EDUCATION CERTIFICATION PROGRAM SECONDARY CHECKLIST GENERAL SCIENCE (Grades 9-12)

CONTENT AREA COURSEWORK FOR GENERAL SCIENCE



35 hrs

minimum

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

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.)

| Crada | Course# | Course Title | Cr | | |
|----------|-----------------------|--|-----|--|--|
| Grade | | nce and Technology (3 hours) | Hrs | | |
| пізсоі у | | lce and reciniology (3 nodis) | | | |
| | HIST 303 or | History and Philosophy of Madaya Caianas an Fasantiala | | | |
| | BIOL/CHEM/ENVS 105 | History and Philosophy of Modern Science or Essentials in Science | 3 | | |
| Science | | mum of 32 semester hours which must include: | | | |
| Julian | Chemistry | main of 52 semester flours which must include: | | | |
| | • | Chemistry for Biological and Health-Related Sciences or | | | |
| | CHEM 109 or 110 | Chemistry I | 3 | | |
| | CHEM 111L | Introductory Chemistry Laboratory | 2 | | |
| | Biology | | | | |
| | BIOL 110 | Principles of Biology | 3 | | |
| | BIOL 110L | Principles of Biology Laboratory | 2 | | |
| | Physics | | | | |
| | PHYS 111 | College Physics I | 3 | | |
| | PHYS 111L | Physics I Laboratory | 2 | | |
| | Earth Science | | | | |
| | GEOL 110 | Introduction to Physical Geology | 3 | | |
| | GEOL 110L | Introduction to Physical Geology Laboratory | 2 | | |
| | Astronomy | | | | |
| | ASTR 108 | Introduction to Astronomy | 3 | | |
| | Environmental Scie | ence | | | |
| | ENVS 115 | Introduction to Environmental Science | 3 | | |
| | ENVS 115L | Introduction to Environmental Science Lab | 2 | | |
| | Electives | | | | |
| | | Any Science Electives (if hours needed to fulfill 32 hours | | | |
| | Any Science | minimum) | 4 | | |

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

| 57 | hrs |
|----|-----|
| | |

| | | | | Field | | | |
|--|-----------|---|-----|--------------|--|--|--|
| | | | | Experience | | | |
| | | | | (observation | | | |
| | | | Cr | hrs) | | | |
| Grade | Course # | Course Title | 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 | | | |
| | | EDUC 396 – Child and Adolescent Development; or EDUC | | | | | |
| | Choose | 391 – Child Psychology and EDUC 392 – Adolescent | | | | | |
| | option | Psychology | 3 | none | | | |
| Admission to the Teacher Certification Program (See | | | | | | | |
| Teacher Certification Program Checklist) | | | | | | | |
| | EDUC 322 | Educational Measurement and Assessment | 3 | none | | | |
| | EDUC 338W | 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 425 | Undergraduate Student Teaching | 12 | 16 weeks | | | |
| | | Total Credit Hours | 57 | | | | |
| | | | | | | | |

Approval for DESE Certification recommendation (See DESE Certification checklist)

Retention Criteria:

- Complete at least 6 hours of professional education each year
- Complete Field Experiences and receive favorable evaluations from cooperating teachers and college supervisors
- Maintain a cumulative GPA of 3.0 or above in professional education courses and GPA of 2.5 or above in content area courses

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

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

*This is not a degree checklist Rev. 8/2025