

**INTEGRATED MATHEMATICS SPECIALIZATION**

Bachelor of Science in Education; Leads to licensure in grades 7-12. This degree program is designed to be completed in 4 semesters. Changing majors, academic issues or other unforeseen circumstances may require additional semesters for completion.

**BG PERSPECTIVE (BGP) REQUIREMENTS:**

**Must complete at least 1 course in each of the following:**  
 English Composition and Oral Communication

Quantitative Literacy

**Must complete at least 2 courses in each of the following:**  
 Humanities and the Arts

Natural Sciences - at least one Lab Science required

Social and Behavioral Sciences

**Complete total required BGP credit hours by selecting courses from any of the above categories:**

**UNIVERSITY REQUIREMENTS**

**Note:** Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

- Cultural Diversity in the U.S. \_\_\_\_\_
- International Perspective \_\_\_\_\_
- Composition Requirement:  
 \_\_\_\_\_ WRIT 1120 Research Writing \_\_\_\_\_

*Total BGP Credits: Must be at least 36*

**CONTENT FOR TEACHING SPECIALTY**

**43-44 HRS**

- \_\_\_\_\_ EDTL 2741 Algebra in the Sec. Math Class @ 3
- \_\_\_\_\_ EDTL 2742 Geo & Prob in the Sec. Math Class @ 3
- \_\_\_\_\_ Math 1310 Calculus & Analytic Geometry I 5
- \_\_\_\_\_ Math 2320 Calculus & Analytic Geometry II 5
- \_\_\_\_\_ Math 2330 Calculus & Analytic Geometry III 3-4
- \_\_\_\_\_ or Math 2350 Calc. & An. Geom. III w/vector fields
- \_\_\_\_\_ Math 3220 Discrete Mathematics 3
- \_\_\_\_\_ Math 3320 Elementary Linear Algebra 3
- \_\_\_\_\_ Math 3390 Modern Algebra 3
- \_\_\_\_\_ Math 3410 Probability & Statistics 3
- \_\_\_\_\_ Math 4020 Modern Geometry 3
- \_\_\_\_\_ Math 4110 History of Math 3
- \_\_\_\_\_ Math Elective @ 3000/4000 level \_\_\_\_\_ 3
- \_\_\_\_\_ Or MATH 2450 if no prior credit for MATH 1150.
- \_\_\_\_\_ Excluding Math 3950, 4150, 4950.

**SELECT ONE**

- \_\_\_\_\_ Math 4170 Adv. Math for Secondary Teachers ### 3
- \_\_\_\_\_ Math 4650 Introduction to Real Analysis I 3

### Math 4170 is recommended. It should be taken concurrently with the Secondary Methods Block.

**PROFESSIONAL EDUCATION**

**33 HRS**

*(Take blocked courses concurrently. "C" or higher required in all Professional Ed courses.)*

**Year I: What does it mean to be a teacher?**

- |   |   |
|---|---|
| _____ EDTL 2010 Introduction to Education       | 3 |
| _____ EDTL 2300 Intro to Educational Technology | 2 |

**Take one block each semester.**

- |  |       |
|--|-------|
| _____ EDTL 2740 Intro to Secondary Math              | 3     |
| (This course is a prereq for EDTL 3400.)             |       |
| _____ HDFS 1930Q or PSYC 1010 (prereq for EDFI 3030) | 3 - 4 |

**Year II: Who are my students?**

- |  |   |
|--|---|
| _____ EDTL 2020 Teaching Adolescents                 | 3 |
| _____ EDFI 3020 Educational Psychology               | 3 |
| _____ EDIS 2310 Teaching Students w/Exceptionalities | 3 |

**Take one block each semester.**

- |  |   |
|--|---|
| _____ EDFI 2980 Schools, Society, & Cultural Diversity     | 3 |
| _____ EDFI 2990 Field Exp in Cultural & Community Contexts | 1 |

**Year III: How do I teach so all students can learn?**

- |  |   |
|--|---|
| _____ EDTL 3400 Instruction & Differentiation Mid/HS | 3 |
| _____ EDTL 3021 Digital Tech for Middle/HS Teachers  | 3 |

