

## Double Major (DMAC) - Secondary Education: Physics 6-12/ Physics

**Option 1: WSU General Education Policy**

General Education <i>(Of the 36 hours required below, 9 hours must be 300 level or above)</i>	Requirement	Course Taken	Hrs	Grade
<b>Foundation Courses (12 hours)</b> Foundation Courses must be met within the first 48 hours of college credit.	ENGL 101		3	
	ENGL 102		3	
	COMM 111		3	
	MATH 111		3	
<b>Fine Arts (3)</b>				
	Areas of Discipline: ARTH, ARTS, DANC, FA, MUSC, THEA			
	FINE ARTS			
<b>Humanities (3)</b>				
	Areas of Discipline: COMM, ENGL, FREN, GERM, HIST, LATN, LING, PHIL, REL, RUSS, WOMS			
	ENGL 315		3	
<b>Social &amp; Behavioral Sciences (3)</b>				
	Areas of Discipline: AGE, ANTH, ARTS 211, 312, 322, 324 CESP 334, CJ, COMM 130, ECON, ENTR 310 and 440, ETHS, GEOG, HP, IB, ID, POLS, PSY, SCWK, SOC			
	PSY 111		3	
<b>Natural Sciences &amp; Mathematics (3)</b>				
	Areas of Discipline: ANTH 101, ANTH 356, BIOL, CHEM, CS, GEOL, HP, HS, MATH, PC, PHYS, STAT			
	CHEM 211		5	
<b>Additional (12 hours) from at least two divisions</b>				
*FIRST YEAR SEMINAR: Required beginning Fall 2021 for SR incoming freshman.	CHEM 212 1 <sup>ST</sup> DIVISION*		5	
	CESP 334: 2 <sup>ND</sup> DIVISION		3	
	STAT 370		3	
	BIOL 210		4	

**Option 2: KBOR General Education Policy (for transfer students only):**

12 hours Foundation (SEE ABOVE)

12 hours Fine Arts/Humanities in 3 disciplines \_\_\_\_\_

12 hours Social & Behavioral Sciences in 3 disciplines \_\_\_\_\_

9 hours Natural Science/Mathematics in 2 disciplines (one Nat'l Science w/ lab) \_\_\_\_\_

**Option 3: AMENDED General Education Policy: (w/ AA or AS from KS Community Colleges):**

6 hours of 300 level or above taken at WSU. \_\_\_\_\_

Attention: Take Math 123, Biol 210, Chem 211 and Chem 212 as soon as possible.

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**General Requirements for Bachelors:** 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)
	PHYS 551	Topics In Modern Physics (Prerequisite Calculus III)	(3)
	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	44 hours
Additional Courses for DMAC: Consult with Advisor			
Choose two	Phys 516 , 517, 616	Advanced Lab, Electronics Lab, or Computational Physics Lab	(2) + (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)
	Math 243	Calculus II	(5)
	Math 555	Differential Equations	(3)
	Math elective	Consult with your advisor (500 level or above)	(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)		
CI 320	Introduction to Diversity: Exceptionalities	(2)	CI 413S	Teaching Internship I: Secondary Level Sciences	(2)
CI 321	Introduction to Diversity: Cultural Issues	(2)	CI 417	Instructional Strategies, Assessment and Management (ISAM) Literacy Strategies in the Content Areas	(2)
CI 325	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary General Methods	(1)	CI 435S	Instructional Strategies, Assessment and Management (ISAM): Middle/Secondary Sciences Methods II	(3)
CI 315	Core I Practicum	(1)	CI 505	Science, Technology and Society	(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)	CAS 501	Teacher Licensure Capstone - licensure requirement only - \$100 fee added to student account.	(0)
CI 427	Philosophy, History & Ethics of Education	(3)	Licensure Exams PLT Praxis II Sciences Content Test		

### OFFICIAL PROGRAM TRANSITION POINTS 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, with the exception of a 2.0 grade requirement in CI 519, c) 2.5 GPA (overall, WSU and content) and d) 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) Completion of Teacher Education Program, b) Teacher Work Sample/TLC passed, c) PLT passed, d) Praxis II content test(s) passed, and e) Licensure application submitted

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

### Notice of Nondiscrimination

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