

MASTER OF ARTS IN TEACHING PROGRAM

The mission of the secondary physics education program is to prepare professionals who understand that pedagogical choices grow from a deep understanding of the discipline of physics in relation to a consideration of the unique needs of learners being taught. That consideration honors the diverse nature of students in the classroom and grows from an understanding of the community being served. Starting with this pedagogical-content knowledge, candidates construct standards-based plans that are grounded in a study of best practice as defined by research, models of excellence in the field, and creative contemplation. Such construction forms the foundation of a practice pushed forward by reflection, thoughtful revision, and dialogue with other professionals. Candidates understand that this practice grows throughout ones career.

Course Requirements

Professional Education Courses Required for Certification

- EDUC 502.2 Intro. to the Education of English Language Learners (spring)
- EDUC 503 Student Development & Instructional Design (40 hr Stage 1&2 Field Exp)
- EDUC 507 Culture, Community & Diversity: Intro. to Critical Pedagogy (40 hour Stage 1&2 Field Experience/ fulfills M3)
- EDUC 530.2 Computer Technology in the Classroom
- EDUC 534 Including Students with Disabilities (spring)
- EDUC 540 Reflective Teaching (offered fall only; 40 hour Stage 3 Field Exp.)
- EDUC 564 Curriculum and Instruction in the Sciences (offered fall only; 110 hour Stage 3 Field Experience)
- EDUC 575-7 Student Teaching
- EDUC 578 Seminar in Secondary Student Teaching

Physics Majors Choose Between Two Tracks: Physics/Math Or Physics Physics/Math Track

Physics/Math Track (6 physics courses)

PHYS 111 Introductory Physics I

PHYS 112 Introductory Physics II

PHYS 221	Linear Electronics (fall)
PHYS 222	Modern Physics (spring)
PHYS 331*	Mechanics (alternate yrs)
PHYS 333 * Other Physics c	Optics (alternate yrs) ourses may be substituted with instructor's permission.
Mathematics (6 courses)	
MATH 170	Analytic Geom. & Calc. I
or substitute Math 106 /166	
MATH 171	Analytic Geom. & Calc. II
MATH 211	Analytic Geom. & Calc. III
MATH 221	Differential Equations (spring)
MATH 327	Advanced Calculus (fall)
or PHYS 343 Intro.to Mathematical Physics	
Math ###	Mathematics Elective
Chemistry (1 course)	
CHEM 113	General Chemistry
Physics Trac	
Physics Track (10 courses)	
PHYS 111	Introductory Physics I
PHYS 112	Introductory Physics II
PHYS 222	Modern Physics
PHYS 331	Mechanics
PHYS 341	Quantum Mechanics
PHYS 345-6	Electric & Magnetic Fields Plus 3 additional
	courses in Physics
Mathematics (5 courses)	
MATH 170	Analytic Geom. & Calc. I
or	substitute Math 106 /166
MATH 171	Analytic Geom. & Calc. II
MATH 211	Analytic Geom. & Calc. III
MATH 221	Differential Equations (spring)
MATH 327*	Advanced Calculus (fall) (Continued
	Continued



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MATH 231 Mathematical Statistics I

*If PHYS 343 is taken, MATH 327 may be omitted. Chemistry (1 course)

CHEM 113 General Chemistry

Teacher Action Research

- EDUC 500 The Teacher as Inquirer The Teacher as Researcher EDUC 506
- EDUC 508 The Teacher as Evaluator
- EDUC 700 Curriculum Development and Action Research
- EDUC 701 Writing a Review of Educational Research EDUC 702 Reflective Practice Seminar
- EDUC 704-5 Literacy-Based Action Research Thesis

The Field Experience Program

The purpose of the field experience is to provide students with appropriate classroom experiences at each level of their coursework. These experiences are meant to assist the student in determining whether teaching is an appropriate career choice.

