

MASTER OF ARTS IN TEACHING PROGRAM

The mission of the secondary chemistry education program is to prepare professionals who understand that pedagogical choices grow from a deep understanding of the discipline of chemistry 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 Secondary - Science (offered fall only; 110

hour Stage 3 Field Experience)

EDUC 575-7 Student Teaching

EDUC 578 Seminar in Secondary Student Teaching

Chemistry Major Course Requirements In Chemistry, Mathematics, and Physics

Chemistry: (9 Courses)

CHEM 113 General Chemistry I CHEM 114 General Chemistry II CHEM 211 Organic Chemistry I CHEM 212 Organic Chemistry II

CHEM 220.2 Methods in Chem. Research

CHEM 222 Quantitative Analysis CHEM 331-2 Physical Chemistry

CHEM 370.2 Senior Seminar in Chemistry

CHEM ### One elective selected by student in consultation

with advisor. CHEM 341, Advanced Inorganic Chem. is recommended. U1 courses do not qualify

for this elective.

Mathematics: (2 Courses)

MATH 170 Analytic Geometry & Calculus I (or substitute Math 106 /166)

MATH 171 Analytic Geometry & Calculus II

Physics: (2 Courses)

PHYS 111 Introductory Physics I

PHYS 112 Introductory Physics II

Additional Science Electives (2 courses)

The program provides for two science electives. Since chemistry teachers are considered eligible by the State for also teaching general science, a student should endeavor to broaden his/her science background with courses appropriate to his/her interests and previous training. A course in the biological sciences and a course in the earth sciences are strongly encouraged. The recommended elective courses include astronomy, meteorology, geology, general zoology, introductory botany, biochemistry, computer science, and statistics.

Teacher Action Research

EDUC 500 The Teacher as Inquirer EDUC 506 The Teacher as Researcher EDUC 508 The Teacher as Evaluator

(Continued on Powerse



EDUC 700 Curriculum Development and Action Research

EDUC 701 Writing a Review of Educational Research

(Course Requirements Continued)

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 Stage 1&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 Secondary - Science, with a 110 hour Stage 3 pre-student 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

- 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

Testing Requirements for Chemistry (7-12)

1

Basic Skills Assessments

(Administered by Pearson or ETS)

*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.

2

Content Area Test

(One Required,

Administered by ETS) **Chemistry:**

*Content Knowledge Test Code: 5245

**REQUIRED PRIOR TO CERTIFICATION IN PENNSYLVANIA.

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

Chemistry Department Chair: Dr. O. Carl Salter

Education Department Chair: Dr. Joseph Shosh (610) 861-1482 **I** shoshj@moravian.edu

Director, Secondary Education: Dr. Tristan Gleason Post-Baccalaureate Advisor: Dr. John Dilendik (610) 861-1452 **I** gleasont@moravian.edu

(610) 861-1557 **I** dilendikj@moravian.edu