**Take one block each semester.**

- \_\_\_\_\_ EDAS 4090 Organization & Admin of Schools 3

**Year IV - The Professional Year:**

**"Who am I as a teacher?"**

- |   |               |
|---|---------------|
| <b>METHODS BLOCK</b>                            | <b>12 HRS</b> |
| <b>(See eligibility criteria on pg 2.)</b>      |               |
| _____ EDTL 4020 Assessment & Evaluation         | 3             |
| _____ EDTL 4181 Practicum in Secondary Settings | 3             |
| _____ EDTL 4200 Content Literacy                | 3             |
| _____ EDTL 4740 Math Methods                    | 3             |

**STUDENT TEACHING (See eligibility criteria on pg 2.)**

- |   |    |
|---|----|
| _____ EDTL 4840 Adv Seminar in Mathematics Teaching | 3  |
| _____ EDTL 4970 Student Teaching Internship         | 12 |

## IMPORTANT CHECKLISTS

- I. **Application for Methods and Student Teaching** (1)  
is made at a sign-up meeting held the FIRST week (2)  
of each semester for students planning to take  
Methods the following semester. Information is  
available in Room 101 Education Building. You must  
be fully eligible for methods by July 1. (3)
- II. **AYA Methods Eligibility Requirements:**
- \_\_\_\_\_ Attainment of 90 semester hours
  - \_\_\_\_\_ 3.0 cumulative and 2.8 major GPA
  - \_\_\_\_\_ 80% of content coursework complete
  - \_\_\_\_\_ Evidence of meeting program OAE requirements (4)
  - \_\_\_\_\_ All course prereqs completed
  - \_\_\_\_\_ "C" or better in GSW 1120
  - \_\_\_\_\_ "C" or better in EDTL 2010
  - \_\_\_\_\_ "C" or better in EDTL 2300
  - \_\_\_\_\_ "C" or better in EDTL 2710, 2740, 2750,  
or 2760 (per major specialty)
  - \_\_\_\_\_ "C" or better in HDFS 1930Q or PSYC 1010
  - \_\_\_\_\_ "C" or better in EDTL 2020 (5)
  - \_\_\_\_\_ "C" or better in EDFI 3020
  - \_\_\_\_\_ "C" or better in EDIS 2310
  - \_\_\_\_\_ "C" or better in EDFI 2980
  - \_\_\_\_\_ "C" or better in EDFI 2990
  - \_\_\_\_\_ "C" or better in EDTL 3400
  - \_\_\_\_\_ "C" or better in EDTL 3021
  - \_\_\_\_\_ "C" or better in EDAS 4090
- III. **Prerequisites for Student Teaching:** (6)
- \_\_\_\_\_ 100 semester hours completed
  - \_\_\_\_\_ 3.0 accumulative GPA
  - \_\_\_\_\_ 2.8 content specialty GPA
  - \_\_\_\_\_ Program OAE exam criteria met
  - \_\_\_\_\_ "C" or better in all methods  
coursework (7)
  - \_\_\_\_\_ No INCs in student teaching course prereqs
  - \_\_\_\_\_ Positive recommendations from Cooperating  
Teacher, University Mentor, & campus  
instructors (8)

## IMPORTANT REMINDERS!

- This is a competitive program. Your GPA is critical! Meet with your advisor at least once per semester to ensure you are on track.** If you have trouble connecting with your advisor, contact either the Office of Student & Academic Services, 102 Education, or the Program Coordinator.
- Read course descriptions on the BG homepage under "Academics."** These tell you which courses are prerequisites for subsequent classes, the GPA required, whether the course includes a field experience, etc.
- Freshman & Sophomore Years:**
- a. Prioritize coursework & studying.
  - b. Complete 1000 & 2000-level classes, along with major content courses. These are prereqs for other courses you'll need.
  - c. Ed Psych is a prereq for program admission, EDTL 3400, and several upper level classes.
- You are a pre-major in AYA education until you meet criteria for Program Admission:**
- 3.0 cumulative GPA
  - Completion of GSW 1120, Year 1 block courses, EDTL 2020, EDFI 3030, & EDIS 2310 with a "C" or better.
  - Writing sample
  - Dispositions check
  - Possible interview
- You may apply again later if not admitted.
- Junior Year: You will need a 3.0 cumulative GPA and 2.8 concentration-area GPAs to enroll in EDTL 3400.**
- a. You must also have taken all course prerequisites and completed them with a grade of "C" or better.
- Senior Year: Both Methods and Student Teaching require 3.0 cumulative and 2.8 concentration-area GPAs.** See eligibility requirements at left.
- Transfer students** must complete 15 semester hours at BGSU prior to program admission.