

# THE TEACHER EDUCATION PROGRAM FOR SECONDARY CHEMISTRY

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.

# **Important Guidelines**

- Students must have an overall QPA of 2.7 in order to take education courses at the 200 level or above.
- All education courses must be completed prior to beginning student teaching. No other courses should be taken during the student teaching semester which is completed in the senior year.
- Students must have prior written approval by the program coordinator if they plan to complete any of the these courses at another institution.

# **Professional Education Courses Required For Certification**

#### Recommended for tRecommended for the freshman year, spring

EDUC 160 Culture, Community & Diversity: Intro. to Critical Pedagogy (40 hour Stage 1&2 Field Experience/ fulfills M3)

#### **Recommended for the sophomore year**

EDUC 130 Student Development & Instructional Design (40 hr Stage 1&2 Field Ex	EDUC 130	Student Development	: & Instructional D	Design (40 hr Stage	1&2 Field Exp
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EDUC 100.2 Intro. to the Education of English Language Learners (spring)

EDUC 244 Including Students with Disabilities (spring or during Junior year)

EDUC 140.2 Computer Technology in the Classroom

#### **Recommended for the junior year**

EDUC 260 Reflective Teaching (offered fall only; 40 hour Stage 3 Field Exp.)

#### Recommended for the senior year

EDUC 364 Curriculum and Instruction in Science (offered fall only; 110 hour Stage 3

Field Experience)

EDUC 375-7 Student Teaching

EDUC 378 Seminar in Secondary Student Teaching

### Chemistry major requirements in the sciences and science-related areas

#### **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.



# **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.

#### The LinC Curriculum

The Pennsylvania Department of Education mandates that all teacher certification candidates complete the courses bulleted below. These courses also satisfy Moravian College LinC requirements and the liberal education guidelines for most Moravian students. Exceptions are listed in the catalog under the topics "Individually Designed Majors" and "Add Venture Programs."

- First Year Seminar (F1)
- One course in American or English Literature (ENG 101, 102, 103, 104, 105 or acceptable Special Topics) (M2)
- One and one-half course units in Math (F2) (the LinC requirement is for one course unit; PDE and the Moravian Education Department mandate an additional 0.5 course unit)

Moravian College is accredited by the Middle States Association of Colleges and Secondary Schools and is an institutional member of the Association for Continuing Higher Education. The information in this document is provided for the assistance of the student. It is accurate at the time of printing but is subject to change from time to time as deemed appropriate by the College in order to fulfill its role and mission, or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and without obligation, and unless specified otherwise, are effective when made.

# MORAVIAN COLLEGE

# 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 130, Student Development and Instructional Design, and EDUC 160, Culture, Community, & Diversity: Introduction to Critical Pedagogy, both of which require a 40 hour Stage1&2 field experience; EDUC 260, Reflective Teaching, with a 40 hour Stage 3 field experience; and EDUC 364, Curriculum and Instruction in 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 158.2 Stage 1&2 Field Experience or EDUC 358 Stage 3 Pre-Student Teaching Field Experience 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.

## The Required 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 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/. Candidates may combine passing scores from individual PAPA and CORE tests to meet the basic skills reading, math, and writing requirement.

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 Basic Skills Test (PAPA or CORE) 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 be enrolled in any 300 level and above courses in Education and 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: <a href="http://www.ets.org/praxis/about/bulletin/">http://www.ets.org/praxis/about/bulletin/</a> 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.

Testing Requirements for Chemistry (7-12)

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\*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.

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#### **Content Area Test**

(One Required, Administered by ETS)

\*\*Chemistry: Content Knowledge Test Code: 5245

\*\*REQUIRED PRIOR TO CERTIFICATION IN PENNSYLVANIA.