

**BEACON PROGRAM CHECKLIST
SECONDARY
BIOLOGY 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 – 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 BIOLOGY

35 hrs minimum

Grade	Course #	Course Title	Cr Hrs
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History/Philosophy of Science and Technology (3 hrs min)

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

	BIOL 290	Principles of Cell Biology (<i>Cell Biology</i>)	3
	BIOL 343	Botany (<i>Plant Form and Function</i>)	3
	BIOL 353	Zoology (<i>Animal Form and Function</i>)	3
	BIOL 342	Genetics (<i>Genetics</i>)	3
	BIOL 300	Evolution (<i>Evolution</i>)	3
	Electives:	Biological Electives to complete the 20-hr minimum (Contact the Education Department for options)	5

Twelve (12) hours of additional Science coursework from the following areas:

	Choose:	CHEM 109 - Chemistry for Biological and Health-Related Sciences or CHEM 110 - Chemistry I (<i>Chemistry</i>)	3
	PHYS 111	College Physics (<i>Physics</i>)	3
	GEOL 110	Introduction to Physical Geology (<i>Earth Science</i>)	3
	ENVS 115	Introduction to Environmental Science (<i>Environmental Science</i>)	3

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

PROFESSIONAL EDUCATION COURSEWORK

56 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	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
	EDUC 390	Education & Psychology of the Exceptional Child	3	none
	EDUC ____	Child and Adolescent Development (<i>New Course</i>); or Child Psychology and Adolescent Psychology	3	none
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	none
	EDUC 338	Content Reading and Writing	3	15 hrs
	EDUC 365	Teaching Middle School and Secondary Science	3	15 hrs
	EDUC 375	Advanced Content Methods	3	15 hrs
	EDUC 376	Adolescent Literacy	3	
	EDUC 400	Senior Seminar	3	none
Approval for Student Teaching (See Student Teaching checklist)				
	EDUC 422	Student Teaching in the Secondary Schools	12	16 weeks
		Total Credit Hours	56	
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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