Several courses in the professional education sequence require day-time field experiences. These are: EDUC 503, Student Development & Instructional Design, and EDUC 507, Culture, Community & Diversity: Intro. to Critical Pedagogy, both of which require a 40 hour Stage1&2 field experience; EDUC 540, Reflective Teaching in Secondary Schools, with a 40 hour Stage 3 field experience; and EDUC 564, Curriculum and Instruction in the Secondary - Science, with a 110 hour Stage 3 prestudent teaching field experience. The Education Department's Director of Field Experiences is responsible for securing all field placements which will be in local public or private schools. Candidates who are not able to complete these experiences will be required to take EDUC 586.2 Early Field Experience or EDUC 558.2 Pre-Student Teaching Field Experience I prior to acceptance into student teaching.

Stage 4 Student Teaching is the culminating experience of the teacher preparation program. It takes place under the supervision of qualified program faculty and cooperating teachers. Student teachers will have two placements during the semester. All U.S. placements are in Pennsylvania schools near the College. In addition to the daily classroom experience, students are required to attend a weekly seminar with their College supervisors.

Clearance Requirements

There are three clearance checks required of ALL STUDENTS by the Pennsylvania Department of Education at every level of Field Experience. These are: FBI Federal Criminal History Record, Pennsylvania State Police Criminal Record Check, and Pennsylvania Child Abuse History Clearance. Students will be placed in field experiences only if all background checks are clear of record. Clearances must be updated annually and valid for the entire field placement. Unless clearances have been updated, students will be unable to register for Education courses with field experiences.

In addition, all students must have a TB test within three months of the start of any field placement.

Important Guidelines

(Course Requirements Continued)

- Students must have an overall GPA of 2.7 in order to take education courses • numbered above 510.
- All education courses must be completed prior to beginning student teaching. No other courses should be taken during the student teaching semester.
- Students must have prior written approval by the program coordinator if they plan to complete any of the these courses at another institution.

The Requirement for Basic Skills Assessment

Students in all Pennsylvania Instructional I teacher certification programs must successfully complete basic skills assessments in reading, mathematics and writing. Currently there are two testing options. You may take either the Pearson PECT Pre-service Academic Performance Assessment (PAPA) or the ETS Praxis Core Academic Skills for Educators (CORE) exams. Please consult test provider websites for additional information regarding test content, testing locations and registration procedures. See: http:// www.pa.nesinc.com, select 'tests', then 'PAPA' and/or https://www.ets.org/praxis/about/core/.

Students may qualify for exemption from the basic skills assessment exams based on their SAT or ACT scores. Please contact the Education Department regarding exemptions and other test related questions you may have.

Candidates are encouraged to take the PAPA or CORE exams prior to or during the sophomore year. If not exempt, all teacher certification candidates will be required to pass these tests prior to admission into the teacher certification program and participation in any Stage 3 Field Experiences.

A content knowledge Praxis Level II tests administered by ETS is also required. Content knowledge tests should be taken after most appropriate course work has been completed, but prior to student teaching. The Praxis Series Registration Bulletin found online at: http://www.ets.org/praxis/about/bulletin/ will have the most up-to-date information. Test scores

should be reported to Moravian College (RA2418) and the Pennsylvania Department of Education. Students who test in another state must list PDE as a score recipient to avoid processing delays of their teaching certificate. Test results for in state tests are automatically reported to the Pennsylvania Department of Education.

For additional information, contact Dr. Tristan Gleason at (610) 861-1452, or email at gleasont@moravian.edu.

Program Advisors

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***PAPA Modules: Reading/Math/Writing** *or CORE Modules: **Reading/Math/Writing** *or testing EXEMPTION based on SAT/ACT scores ***REQUIRED PRIOR TO** Acceptance into the Teacher Certification Program and

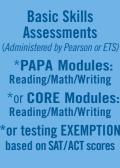
Participation in STAGE3 PST Field Experiences.

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Content Area Test (One Required, Administered by ETS)

Physics: *Content Knowledge Test Code: 5265

****REQUIRED PRIOR TO** CERTIFICATION IN PENNSYLVANIA.



Testing

Requirements for

Physics (7-12)

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