

**DAYSTAR PROGRAM CHECKLIST
SECONDARY
CHEMISTRY 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 CHEMISTRY

32 hrs minimum

Grade	Course #	Course Title	Cr Hrs
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History/Philosophy of Science and Technology (2 hrs min)

	HIST 303	History and Philosophy of Modern Science	3
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Twenty (20) hours in Chemistry coursework from the following areas:

	CHEM 322	Inorganic Chemistry (<i>Inorganic Chemistry</i>)	3
	CHEM 306	Analytical Chemistry I (<i>Analytical Chemistry</i>)	3
	CHEM 310	Organic Chemistry I (<i>Organic Chemistry</i>)	3
	CHEM 310L	Organic Chemistry Laboratory	2
	CHEM 401	Introduction to Physical Chemistry/Chemical Physics (<i>Physical Chemistry</i>)	3
	CHEM 420	Biochemistry (<i>Biochemistry</i>)	3
	CHEM 420L	Biochemistry Laboratory	2
	Electives:	Chemistry Electives to complete the 20-hr minimum	0-2

Ten (10) hours of additional Science coursework from the following areas:

	PHYS 111	College Physics (<i>Physics</i>)	3
	BIOL 110	Principles of Biology I (<i>Biology</i>)	3
	GEOL 110	Introduction to Physical Geology (<i>Earth Science</i>)	3
	ENVS 115	Introduction to Environmental Science (<i>Environmental Science</i>)	3
	Electives:	Science Electives to complete the 10-hr minimum	0-2

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

PROFESSIONAL EDUCATION COURSEWORK**63 hrs**

Grade	Course #	Course Title	Cr Hrs	Field Experience (observation 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 365	Teaching Middle and Secondary Science	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.

THREE YEAR BACCALAUREATE PROGRAM**125 – 140 hrs Total****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

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- 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

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THE DAYSTAR PROGRAM

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

Complete High School	<u>Hours</u>
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 365 (3 hrs); EDUC 398 (1 hr); hours toward certification or major]	30-36 hrs
Bachelor's Degree Awarded (Approx. 138 hrs)	

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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 [1 st 8 wk Session EDUC "C & I" elective (3 hrs); EDUC 400 (3 hrs)] [2 nd 8 wk Session EDUC 550 (3 hrs); EDUC 580 (3 hrs)] [3 rd 8 wk Sessions EDUC 698 (9 hrs) (this is a 16-week course)] [4 th 8 wk Session – continuation of student teaching]	18 hrs (graduate hours)

Eligible for DESE Certification

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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