

NKU

SECONDARY EDUCATION

PHYSICS (8-12)

Name _____

Email _____

SPECIAL CONTENT AREA REQUIREMENTS:

- Minimum Content Area GPA: 2.75
- Minimum grade of C- in PHY 220, 222, 224, & 361

YOU NEED TO KNOW

- As a Secondary/P-12 Education major you have two advisors. Your main advisor is in the College of Arts & Sciences - they guide you in planning your content courses and clear your advising hold if you have one. Your second advisor is in the COE Advising Center and guides you in planning for education requirements.
- Some courses in this major may also be used toward Foundation of Knowledge (general education) requirements.
- The Admission Semester, Professional Semester I, and Professional Semester II are "blocks." The classes in these groups must be taken together in the same semester. You may take other classes with these blocks if appropriate.
- Elective credit hours be necessary in order to earn the minimum of 120 credit hours required for graduation.
- Details on this checklist are subject to change including course rotation and availability, pre-requisites, and/or course credit hours. Maintain contact with your assigned advisor to make sure you remain informed of any such changes.

PHYSICS CONTENT COURSES

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Science, Engineering and Design	F		PHY 100	_____		_____
University Physics with Laboratory I	F Sp	Pre-req/co-req: MAT 129 or MAT 227 or placement	PHY 220	_____		_____
University Physics with Laboratory II	F	PHY 220 (min. grade C-); pre-req/co-req: MAT 228/229	PHY 222	_____		_____
University Physics with Laboratory III	Sp	PHY 220 (min. grade C-) & MAT 129	PHY 224	_____		_____
Intermediate Physics Laboratory	F	Co-req: PHY 361	PHY 300	_____		_____
Dynamics	Sp	PHY 220 (min. grade C-); pre-req/co-req: MAT 325	PHY 310	_____		_____
Thermodynamics	Sp	PHY 224 (min. grade C-); pre-req/co-req: MAT 329	PHY 360	_____		_____
Modern Physics	F	PHY 224 (min. grade C- & MAT 129/227); co-req: PHY 300	PHY 361	_____		_____
Physics Seminar	Sp	20 semester hours of Physics courses	PHY 393	_____		_____
Upper Division PHY/AST Elective	varies	varies	_____	_____		_____
Upper Division PHY/AST Elective	varies	varies	_____	_____		_____
Upper Division PHY/AST Elective	varies	varies	_____	_____		_____

OTHER CONTENT COURSES

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
General Chemistry I	F Sp	HS chemistry & ACT Math 22 or CHE 102 (min. grade B-) Co-req: CHE 120L	CHE 120	_____		_____
General Chemistry I Laboratory	F Sp	Co-req: CHE 120	CHE 120L	_____		_____
General Chemistry II	Sp Su	CHE 120 (min. grade C-)	CHE 121	_____		_____
General Chemistry II Laboratory	Sp Su	CHE 120L (min. grade C-); pre-req/co-req: CHE 121	CHE 121L	_____		_____
Calculus Sequence MAT 129 & 229 or MAT 128, 227, & 228	F Sp	ACT Math 27 or MAT 119 (min. grade B-) or placement	_____	_____		_____
Calculus III	F Sp	MAT 228 or MAT 229 (min. grade C-)	MAT 329	_____		_____
Differential Equations	Sp	MAT 228 or MAT 229 (min. grade C-)	MAT 325	_____		_____

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- The Teacher Education Program has special admission requirements. Everybody starts as a pre-major, and certain requirements must be met in order to be admitted. Consult the undergraduate catalog for more details.
- 'C' is the minimum acceptable grade for all courses in the Teacher Education Program except CMST 101 and ENG 102 or their equivalents, which have a minimum acceptable grade of 'B', and PSY 100, which has no minimum passing grade.
- The Admission Semester, Professional Semester I, and Professional Semester II are "blocks." The classes in these groups must be taken together in the same semester. You may take other classes with these blocks if appropriate.
- Teaching Methods courses must be taken with either Professional Semester
- All required courses must be completed with minimum grades and GPAs met before entering the Clinical Experience, and no other classes may be taken with it.
- Details on this checklist are subject to change including course rotation and availability, pre-requisites, and/or course credit hours. Maintain contact with your assigned advisor to make sure you remain informed of any such changes.

