# Northern Kentucky University

MAJOR: **Mathematics**

# TRACK: Secondary Education with Certification1

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| --- | --- | --- | --- | --- |
| FIRST YEAR | Fall Semester | | Spring Semester | |
| MAT 129 Calculus I2 | 4 | MAT 229 Calculus II | 5 |
| MAT 194 Mathematical Sciences Seminar | 1 | STA 250 Probability & Statistics I | 3 |
| Gen Ed: Communication(Written I) | 3 | CSC 270 Mathematics Software Programming | 3 |
| Gen Ed: PSY 1003 Introduction to Psychology(Individual & Society) | 3 | Gen Ed: CMST1014 Public Speaking (Communication Oral) | 3 |
| EDU 104 Orientation: Education Profession / Program | 1 | EDU 305 Introduction to Education | 2 |
| Gen Ed: Culture & Creativity | 3 |  |  |
| TOTAL | 15 | TOTAL | 16 |
| SECOND YEAR | Fall Semester | | Spring Semester(Application Semester) | |
| MAT 302 Introduction to Higher Mathematics | 3 | MAT 234 Linear Algebra | 3 |
| MAT 329 Calculus III | 4 | STA 341 Statistics II | 3 |
| Gen Ed: Communication4 (Written II) | 3 | EDU 300 Human Growth & Development | 3 |
| Gen Ed: Scientific & Quantitative Inquiry (Natural Sciences without lab) | 3 | EDU 316 Racism & Sexism in Educational Institutions(Gen Ed: Cultural Pluralism) | 3 |
| Gen Ed: Culture & Creativity | 3 | Gen Ed: Scientific & Quantitative Inquiry (Natural Sciences with lab) | 4 |
| TOTAL | 16 | TOTAL | 16 |
| THIRD YEAR | Fall Semester(Admissions Semester) | | Spring Semester(Professional Semester I) | |
| MAT 345 Introduction to Higher GeometryO orMAT 430E Complex Analysis | 3 | MAT 415E Rings and Fields orMAT 410O Group Theory | 3 |
| MAT 420O Real Analysis orMAT 310 Elementary Number TheoryE | 3 | MAT/STA Elective (300-level or higher) | 3 |
| EDU 311 Admission Field Experience Secondary | 2 | EDU 319 Classroom Climate Management Secondary | 1 |
| EDU 313 Instructional Technology | 2 | EDS 324 Instruction Planning for Inclusive Secondary Classrooms | 3 |
| EDS 360 Children with Exceptionalities in the Schools | 3 | EDU 324 Fundamentals of Secondary Education | 2 |
| Gen Ed: Individual & Society | 3 | EDU 393 Secondary Field Experience I | 2 |
| TOTAL | 16 | TOTAL | 16 |
| FOURTH YEAR | Fall Semester(Professional Semester II) | | Spring Semester(Clinical Experience) | |
| MAT 310 Elementary Theory of NumbersE orMAT 345 Introduction to Higher GeometryO | 3 | EDU 4965 | 12 |
| Gen Ed: Global Viewpoints | 3 |  |  |
| MAT 489 Comprehensive Examination | 0 |  |  |
| EDU 325 Education Assessment: Secondary Schools | 2 |  |  |
| EDU 333 Teaching Mathematics in the Secondary School | 3 |  |  |
| EDU 530 Reading in Junior & Senior High School | 3 |  |  |
| EDU 396 Secondary Field Experience II | 2 |  |  |
| TOTAL | 16 | TOTAL | 12 |
| 124 |  |  |  |
| GRAND TOTAL OF CREDITS | | | | 123 |
| Note: This plan is ONE way in which you can complete your degree program in 4 years; it is not the only way. It assumes that you have a mathematical background sufficient to begin with calculus as evidenced by a math ACT score of at least 27 or a math SAT score of at least 650. It also assumes that you are not a transfer student, and you are beginning in the fall.  OCourse runs odd years  ECourse runs even years  1Must earn a grade of C or better in all courses with an EDU/EDS prefix.  2MAT 129 satisfies the Scientific & Quantitative Literacy Mathematics & Statistics general education requirement.  3PSY 100 must be completed prior to admission into Teacher Education.  4Must earn a grade of B or better in CMST101 and ENG 102.  5No other courses may be completed during enrollment in EDU 496. | | | | |