L Intro to Digital Systems* (3)                      | EDFN 338 Foundations of Am. Education (2)    |
| Arts & Humanities gen ed (3)                                  | EPSY 302 Educational Psychology (3)          |
| <i>Submit Application to the Professional Teacher Program</i> |  |
| <b>Junior Fall (odd year) – 15 credits</b>                    |  |
| CSC 415 Introduction to Robotics (3)                          | MATH 413 Abstract Algebra I** (3)            |
| Social Science gen ed (3)                                     | Arts & Humanities gen ed (3)                 |
| EPSY 428 Child & Adolescent Development (3)                   | INED 411 SD Indian Studies (3)               |
| SPED 100 Intro to Persons with Exceptionalities (3)           | EDFN 365 Computer-Based Tech/Lrng*** (3)     |
| Free elective (3)   | EDFN 475 Human Relations (3)                 |
| <b>Senior Fall (even year) – 16 credits</b>                   |  |
| MLED 480 Middle Level Methods*** (2)                          | SEED 488 7-12 Student Teaching*** (9)        |
| SEED 408 The Diverse 7-12 Classroom*** (3)                    | EDFN 375 Methods of Tech. Integration*** (1) |
| SEED 495 Practicum: Pre-Student Teaching*** (1)               |  |
| SEED 450 Teaching Reading in Content Lit*** (3)               |  |
| SEED 416 5-12 Career/Tech Ed Methods*** (3)                   |  |
| SEED 418 7-12 Math Methods*** (3)                             |  |
| EDFN 440 Classroom Management*** (1)                          |  |

**SDSM&T Course**

*Courses need to be taken together*

\* Only one of these two courses is required

\*\* Only one of these two courses is required

\*\*\* Admitted to Teacher Education required for enrollment

# 4 Year Plan – Mathematics & Comp. Sci. Ed. – Even Year Start

|   |   |   |
|---|---|---|
| <b>Every Fall:</b><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II (online)<br>MATH 225 Calculus III<br>MATH 281 Introduction to Statistics<br>MATH 351 Foundations of Mathematics<br>CSC 150 Computer Science I<br>CSC 215 Programming Techniques<br>CENG 244/L Intro to Digital Systems*<br>CSC 315 Data Structures & Algorithms<br>CSC 340 Software Engineering & Design* | <b>Every Spring:</b><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II<br>MATH 225 Calculus III (online)<br>MATH 281 Introduction to Statistics<br>CSC 210 C++ Intro for Programmers<br>CSC 215 Programming Techniques<br>CENG 244/L Intro to Digital Systems*<br>CSC 315 Data Structures & Algorithms<br>CSC 340 Software Engineering & Design* | <b>Online Courses</b><br><b>Every Fall, Spring, and Summer</b><br><i>MATH 101 Intermediate Algebra</i><br><i>MATH 103 Mathematical Reasoning</i><br><i>MATH 114 College Algebra</i><br><i>MATH 120 Trigonometry</i><br>MATH 123 Calculus I<br>MATH 125 Calculus II<br>MATH 281 Introduction to Statistics<br><br>MATH 225 Calculus III (spring and summer only) |
| <b>Odd Fall:</b><br>CSC 415 Introduction to Robotics  | <b>Even Spring:</b><br>MATH 413 Abstract Algebra I**  | <i>Note: Courses in italics are not a part of the Mathematics major</i>   |
| <b>Even Fall:</b>   | <b>Odd Spring:</b><br>MATH 361 Modern Geometry<br>MATH 423 Advanced Calculus I**  |   |

## Freshman start on even year Fall – 4 Yr Plan

| Freshman Fall (even year) – 17-18 credits                     | Freshman Spring (odd year) – 17-18 credits   |
|---|--|
| MATH 123 Calculus I (4)                                       | MATH 125 Calculus II (4)                     |
| MATH 281 Introduction to Statistics (3)                       | CSC 210 C++ Intro for Programmers (1)        |
| CSC 150 Computer Science I (3)                                | CMST 101 Fundamentals of Speech (3)          |
| ENGL 101 Composition I (3)                                    | ENGL 201 Composition II (3)                  |
| Natural Science gen ed w/lab (3-4)                            | PSYC 101 General Psychology (3)              |
| GS 100 University Experience (1)                              | Natural Science gen ed w/lab (3-4)           |
| <b>Sophomore Fall (odd year) – 17 credits</b>                 |  |
| MATH 225 Calculus III (4)                                     | MATH 413 Abstract Algebra I** (3)            |
| MATH 351 Foundations of Mathematics (3)                       | CSC 315 Data Structures & Algorithms (4)     |
| <OR>  | CSC 340 Software Engineering & Design* (3)   |
| CSC 251 Finite Structures (3)                                 | EDFN 295 Practicum: Pre-Admission (1)        |
| CSC 215 Programming Techniques (4)                            | EDFN 338 Foundations of Am. Education (2)    |
| CENG 244/L Intro to Digital Systems* (3)                      | EPSY 302 Educational Psychology (3)          |
| Arts & Humanities elective (3)                                |  |
| <i>Submit Application to the Professional Teacher Program</i> |  |
| <b>Junior Fall (even year) – 15 credits</b>                   |  |
| EPSY 428 Child & Adolescent Development (3)                   | MATH 361 Modern Geometry (3)                 |
| SPED 100 Intro to Persons with Exceptionalities (3)           | MATH 423 Advanced Calculus I** (3)           |
| SEED 416 5-12 Career/Tech Ed Methods*** (3)                   | Arts & Humanities gen ed (3)                 |
| EDFN 475 Human Relations (3)                                  | EDFN 365 Computer-Based Tech/Lrng*** (3)     |
| Social Science gen ed (3)                                     | INED 411 SD Indian Studies (3)               |
|   | Free Elective (3)                            |
| <b>Senior Fall (odd year) – 16 credits</b>                    |  |
| CSC 415 Introduction to Robotics (3)                          | SEED 488 7-12 Student Teaching*** (9)        |
| MLED 480 Middle Level Methods*** (2)                          | EDFN 375 Methods of Tech. Integration*** (1) |
| SEED 408 The Diverse 7-12 Classroom*** (3)                    |  |
| SEED 495 Practicum: Pre-Student Teaching*** (1)               |  |
| SEED 450 Teaching Reading in Content Lit*** (3)               |  |
| SEED 418 7-12 Math Methods*** (3)                             |  |
| EDFN 440 Classroom Management*** (1)                          |  |

**SDSM&T Course**

**Courses need to be taken together**

\* Only one of these two courses is required

\*\* Only one of these two courses is required

\*\*\* Admitted to Teacher Education required for enrollment