

**MASTER'S (M.S.) DEGREE IN CURRICULUM AND INSTRUCTION
WITH LICENSURE OPTION (FOR THOSE WITHOUT A TEACHING CREDENTIAL)**

**Physical Science (Chemistry and Physics) Licensure (Grades 7-12)
Information Sheet**

The program is a Master of Science degree, which leads to licensure in a chosen teaching field, and is open to highly qualified students who hold the B.A., B.F.A., or B.S. degree. It is designed to give the student concentrated study in one of the licensure areas listed for high school (grades 7-12), multi-age (grades P-12), vocational family and consumer science (grades 4-12), and intervention specialist (grades P-3 or K-12)

Educational Foundations (10)		<u>Credits</u>
5100:604	Seminar in Cultural Foundations of Education	3
5100:620	Psychology of Instruction for Teaching and Learning	3
5100:695	Field Experience: Master's	1
5100:642	Seminar in Measurements & Evaluation	3

Curriculum and Instruction (19)		<u>Credits</u>
5500:575	Instructional Technology Applications	3
5500:617	Licensure Seminar in Curricular and Instructional Studies	3
5500:619	Instructional and Management Practices (<i>take in conjunction with 5500:693-011</i>)	3
5500:693-011	Field Experience: Master's	1
5500:520	Advanced Instructional Techniques (<i>take in conjunction with 5500:693-021</i>)	3
5500:693-021	Field Experience: Master's	1
5500:629	Reading Programs in Secondary Schools	3
5500:XXX	Electives in curriculum or teaching practices approved by advisor	2

Area of Concentration (9)
Select 9 credits at 500-level or above that are in teaching field.

Field Experience (9)		<u>Credits</u>
5500:694-xxx	Field Experience: Classroom Inst. ¹	8
5500:692-031	Field Experience: Master's Colloquium	1

A comprehensive exam is required.

MINIMUM CREDIT HOURS REQUIRED 47
(Plus any additional courses needed from Teaching Field requirements)

Content Requirements for Chemistry and Physics Licensure Students – 81 hrs.

<u>Science Core</u>		<u>Credits</u>
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Lab	1
3150:153	Principles of Chemistry II	3
3370:101	Introductory Physical Geology	4
3370:102	Introductory Historical Geology	4

Complete <u>one</u> of two physics options:		
3650:261	Physics Life Science I	4
3650:262	Physics Life Science II OR	4
3650:291	Elem. Class. Physics I	4
3650:292	Elem. Class. Physics II	4

<u>Physics</u>		<u>Credits</u>
3650:301	Modern Physics	3

3650:322	Intermediate Lab I	3
3650:323	Intermediate Lab II	3
3650:130	Descriptive Astronomy	4
Complete <u>one</u> of the following courses:		
3650:267	Life Science Physics Comp.	1
3650:293	Class. Physics Comp.	1

Complete <u>one</u> of the following courses:		
3650:133	Music, Sound & Physics	4
3650:137	Light	4

<u>Chemistry</u>		<u>Credits</u>
3150:154	Qualitative Analysis	2
3150:263	Organic Chemistry I	3
3150:264	Organic Chemistry II	3
3150:265	Organic Chemistry Lab I	2
3150:313	Physical Chemistry I	3
3150:380	Advanced Chemistry Lab I	2
3150:401/501	Biochemistry I	3
3150:423/523	Analytical Chemistry I	3

<u>Mathematics</u>		<u>Credits</u>
3450:221	Anal. Geometry/Calculus I (pre-req 3450:149 or eligibility for calculus)	4
3450:222	Anal. Geometry/Calculus II	4
3470:260	Basic Statistics	3

Additional Requirements to Add Integrated Science Licensure:		<u>Credits</u>
3370:128	Geology of Ohio	1
3370:171	Intro to the Oceans	3
3370:137	Earth's Atmosphere & Weather	1
3370:200	Environmental Geology	3
3100:217	General Ecology	3
3100:265	Human Physiology	4

Note: These 15 hours are not required for physics and chemistry licensure.

For more information, contact:

Dr. Nidaa Makki
Assistant Professor
Zook 107
(330) 972-6955
nmakki@uakron.edu

¹For admission to student teaching, students must have the approval of the Student Teaching Committee, based upon approved application to student teaching, passing PRAXIS II subject test, and approved portfolio. Planned teaching experience in schools selected and supervised by the Office of Field Experiences.

