

**BEACON PROGRAM CHECKLIST  
MIDDLE SCHOOL  
SCIENCE 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**

It is recommended that students seeking this certification choose a major that has similar course requirements in the degree. Your academic advisor can help you with your choice of major.

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 GENERAL SCIENCE**

**24 hrs (minimum)**

Grade	Course #	Course Title	Cr Hrs
	ASTR 108	Introduction to Astronomy	3
	BIOL 110	Principles of Biology I	3
	CHEM/PHYS 108	Physical Science Survey	3
	Choose one:	CHEM 109 - Chemistry for Biological and Health Related Sciences or CHEM 110 - Chemistry I	3
	ENVS 115	Introduction to Environmental Science	3
	GEOL 110	Introduction to Physical Geology	3
	Choose one:	HIST 303 - History and Philosophy of Modern Science or BIOL/CHEM/ENVS 105 – Essentials of Science	3
	PHYS 111	College Physics I	3

**PROFESSIONAL EDUCATION COURSEWORK**

**60 hrs**

Grade	Course #	Course Title	Cr Hrs	Field Experience (observation hrs) included
	SOCI 270	Diversity and Society	3	none
	EDUC 100	Introduction to Education	3	15 hrs
	EDUC 200	Law, Ethics, and Education	3	none
	EDUC 220	Methods of Teaching English Learners	3	None
	EDUC 230	Educational Psychology	3	none
	EDUC 300	Techniques of Teaching	3	15 hrs
	EDUC 311	Classroom Management Techniques	3	15 hrs
	EDUC 390	Education & Psychology of the Exceptional Child	3	none
	Choose option	EDUC 396 – Child and Adolescent Development; <b>or</b> EDUC 391 – Child Psychology <b>and</b> EDUC 392 – Adolescent Psychology	3	none

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

<b>Admission to the Teacher Certification Program (See Teacher Certification Program Checklist)</b>				
	EDUC 322	Educational Measurement and Assessment	3	none
	EDUC 326	Middle School Methods	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
<b>Approval for Student Teaching (See Student Teaching checklist)</b>				
	EDUC 425	Undergraduate Student Teaching	12	16 weeks
		Total Credit Hours	60	
<b>Approval for DESE Certification recommendation (See DESE Certification checklist)</b>				

**Retention Criteria:**

- Complete at least 6 hours of professional education each year
- Complete Field Experiences and receive favorable evaluations from cooperating teachers and college supervisor
- Maintain a cumulative GPA of 3.0 or above in professional education courses and content area courses

**Other requirements for certification that must be completed prior to graduation:**

- Successful completion/passing of appropriate Missouri Content Assessment (MoCA) (must be passed prior to student teaching)
- Successful completion of program certification performance assessment - MEES

\*This is not a degree checklist  
Rev. 8/2023

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