DAYSTAR PROGRAM CHECKLIST SECONDARY MATH CERTIFICATION (Grades 9-12)



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 - 63 hrs

Secondary Education majors may choose from the following recommended degree areas.

- BA American Studies
- BA Art
- BS Art
- BA Biology
- BS Biology
- BA Business Administration
- BS Business Administration

- 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

CISS 240

30 hrs minimum

3

3

| | . , | | 30 |
|-------|--------------|---|-----|
| | | | Cr |
| Grade | Course # | Course Title | Hrs |
| | Calculus and | d Geometry (8 hrs) | |
| | MATH 201 | Calculus and Analytical Geometry I | 5 |
| | MATH 222 | Calculus and Analytical Geometry II | 5 |
| | | | |
| | MATH 150 | College Algebra (Algebraic Structures 3 hrs) | 3 |
| | MATH 331 | Foundations of Geometry (Geometry 3 hrs) | 3 |
| | | CISS 176 - Introduction to Computer Science or CISS 145 - | |
| | Choose: | Introduction to Python Programming (Computer Science 2 | |
| | | hrs) | 3 |
| | Electives: | Math Electives (1-4) hours from the above listed categories | |
| | Licetives. | to reach 20-hr minimum. | 1-4 |
| | Minimum to | en (10) hrs from at least three of the following areas: | |
| | MATH 330 | History of Mathematics (History of Mathematics) | 3 |
| | MATH 102 | Math for the Elementary School Teacher (Structure of the | |
| | WATTI 102 | Real/Number System) | 3 |
| | MATH 305 | Number Theory (Number Theory 2-3 hrs) | 3 |
| | MATH 300 | Multivariate Calculus (Completion of Calculus Sequence 2-5 | |
| | IVIATE 300 | hrs) | 3 |
| | Choose: | MATH 250 - Statistics I or MATH 338 - Mathematical | |
| | CHOOSE. | | 1 |

Statistics and Probability (Probability and Statistics 2-3 hrs)

Introduction to Programming (Computer Science 2-5 hrs)

| EDUC 514 | Mathematics for the Special Needs Child (remedial) is available at the graduate level for MAT Post-Baccalaureate students. (Math for Exceptional Children 2-3 hrs) | 3 |
|----------|--|---|
| MATH 303 | Linear Algebra (Linear Algebra) | 3 |

PROFESSIONAL EDUCATION COURSEWORK 63 hrs

| PROFESSIONAL EDUCATION COURSEWORK | | | 63 hrs | |
|--|----------|---|--------|--|
| | | | Cr | Field Experience (observatio n hrs) |
| Grade | Course # | Course Title | Hrs | included |
| | SOCI 270 | Minority Cultures and Relations | 3 | none |
| | EDUC 100 | Introduction to Education (formerly EDUC 102/103) | 3 | 15 hrs |
| | EDUC 198 | Field Experience I* | 1 | 15 hrs |
| | EDUC 200 | Law, Ethics, and Education | 3 | none |
| | EDUC 230 | Educational Psychology | 3 | none |
| | EDUC 298 | Field Experience II* | 1 | 15 hrs |
| | EDUC 300 | Techniques of Teaching | 3 | 15 hrs |
| Admission to the Teacher Certification Program (See Teacher Certification Program checklist) | | | | |
| | EDUC 338 | Teaching Reading in the Content Areas & Secondary Schools | 3 | 15 hrs |
| | EDUC 360 | Teaching Mathematics in Middle and Secondary Schools | 3 | 15 hrs |
| | EDUC 398 | DAYASTAR Field Experience III | 1 | 35 hrs |
| | EDUC 525 | Educating Exceptional Individuals | 3 | none |
| | EDUC 550 | Human Development | 3 | none |
| | EDUC 563 | Management of the Classroom Environment | 3 | 15 hrs |
| | EDUC 580 | Methods of Effective Academic Evaluation | 3 | none |
| | EDUC 400 | Senior Seminar | 3 | none |
| Approval for Student Teaching (See Student Teaching Checklist) | | | | |
| | EDUC 698 | Graduate Student Teaching | 9 | 16 weeks |
| | | Total Credit Hours (undergraduate) | 27 | |
| Approval for DESE certification recommendation (See DESE Certification Checklist | | | | |

| Continue with Remaining MAT Degree coursework; Submit Declaration of Candidacy for Degree before last semester | | | | | | |
|--|-----------|--|----|------|--|--|
| | EDUC 500 | Research Design | 3 | none | | |
| | EDUC 504 | Curriculum Design and Evaluation | 3 | none | | |
| | EDUC 508 | Integrative Project | 3 | none | | |
| | Elective: | From "Curriculum & Instruction" section of MAT checklist | 3 | none | | |
| | EDUC 582 | Evaluation of Teaching Effectiveness | 3 | none | | |
| | | Total hours toward MAT: | 36 | | | |

NOTE: To take any course listed with a field experience component, student must submit application forms by the deadline (semester BEFORE desired enrollment). See Education Office for deadline information.

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

FOURTH YEAR MASTER OF ARTS IN TEACHING

36 hrs

One academic year and 2 summer sessions; Graduate degree compiled of graduate-level coursework taken toward certification requirements (see checklist above) as well as hours required for MAT only (see list below).

OTHER REQUIREMENTS

- Admission to the Teacher Education Program; entrance must be gained prior to MAT
- Successful completion/passing of appropriate Praxis II exam
- Successful completion of program certification portfolio (EDUC 400) and exit interview

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 an undergraduate degree checklist Rev. 8/2015

THE DAYSTAR PROGRAM

Four Year Certification and Master's Degree Sequence: Secondary Certification

Complete High School
Summer One
[EDUC 100 (3 hrs); EDUC 200 (3 hrs); SOCI 270 (3 hrs)] 9 hrs

Year One
[EDUC 198 (1 hr); hours toward certification and major] 30-36 hrs

Summer Two
[EDUC 230 (3 hrs); EDUC 300 (3 hrs)] 6 hrs

Year Two
[EDUC 298 (1 hr); hours toward certification and major] 30-36 hrs

Summer Three

[EDUC 338 (3 hrs); hours toward certification or major] 6 hrs

Year Three

[EDUC 360 (3 hrs); EDUC 398 (1 hr); hours toward certification or major] 30-36 hrs **Bachelor's Degree Awarded (Approx. 138 hrs)**

Must be admitted to the MAT-Post Baccalaureate Program to be eligible for Summer Four course enrollment.

Summer Four

[EDUC 500 (3 hrs); EDUC 525 (3 hrs); EDUC 563 (3 hrs)] 9 hrs

Year Four

[1st 8 wk Session EDUC "C & I" elective (3 hrs); EDUC 400 (3 hrs)]

[2nd 8 wk Session EDUC 550 (3 hrs); EDUC 580 (3 hrs)]

[3rd 8 wk Sessions EDUC 698 (9 hrs) (this is a 16-week course)]

[4th 8 wk Session – continuation of student teaching] 18 hrs (graduate hours)

Eligible for DESE Certification after the 3rd 8 wk session

Summer Five

[EDUC 504 (3 hrs); EDUC 508 (3 hrs); EDUC 582 (3 hrs)] 9 hrs

MAT Awarded (36 hrs) Daystar Program Completed

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