

INTEGRATED MATHEMATICS CONCENTRATION
ADOLESCENCE TO YOUNG ADULT - GR. 7-12 (EYA)

Updated 01/18/2016

| <u>Course</u> | <u>Credit Hours</u> | <u>Terms</u> |
|---|---------------------|-------------------|
| EDT 432 Math Methods for EYA..... | 3 | Fall Senior Year |
| MTH 168 Analytic Geometry & Calculus I..... | 4 | Fall First Year |
| MTH 169 Analytic Geometry & Calculus II..... | 4 | Spring First Year |
| MTH 218 Analytic Geometry & Calculus III..... | 4 | Fall Second Year |
| MTH 308 Foundations in Discrete Mathematics..... | 3 | I, II, III |
| MTH 310 Linear Algebra & Matrices..... | 3 | I, II, III |
| MTH 330* Intermediate Analysis..... | 3 | Fall Senior Year |
| Or EDT 630 Multimedia Production | | |
| MTH 361 Introduction to Abstract Algebra..... | 3 | II |
| MTH 370 Introduction to Higher Geometry..... | 3 | II of even years |
| MTH 395 Development of Mathematical Ideas..... | 3 | I of even years |
| MTH 411 Probability and Statistics I..... | 3 | |
| Choose one of the following | 3 | |
| MTH 219 Applied Differential Equations | | |
| Or | | |
| Any additional 300 or 400 level math course | | |
| Choose one of the following | 3 | |
| CPS 132 Comp. Programming for Engineering & Science | | |
| Or | | |
| CPS 150 Algorithms and Programming I | | |

42 TOTAL CONCENTRATION HOURS REQUIRED

Please note that MTH 308 is a pre-requisite for many of the math courses.

Integrated Mathematics students will complete fifteen (15) clock hours of student teaching in the Developmental Mathematics Lab at Sinclair Community College.

MTH 330 may be required of double majors or dual degree mathematic students