

DMAC - Secondary Education: Physics 6-12/ Physics

Students transferring in with 24 or more hours before taking classes at WSU may follow either WSU or KBOR. All other students must follow WSU General Education Policy. Hours taken from WSU while in high school do not apply to this policy.

General Education	Requirement	Course Taken	Hrs	Grade
Foundation Courses (12 hours) <i>Foundation Courses must be met within the first 48 hours of college credit.</i>	___ WSU & KBOR - Eng 101		3	
	___ WSU & KBOR - Eng 102		3	
	___ WSU & KBOR - Comm 111		3	
	___ WSU & KBOR - Math 111		3	
Fine Arts Introduction (3 hours)	Areas of Discipline: Art History, Dance, Music Comp, and Theatre			
	___ WSU Fine Arts- A1 (or) ___ KBOR Fine Arts/Humanities		3	
Humanities Introduction (6 hours) WSU policy: Introductory courses must be from 2 different disciplines. KBOR policy: (see below)	Areas of Discipline: Communications (Non Foundation), Literature, History, Linguistics, Modern & Classical Languages, Philosophy, Religion, Women's Studies.			
	___ WSU Humanities – A2 (or) ___ KBOR Fine Arts/Humanities		3	
	___ WSU Humanities – A2 (or) ___ KBOR Fine Arts/Humanities		3	
Social & Behavioral Sciences Introduction (6 hours) WSU policy: Introductory courses must be from 2 different disciplines. KBOR policy: (see below)	Areas of Discipline: Anthropology, Criminal Justice, Economics, Geography, Minority Studies, Political Science or Sociology			
	___ WSU & KBOR Psy 111 – B2		3	
	___ WSU Social & Behavioral Sciences – B2 (or) ___ KBOR Social & Behavioral Science		3	
Natural Sciences & Mathematics Introduction (6 hours) WSU policy: Introductory courses must be from 2 different disciplines. KBOR policy: (see below)	Areas of Discipline: Biology, Chemistry, Geology, Math and Physics			
	___ WSU & KBOR Natural Science Chem 211		5	
	___ WSU & KBOR Stats 370 – C2		3	
WSU Policy: Three courses required: one must be a further study, one must be an issues and perspective, third course can be either. If a student takes two FS and one I&P, the two FS courses must be distributed over two divisions; if a student takes one FS and two I&P, the two I&P courses must be in at least two subject areas.	___ WSU Further Studies – B4 Eng 315 or Ling 315 (A4) Or Anth 352 (B4)		3	
	___ WSU Issues /Perspectives C6 Geol 300		3	
	___ WSU Further Studies – C4 – Chem 212		3	
KBOR Policy: 12 hours Foundation; 12 hours Fine Arts/Humanities in 3 disciplines; 12 hours Social & Behavioral Science in 3 disciplines; 9 hours Natural Science/Mathematics in 2 disciplines with Natural Science lab.	___ KBOR – Fine Arts/Humanities - Eng 315 or Ling 315 (Anth 352 instead of 315 may be taken to fulfill a Social & Behavioral Science instead).		3	
	___ KBOR - Social & Behavioral Science		3	
	___ KBOR - Social & Behavioral Science		3	
	___ KBOR – Natural Science - Geol 300		3	

Attention: Take Math 123, Biol 210, Chem 211 and Chem 212 as soon as possible for prerequisites in major courses

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General Requirements for Bachelors: 194 minimum hours For Bachelors with DMAC; overall GPA 2.5; major content GPA 2.5.