PRE-ADMISSION COURSES

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Orientation to the Education Profession	F Sp		EDU 104	_____		_____
Public Speaking	F Sp Su		CMST 101	_____		_____
Writing and Research	F Sp Su	ENG 101 or equivalent	ENG 102	_____		_____
Introduction to Psychology	F Sp Su		PSY 100	_____		_____
Human Growth & Development	F Sp Su	PSY 100	EDU 300	_____		_____
Introduction to Education	F Sp Su	EDU 104	EDU 305	_____		_____
Education in a Multicultural Society	F Sp Su	Sophomore standing	EDU 316	_____		_____

ADMISSION SEMESTER

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Admission Field Experience Secondary		EDU 104 and PSY 100 ≥ 45 earned credit hours	EDU 311	_____		_____
Instructional Technology	F Sp	≥ 2.75 overall GPA or ≥ 3.00 GPA in last 30 credit hours Pass criminal background check	EDU 313	_____		_____
Children w/ Exceptionalities in the Schools		Acceptable scores from ACT and/or Praxis I Core Academic Skills for Educators exams (check w/ COE advisor)	EDS 360	_____		_____

TEACHING METHODS & READING

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Reading Course EDU 304 or EDU 354	F Sp	Admission to Teacher Education Program	_____	_____		_____
Teaching Science in Secondary Schools	F	24 earned hours in content classes (min. grade C)	EDU 330	_____		_____

PROFESSIONAL SEMESTER I

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Inst. Plan. for Inclusive Sec. Classrooms		Admission Semester w/ min. grades met All pre-admission EDU & EDS courses (min. grade: C) ≥ 60 earned credit hours	EDS 324	_____		_____
Fundamentals of Secondary Education	F Sp	≥ 2.75 overall GPA or ≥ 3.00 GPA in last 30 credit hours ENG 102 and CMST 101 or equivalent (min. grade: B) Any Culture & Creativity gen ed course (min. grade: C)	EDU 324	_____		_____
Secondary Field Experience I		Any Science, Math or Ind. & Society course (min. grade: C) Approval of Teacher Education Committee	EDU 393	_____		_____

PROFESSIONAL SEMESTER II

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Classroom Climate Mgmt.: Secondary			EDU 319	_____		_____
Educational Assessment: Secondary Schools	F Sp	Professional Semester I w/ min. grades met	EDU 325	_____		_____
Secondary Field Experience II			EDU 396	_____		_____

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CLINICAL EXPERIENCE ELIGIBILITY CHECK

Complete all Foundation of Knowledge requirements

Earn at least 120 credit hours

Earn at least 45 upper-division credit hours

Fulfill NKU's residency requirement

Meet all minimum acceptable grades for the major

Meet the minimum cumulative NKU GPA (2.75) _____

Meet the minimum combined NKU & transfer GPA (2.75) _____

Meet the minimum pedagogy GPA (2.75) _____

Meet the min. GPA for the content area (2.75) _____

NOTES

DEPARTMENT CHAIR / DESIGNEE SIGNATURE

CLINICAL EXPERIENCE

Course Title / Requirement Name	Rotation	Pre-Requisite(s)	Course Number	Semester	Credit	Grade
Clinical Experience: Secondary	F Sp	Department approval; consult advisor	EDU 496	_____	_____	_____

COURSE SUBSTITUTIONS

Content Area Courses					Pedagogy Courses				
Required Course	Substitute Course	Semester	Credit	Grade	Required Course	Substitute Course	Semester	Credit	Grade
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____