

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

All native, transfer, and post-baccalaureate students interested in pursuing K-12 Physics 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. *Physics GPA** of 2.00 or above
2. Grades of C- or better in all Physics 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 content major courses* and/or *Restricted Elective* physics courses (as listed below) completed:
 - Undergraduates: at least 15 semester hours

For enrollment in Clinical Practice:

1. *Physics GPA** of 2.00 or above
2. Grade of C- or better in all Physics classes
3. Completion of at least 30 semester hours of *Restricted and or Required Elective* physics courses (as listed below)
4. Passing score (141, 152) on the PRAXIS II exam (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 Physics 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 *Physics GPA** (2.00) with no grade lower than C- in Physics courses
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
Calculus III	4	MATH 01.230
Linear Algebra	4	MATH 01.210
Differential Equations	3	PHY 02.470
Introduction to Scientific Programming or Computer Science and Programming	3	CS 01.104 or CS 04.103
Chemistry I	4	CHEM 06.100
Chemistry II	4	CHEM 06.101
Introductory Mechanics	4	PHYS 02.200
Introductory Thermodynamics, Fluids, Waves and Optics	4	PHYS 02.210
Introductory Electricity and Magnetism	4	PHYS 02.201
Modern Physics	4	PHYS 02.300
Analytical Mechanics	4	PHYS 02.315
Electricity and Magnetism I	4	PHYS 02.430
Quantum Mechanics I	4	PHYS 02.401
Statistical Physics	3	PHYS 02.387
Advanced Lab	4	PHYS 02.440
2 Physics elective	6-8	XXXXXX
1 Approved restricted elective	3-5	XXXXXX

- Notes:
- For all students, all of the required courses and any eligible electives *must* be used in the calculation of the Physics 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 Physics 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: Physics Program.

Signature _____

Date _____

**CHECKLIST FOR DOCUMENTING ELIGIBILITY FOR SUBJECT-MATTER EDUCATION CLINICAL PRACTICE
(PHYSICS)**

Teacher Candidate: _____ Banner ID: _____

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

Requirement	Candidate's Qualifications	Meet? (Y/N) Date(s)
Grades of C or higher in "junior" courses	Grades: Teaching and Learning A: Science: _____ Teaching and Learning B: Science: _____ Differentiated Instruction: _____ COE Advisor's Verification (Initials):	
"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)	TNLB Instructor'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 30 semester hours of <i>Required</i> and/or <i>Restricted Elective</i> physics courses (as listed in the online <i>BS Physics academic program guidelines</i> : http://www.rowan.edu/colleges/las/departments/physics/acad/prog-physicslist.html)	_____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ _____ (sh): _____ Advisor's Verification (Initials):	
Grades of C- or better in all Physics classes	Advisor's Verification (Initials)	
Physics GPA* of 2.00 or above	Physics GPA: _____	
Average grade of 3.0 in professional education courses with no course grade lower than C and no <i>Incompletes</i>	Professional Education Course GPA: _____	
Overall GPA of 2.75 or above	Overall GPA: _____ Advisor's Verification (Initials):	
Passing score (141, 152) on the PRAXIS II exams: Physics: Content Knowledge (10265) General Science Content Knowledge (10435)	Score: Physics: Content Knowledge (10265) _____ General Science Content Knowledge (10435) _____ COE Advisor's Verification (Initials):	
Meets all requirements and is eligible to register for <i>Clinical Practice</i>		

Advisor's Signature: _____ Date: _____