

SUBJECT MATTER SPECIALIZATION: PHYSICAL SCIENCE (PHYSICS SPECIALIZATION)
GUIDELINES FOR DETERMINING ELIGIBILITY FOR ADMISSION TO
EDUCATION PROGRAM, CLINICAL PRACTICE AND COMPLETION OF PROGRAM

All native and transfer students interested in pursuing K-12 Physical Science (Physics Specialization) certification in the Subject-Matter Education program and/or seeking enrollment in Clinical Practice (student teaching) must meet the following requirements:

For entry into the Subject-Matter Education Program:

1. *Physical Science (Physics and Chemistry classes)* GPA* of 2.00 or above
2. Grades of C- or better in all Physical Science (Physics and Chemistry) classes
3. Grades of C or higher in “sophomore” courses (i.e., Teaching in Learning Communities I & II, Teaching Literacy, and Educational Technology)
4. “Meets Expectations” on dispositional reports from College of Education instructors and cooperating teachers
5. Overall GPA of at least 2.75
6. Passing score on Praxis I/PPST Exam (Reading: 175; Math: 174; Writing: 173)
7. *Required* and/or *Restricted Elective* physical science courses (as listed below) completed:
 - Undergraduates: at least 15 semester hours

For enrollment in Clinical Practice:

1. *Physical Science (Physics and Chemistry classes)* GPA* of 2.00 or above
2. Grade of C- or better in all Physical Science (Physics and Chemistry) classes
3. Completion of at least 30 semester hours of *Required* and/or *Restricted Elective* physical science courses (as listed below)
4. Passing scores (152, 141, 152) on the PRAXIS II exam (Chemistry: Content Knowledge (20245), Physics Content Knowledge (10265), and Gen Science Knowledge (10435))
5. Average grade of 3.0 in professional courses with no course grade lower than C and no *Incompletes*
6. Overall GPA of at least 2.75
7. Acceptable dispositional report(s) from university instructors and cooperating teachers
1. “Meets Expectations” on *Curriculum Study Report* (Teaching and Learning A Science), *Research Based Lab Project and Analysis Paper* (Teaching and Learning B Science), *Safety Module* (Teaching and Learning A Science) and *Science Inquiry Based Unit* (Teaching and Learning A & B Science)

For successful program completion:

1. “Meets Expectations” on all indicators (COE and Physical Science program-specific) of final Clinical Practice Evaluations
2. Overall GPA of 2.75
3. Average grade of 3.0 in professional courses with no course grade lower than C and no *Incompletes*
4. Achieve minimum *Physical Science GPA** (2.00) with no grade lower than C- in physics and chemistry classes
5. “Meets Expectations” on *Impact on Student Learning Project*
6. “Meets Expectations” on *Science Inquiry Unit Plan Project*

COURSE TITLE	CREDITS	NUMBER
College Composition I	3	COMP 01.111
College Composition II	3	COMP 01.112
Philosophy of Science (WI)	3	PHIL 09.369
Calculus I	4	MATH 01.130
Calculus II	4	MATH 01.131
Introduction to Scientific Programming or Computer Science Programming	3	CS 01.104 or CS04.103
Geology I-LAB	4	GEO 06.130
Approved Astronomy, Atmospheric science or Geology course	3-4	XXXXX
Chemistry I	4	CHEM 06.100
Chemistry II	4	CHEM 06.101
Organic Chemistry I	4	CHEM 07.200
Quantitative Analysis	4	CHEM 09.250
Introductory Mechanics	4	PHYS 02.200
Introductory Thermodynamics, Fluids, Waves & Optics	4	PHYS 02.201
Introductory Electricity and Magnetism	4	PHYS 02.210
Modern Physics	4	PHYS 02.300
Astronomy and Astrophysics	4	PHYS 11.241
1 Approved Physics elective	3-4	XXXXX
2 Approved 300 plus level Physics course	3-4	XXXXX

- Notes:
- Please note that at least one of the approved physics course should be 4 credits to provide you with the state based requirements completion of an overall 30 credits in physics classes.
 - For all students, all of the required courses and any eligible electives *must* be used in the calculation of the Physical Science (Physics and Chemistry classes)GPA (i.e., none of these courses is to be excluded in GPA calculation).
 - For transfer (and native students taking any of these courses at other institutions), the Physical Science (Physics and Chemistry classes)GPA is to be calculated from transcripts and coursework at Rowan.

I have read and understand that the above guidelines and courses are required to continue in and to complete the Subject Matter Specialization: PHYSICAL SCIENCE (Physics Specialization) Program.

Signature _____

Date _____

**CHECKLIST FOR DOCUMENTING ELIGIBILITY FOR
PHYSICAL SCIENCE (PHYSICS SPECIALIZATION) SUBJECT-MATTER EDUCATION**
(to take effect for Fall 2010 Program Entry)

Teacher Candidate: _____

All native and transfer students seeking admission into the Physical Science (Physics Specialization) Subject-Matter Education Program must meet all of the following requirements:

Requirement	Candidate's Qualifications	Meet? (Y/N) Date(s)
Grades of C or higher in "sophomore" courses	Grades: Teaching in Learning Communities I: _____ Teaching in Learning Communities II: _____ Teaching Literacy: _____ Educational Technology: _____ COE Advisor's Verification (Initials):	
"Meets Expectations" on dispositional reports from College of Education instructors and cooperating teachers	COE Advisor's Verification (Initials):	
Successful completion (i.e., grades of C- or better) of at least 15 semester hours of <i>Required</i> and/or <i>Restricted Elective</i> physical science (Physics and Chemistry) classes (as listed in the <i>BS Physical Science Academic Program Guidelines: http://www.rowan.edu/colleges/las/departments/physics/acad/prog-phycilist.html</i>)	Courses Completed (with semester hours and grade) _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ Advisor's Verification (Initials):	
Grades of C- or better in all Physical Science (Physics and Chemistry) classes	Advisor's Verification (Initials):	
Physical Science (Physics and Chemistry) GPA* of 2.00 or above and Overall GPA of 2.75 or above	Physical Science (Physics and Chemistry) GPA: _____ Overall GPA: _____ Advisor's Verification (Initials):	

Passing score on Praxis I/PPST Exam (Reading: 175; Math: 174; Writing: 173)	Score: COE Advisor's Verification (Initials):	
Meets all requirements and is eligible to register for <i>Teaching and Learning A: Science</i>		

Advisor's Signature: _____ **Date:** _____

Overall GPA of 2.75 or above	<p>_____</p> <p>Overall GPA:</p> <p>_____</p> <p>Advisor's Verification (Initials):</p>	
Passing scores(152, 141,152) on the PRAXIS II exams: (Chemistry: Content Knowledge (20245), General Science: Content Knowledge Part 1 (10435) and Physics Content Knowledge (10265))	<p>Score:</p> <p>Chemistry Content Knowledge (20245) _____</p> <p>General Science Content Knowledge (10435)</p> <p>_____</p> <p>Physics Content Knowledge (10265) _____</p> <p>COE Advisor's Verification (Initials):</p>	
<p>Meets all requirements and is eligible to register for <i>Clinical Practice</i></p>		

Advisor's Signature: _____ **Date:** _____