

# Undergraduate Degree

## Physics Licensure (Grades 7-12) Information Sheet

**General Education – 42 hrs. (See Undergraduate Bulletin)**

**Professional Education Requirements for Undergraduate Physics Licensure Students – 41 hrs. required with a “C” or better and a 2.5 GPA or better**

### Credits

Phase One: Learning about Learners

5100:200	Intro to Education	3
5100:220	Educational Psychology	3
5610:225	Introduction to Exceptionalities	3
5500:230	Educational Technology	3
5300:100	Orientation: AYA/P-12/Multi-Age	0

Phase Two: Learning about Teaching

5500:360	Educational Planning	3
5100:300	Educational Equity	3

Phase Three: Learning to Apply the Principles of Teaching

5500:370	Educational Implementation	3
5300:420	Inst. Techniques: Science (spring only)	3
5300:421	Field Exp: Inst. Techniques: Science	2
5300:325	Content Reading in Sec. Schools	3
5500:475	Instructional Technology Applications	3

Phase Four: Learning to Teach

5300:495	Student Teaching <sup>1</sup>	8
5300:496	Student Teaching Colloquium	1

**Content Requirements for Physics Licensure Students – 55 hrs.**

### Science Core

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	Physical Geology	4
3370:102	Historical Geology	4
3650:130	Descriptive Astronomy	4
3650:291	Elem. Class. Physics I	4
3650:292	Elem. Class. Physics II	4

### Physics

3650:301	Modern Physics	3
3650:322	Intermediate Lab I	3
3650:323	Intermediate Lab II	3
3650:133	Music, Sound & Physics [OR 3650:137 (4) Light]	4

### Mathematics

3450:221	Analytic Geometry/Calculus I (pre-req 3450:149 or eligibility for calculus)	4
3470:260	Basic Statistics	3

**138 credits required for graduation.**

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<sup>1</sup>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. To qualify for student teaching, students must have a 2.50 GPA overall, 2.5 in education classes, and 2.5 in the student's major, and in methods courses, core courses and in their teaching field(s). Satisfactory completion of a minimum of 100 hours of field and clinical experience is also required before student teaching.

### **Secondary Science Contact:**

Dr. Nidaa Makki  
Assistant Professor  
Zook 107  
(330) 972-6955  
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Applications for graduation are due as follows:

September 15 for May graduation  
February 15 for August graduation  
May 15 for December graduation



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

## Admission to Professional Education Programs

**All students are expected to complete an application for admission. Applications are available in the Pre-Admission Advising Office, Zook Hall 207.**

**General Education Requirements:** To be admitted to the College of Education, all students must be able to meet the following criteria: A student must have completed at least 30 semester hours of coursework. This coursework must include three semester hours in each of the required courses in mathematics; natural science; social science; public/oral communication; four (4) semester hours in English composition; and one (1) semester in physical education. Evidence of competency in mathematics as evidenced by the Praxis I Pre-Professional Skills Test (PPST), or computerized version (CBT), scoring at least 172 in mathematics. (Student with a 22 Composite ACT score or a 1050 Composite SAT score is exempt from this admission requirement. A student who obtains a "B" or better in a minimum of 3 credits of mathematics that meets the University's General Education mathematics requirement is also exempt from this admission requirement.) Evidence of competency in reading comprehension and writing as evidenced by the Praxis I Pre-Professional Skills Test (PPST), or computerized version (CBT), scoring at least 173 in reading comprehension and at least 172 in writing. (Student with a 22 Composite ACT score or a 1050 Composite SAT score is exempt from this admission requirement. A student who obtains a "B" or better in a course that meets the University's General Education English Composition I requirement is also exempt from this admission requirement.) **For additional admission requirements, see The University of Akron Undergraduate Bulletin.**

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

**Background Check:** A criminal background check is required for admission. Additional information is available in the teacher education application.

**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.