REQUIREMENTS FOR A MAJOR			
	PHYS 213 or 313	General College Physics I or Physics for Scientist	(4-5)
	PHYS 214 or 314	General College Physics II or Physics for Scientist II	(4-5)
	PHYS 195	Introduction To Modern Astronomy	(3)
	PHYS 502	Science Investigations: Physics	(5)
CHOOSE ONE	PHYS 501	Special Studies in Physics for Educators	(3)
	PHYS 551	Topics In Modern Physics (Prerequisite Calculus III)	
	MATH 123	College Trigonometry	(3)
	MATH 242	Calculus I	(5)
	CHEM 211	General Chemistry I (2.0 or better)	(5) Gen. Ed
	CHEM212	General Chemistry II (2.0 or better)	(5) Gen. Ed
	BIOL 210	General Biology I (also meets gen ed requirement)	(4)
	GEOL 300	Energy, Resources & Environment (also meets gen. ed. requirement)	(3) Gen. Ed.
		Total Hours for the Major	46 hours
Additional Courses for DMAC: Consult with Advisor			
	Phys 315	University Physics lab I	(1)
	Phys 316	University Physics lab II	(1)
	Phys 516, 517 or 616	Advanced Lab, Electronics Lab, or Computational Physics Lab	(2)
	Phys 621	Analytical Mechanics	(3)
	Phys 631	Electricity and Magnetism	(3)
	Phys 641	Thermophysics	(3)
	Phys 651	Quantum Mechanics I	(3)
	Physics elective	Consult with Advisor	(6)
	Chemistry	Consult with Advisor	(5)
	Math 242	Calculus I	(5)
	Math 243	Calculus II	(5)
	Math 344	Calculus III	(3)
	Math 555	Differential Equations	(3)
	Math 545 547 or 757	Integration Techniques & Application Advanced Calculus I Partial Differential Equations for Engineers	(3)

CI 270	Introduction to the Education Profession (Must have a B- or better)	(3)
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Teacher Education

Middle & Secondary majors need a B- or better in all courses below.

Core I - (Fall only)			Core III - (Fall only)		
CESP334	Introduction to Diversity: Human Growth & Development	(2)	CI 413S	Teaching Internship I: Secondary Level Sciences	(2)
CI 320	Introduction to Diversity: Exceptionalities	(2)	CI 417	Instructional Strategies, Assessment and Management (ISAM) Literacy Strategies in the Content Areas	(2)
CI 321	Introduction to Diversity: Cultural Issues	(2)	CI 435S	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary Sciences Methods II	(3)
CI 325	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary General Methods	(1)	CI 505	Science, Technology and Society	(1)
CI 315	Core I Practicum	(1)	CI 780S	Technology in the Classroom: Science	(2)
Core II - (Spring only)			Core IV - (Spring only)		
CESP433	Learning, Assessment and Evaluation Theory: Evidence-Based Instruction <i>If preferred, this class can be taken with Core III.</i>	(3)	CI 436S	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary Sciences Methods III	(2)
CI 425S	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary Sciences Methods I	(2)	CI 471S	Teaching Internship II: Secondary Level Sciences (15 weeks)	(10)
CI 426S	Core II Practicum –Sciences	(1)	Licensure Exams PLT Praxis II Sciences Content Test		
CI 427	Philosophy, History & Ethics of Education	(3)			

OFFICIAL PROGRAM TRANSITION POINT REQUIREMENTS:

- Admission into Teacher Education - Completed application packet
- Admission to Teacher Internship: a) Satisfactory accomplishment of content-area, standard-driven assessments, b) "B-" or better in all Professional Teacher Education courses. d) 2.5 GPA (overall, WSU and content) and e) completed Teacher Intern Application.
- Exit from Teacher Internship: a) "B-" or better in all professional courses, b) 2.5 GPA (overall and WSU), c) Successful completion of all degree requirements, d) Final University Supervisor Evaluation Form.
- Degree Completion: a) 2.5 GPA (overall and WSU), and b) Meets all degree requirements
- Licensure Recommendation – a) Passes common assessments, b) Passing score on Kansas Performance Teaching Portfolio, c) PLT passed, d) Praxis II content test(s) passed, and e) Licensure application

CANDIDATES COMPLETING THIS PROGRAM ARE ELIGIBLE TO BE CERTIFIED TO TEACH PHYSICS AND GENERAL SCIENCE—GRADES 6-12.

Notice of Nondiscrimination

- Wichita State University does not discriminate in its employment practices, educational programs or activities on the basis of age, color, disability, gender, gender expression, gender identity, genetic information, marital status, national origin, political affiliation, pregnancy, race, religion, sex, sexual orientation, or status as a veteran. Retaliation against an individual filing or cooperating in a complaint process is also prohibited. Sexual misconduct, relationship violence and stalking are forms of sex discrimination and are prohibited under Title IX of the Education Amendments Act of 1972. Complaints or concerns related to alleged discrimination may be directed to the Director of Equal Opportunity or the Title IX Coordinator, Wichita State University, 1845 Fairmount, Wichita KS 67260-0138; telephone (316) 978-3187.