Applications for graduation are due as follows:
January 3 for May graduation
May 3 for August graduation
August 3 for December graduation



College of Education
Department of Curricular and Instructional Studies
132 Zook Hall
Akron, Ohio 44325-4205
(330) 972-7765

**MASTER'S (M.S.) DEGREE WITH LICENSURE OPTIONS
(FOR THOSE WITHOUT A TEACHING CREDENTIAL OR THOSE WHO DO
NOT SEEK TO ADD INTERVENTION SPECIALIST LICENSURE)**

**College of Education Teacher Education
Program Requirements:**

All students are expected to complete an application for admission. Applications are available online at <http://www.uakron.edu/gradsch/>

Speech and Hearing: Ohio law requires that all education students take a speech and hearing test through a licensed professional and/or approved clinic.

Bureau of Criminal Investigation Clearance: Students must provide evidence of a current BCI clearance for admission to any teacher education licensure program. A BCI clearance is valid for 12 months from date of issue. If the BCI clearance has expired when application for an Ohio teacher's license is submitted, a second BCI clearance will be required. An individual who has not been a continuous resident of Ohio for the five year period preceding the clearance request must present both a BCI and an FBI clearance report.

Basic Computer Literacy Skill: A teacher education licensure applicant must provide evidence of basic computer literacy skills as a pre-admission requirement for any teacher education licensure program. The applicant must demonstrate mastery of hands-on computer skill by taking a test to be developed and administered in the one of the college's computer laboratories. The course 5100:205 (1) Fundamental Educational Computing Skills was created to serve the needs to students who are not computer literate upon entry to a teacher education program.

References: Students are expected to ask two individuals, not related to them but who know them well, to complete a reference form attesting to their interpersonal skills and motivation to teach.

Program Area of Study: All students are expected to comply with requirements specified by the program to which they are applying.

Advisement: All students will be assigned an advisor, and will need to complete an individualized program course distribution (PCD) with their advisor or other approved program designee. This PCD needs to be completed during the first semester of admission. In keeping with the philosophy of the College of Education's teacher education curriculum, "Educator as Decision Maker," students are encouraged to see their program advisor as frequently as necessary to assure they are maintaining positive progress in their program.

Retention: Retention of students in all programs will be evaluation-based. Students will have opportunities to upgrade their skills and achievement in areas where such needs may exist. Completion of the program requirements will be reviewed annually by the student and advisor. Areas of strengths and weakness are to be evaluated, and if a student presents an area of weakness, the advisor will refer the student for remediation. Approval to student teach is contingent on the student's progress through the program of study with satisfactory grades. For

admission to student teaching, students must have the approval of the Student Teaching Committee, based upon approved application to student teaching, passing PRAXIS II subject test, and approved portfolio. Planned teaching experience in schools selected and supervised by the Office of Field Experiences.

Licensure: After graduation, students may apply for licensure through the Office of Student Services. The State of Ohio requires all applicants for licensure to pass all the appropriate examination(s) for intended area(s) of licensure. Information about specific requirements for specific licenses can be obtained from the department.

Coursework: Coursework over ten years old may not be applicable for licensure. Check with your advisor regarding specific requirements.

University of Akron Graduate School Requirements:

Complete and submit the application and application fee and, official transcript of all completed collegiate work.

A 2.75 undergraduate grade point average is required for full admission and a 2.5 grade point average is required for provisional admission to the M.A. program. Graduation is contingent on successful completion of coursework, student teaching, and GPA of 3.0 or better.

Academic Advisor: Upon admission to Graduate School an academic advisor will be assigned to assist you in the completion of degree requirements. As soon as you are admitted, meet with your advisor to plan your program.

Academic Program: This program requires successful completion of a minimum of 47 graduate hours and a comprehensive examination. A program form (PCD) must be completed by your advisor and signed by you and your advisor. *No course may be over six years old at the time of graduation.* Additional undergraduate or graduate course work may be needed for teacher licensure in your content area.

Advancement to Candidacy and Graduation Applications are due January 3 for May graduation; August 3 for December graduation; and May 3 from August graduation.

Additional Requirements: Consult the Graduate Bulletin.