

**SUBJECT MATTER SPECIALIZATION: PHYSICAL SCIENCE (CHEMISTRY 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 (Chemistry 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) 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. of *Required* and/or *Restricted Elective* physical science (physics and chemistry) classes (as listed below) completed:
  - Undergraduates: at least 15 semester hours

**For enrollment in Clinical Practice:**

1. *Physical Science (Physics and Chemistry) 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, Restricted and/or Free 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
8. “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 (Physics and Chemistry) GPA\** (2.00) with no grade lower than C- in physical science (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	GEOG 06.130
Approved Astronomy, Atmospheric science or Geology course	3-4	XXXXXX
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 02.201
Modern Physics	4	PHYS 02.300
Organic Chemistry II	4	CHEM 07.201
Physical Chemistry I	4	CHEM 08.400
Biochemistry	4	CHEM 07.348
Approved 300 + level Chemistry	4	XXXXXX

Notes:

- 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) 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) 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 (Chemistry Specialization) Program.**

Signature \_\_\_\_\_

Date \_\_\_\_\_

**CHECKLIST FOR DOCUMENTING ELIGIBILITY FOR  
PHYSICAL SCIENCE (CHEMISTRY 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 (Chemistry 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	<b>Grades:</b> Teaching in Learning Communities I: _____  Teaching in Learning Communities II: _____  Teaching Literacy: _____  Educational Technology: _____  <b>COE Advisor's Verification (Initials):</b>	
"Meets Expectations" on dispositional reports from College of Education instructors and cooperating teachers	<b>COE Advisor's Verification (Initials):</b>	
Successful completion (i.e., grades of C- or better) of at least 15 semester hours of <i>Required, Restricted Elective and/or Free Electives</i> physical science (physics and chemistry) classes (as listed in <i>BS Physical Science Chemistry academic Guidelines</i> <a href="http://www.rowan.edu/colleges/las/departments/physics/acad/chemspecialization.htm">http://www.rowan.edu/colleges/las/departments/physics/acad/chemspecialization.htm</a> )	<b>Courses Completed (with semester hours and grade)</b> _____ ( sh): _____  _____ ( sh): _____  _____ ( sh): _____  _____ ( sh): _____  _____ ( sh): _____  _____ ( sh): _____  _____ ( sh): _____  <b>Advisor's Verification (Initials):</b>	
Grades of C- or better in all Physical Science (Physics and Chemistry) classes	<b>Advisor's Verification (Initials):</b>	
Physical Science (Physics and Chemistry) GPA* of 2.00 or above and Overall GPA of 2.75 or above	<b>Physical Science (Physics and Chemistry) GPA: _____</b>	

	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: \_\_\_\_\_

**CHECKLIST FOR DOCUMENTING ELIGIBILITY FOR SUBJECT-MATTER EDUCATION  
CLINICAL PRACTICE (PHYSICAL SCIENCE- CHEMISTRY SPECIALIZATION)**

Teacher Candidate: \_\_\_\_\_ Banner ID: \_\_\_\_\_

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

<b>Requirement</b>	<b>Candidate's Qualifications</b>	<b>Meet? (Y/N) Date(s)</b>
Grades of C or higher in "junior" courses	<b>Grades:</b> Teaching and Learning A: Science: _____  Teaching and Learning B: Science: _____  Differentiated Instruction: _____  <b>COE Advisor's Verification (Initials):</b>	
"Meets Expectations" on <i>Curriculum Study Report</i> (Teaching and Learning A Science), <i>Research Based Lab Project and Analysis Paper</i> (Teaching and Learning B Science), <i>Safety Module</i> (Teaching and Learning A Science) and <i>Science Inquiry Based Unit</i> (Teaching and Learning A & B Science)	<b>TNLB Instructor's Verification (Initials):</b>	
"Meets Expectations" on dispositional reports from College of Education instructors and cooperating teachers	<b>COE Advisor's Verification (Initials):</b>	
Successful completion (i.e., grades of C- or better) of at least 30 semester hours of <i>Required, Restricted Elective and/or Free Electives</i> physical science (physics and chemistry) classes (as listed in <i>BS Physical Science Chemistry academic Guidelines</i> <a href="http://www.rowan.edu/colleges/las/departments/physics/acad/chemspecialization.htm">http://www.rowan.edu/colleges/las/departments/physics/acad/chemspecialization.htm</a> )	_____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ _____ ( sh): _____ <b>Advisor's Verification (Initials):</b>	
Grades of C- or better in all Physical Science (physics and chemistry) classes	<b>Advisor's Verification (Initials)</b>	
Physical Science (Physics and Chemistry) GPA* of 2.00 or above	<b>Physical Science (Physics and Chemistry) GPA: _____</b>	

<p>Average grade of 3.0 in professional education courses with no course grade lower than C and no <i>Incompletes</i></p> <p>Overall GPA of 2.75 or above</p>	<p><b>Professional Education Course GPA:</b> _____</p> <p><b>Overall GPA:</b> _____</p> <p><b>Advisor's Verification (Initials):</b></p>	
<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>	<p><b>Score:</b>  Content Knowledge (20245) _____  General Science Content Knowledge (10265) _____  General Science: Content Knowledge Part 1 (10435) _____</p> <p><b>COE Advisor's Verification (Initials):</b></p>	
<p><b>Meets all requirements and is eligible to register for <i>Clinical Practice</i></b></p>		

**Advisor's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_