

**BEACON PROGRAM CHECKLIST
MIDDLE SCHOOL
MATH CERTIFICATION (Grades 5-9)**



Education department

GENERAL EDUCATION

38 – 47 hrs

The general education component is to be completed according to Columbia College degree requirements. (Please refer to your entrance year catalog for specific degree requirements.)

LIBERAL ARTS AND SCIENCE DEGREE

40 – 60 hrs

Middle Level Education majors may choose from the following recommended degree areas.

- BA – Biology
- BS – Biology
- BA – Chemistry
- BA – English
- BS – Environmental Science
- BA – History
- BS – Mathematics
- BA - Sociology

Students must complete the degree requirements as set forth by Columbia College. Hours required for completion will vary depending on area chosen. (Please refer to your entrance year catalog for specific degree requirements.)

CONTENT AREA COURSEWORK FOR MATH

26 hrs (minimum)

| Grade | Course # | Course Title | Cr Hrs |
|-------|---------------|---------------------------------------------------------------------------|--------|
| | MATH/EDUC 102 | Teaching and Learning Elementary Mathematics from an Advanced Perspective | 3 |
| | MATH 150 | College Algebra | 3 |
| | MATH 155 | Algebraic Reasoning for Elementary and Middle School Teachers | 3 |
| | MATH 165 | Geometric Reasoning for Elementary and Middle School Teachers | 3 |
| | MATH 201 | Calculus and Analytic Geometry I | 5 |
| | MATH 250 | Statistics I | 3 |
| | MATH 331 | Foundations of Geometry | 3 |
| | Electives: | Math electives:(MATH 170 or higher) | 3 |

PROFESSIONAL EDUCATION COURSEWORK

59 hrs

| Grade | Course # | Course Title | Cr Hrs | Field Experience (observation hrs) included |
|-------|----------|---------------------------------|--------|---------------------------------------------|
| | SOCI 270 | Minority Cultures and Relations | 3 | n/a |
| | EDUC 100 | Introduction to Education | 3 | 15 hrs |
| | EDUC 198 | Field Experience I | 1 | 15 hrs |
| | EDUC 200 | Law, Ethics, and Education | 3 | n/a |
| | EDUC 230 | Educational Psychology | 3 | n/a |
| | EDUC 298 | Field Experience II | 1 | 15 hrs |

[The College reserves the right to alter at any time requirements to meet state certification regulations.]

| | | | | |
|-----------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------|----|----------|
| | EDUC 300 | Techniques of Teaching | 3 | 15 hrs |
| | EDUC 390 | Education & Psychology of the Exceptional Child | 3 | n/a |
| | EDUC ____ | Child and Adolescent Development (<i>New Course</i>); or Child Psychology and Adolescent Psychology | 3 | n/a |
| Admission to the Teacher Certification Program (See Teacher Certification Program Checklist) | | | | |
| | EDUC 311 | Classroom Management Techniques | 3 | 15 hrs |
| | EDUC 322 | Educational Measurement and Assessment | 3 | n/a |
| | EDUC 326 | Middle School Methods | 3 | n/a |
| | EDUC 338 | Content Reading and Writing | 3 | 15 hrs |
| | EDUC 359 | Teaching Mathematics in the Middle School | 3 | 15 hrs |
| | EDUC 375 | Advanced Content Methods | 3 | 15 hrs |
| | EDUC 376 | Adolescent Literacy | 3 | n/a |
| | EDUC 400 | Senior Seminar | 3 | n/a |
| Approval for Student Teaching (See Student Teaching checklist) | | | | |
| | EDUC 424 | Student Teaching in the Middle Level Schools** | 12 | 16 weeks |
| | | Total Credit Hours | 59 | |
| Approval for DESE Certification recommendation (See DESE Certification checklist) | | | | |

**Evening Campus students must transfer to the Day Program in order to enroll in student teaching.

Retention Criteria:

- Complete at least 6 hours of professional education each year
- Complete Field Experiences and receive favorable evaluations from cooperating teachers and faculty supervisors
- Maintain a cumulative GPA of 2.75 or above after acceptance to the program
- Maintain a cumulative GPA of 3.0 or above in professional education courses and content area courses

*This is not a degree checklist
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