

NAME _____

DATE ENTERED _____

BA EARTH AND ENVIRONMENTAL SCIENCES EDUCATION: EARTH SCIENCES/CHEMISTRY**GENERAL EDUCATION REQUIREMENTS 40 credit hours**

Course	Qtr/Yr	Grade	Cr Hrs	Remarks
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Area I Communication and Mathematical Skills 8 credit hours

ENG 101

4

ENG 102

4

MTH 229, 230 are required substitutions for MTH 145 and is listed with *Additional Requirements***Area II Cultural-Social Foundations 8 credit hours**

choose one course from each category (circle choice)

History

CLS 150, HST 101, HST 102, HST 103

4

Non-Western World

CST, RST, CSE 250, HLT-202, RSE 260, URS 200

4

Non-Western WorldCST, RST, CSE 250, HLT-202,
RSE 260, SW 272, URS 200

4

Area III Human Behavior 8 credit hours

choose two courses from different categories (circle choice)

EC 200 or EC 290

PLS 200

PSY 105

SOC 200

WMS 200 or UH 202

Area IV Human Expression 4 credit hours

choose one from either category (circle choice)

Great Books

CLS 204, ENG 204, PHL 204, REL 204

Fine and Performing Arts

ART 214, MUS 214, MUS 290, TH 214

Additional Courses from Areas II, III, and IV 8 credit hours

choose two courses from different Areas; for Areas III and IV choose from the categories not chosen above

4

4

Area V Natural SciencesEES 251-256 are required substitutions; these are included with *Departmental Requirements***Area VI College Component 4 credit hours**

choose one (circle choice)

EH 205, SM 205

4

Writing Intensive Credits

WI credit from three courses listed on this page, excluding EES 251-256 (write in course and quarter/year)

1)

2)

3)

Residence Regulations

A minimum of 45 credit hours must be earned at Wright State University. At least 15 of the last 45 credit hours must be earned at Wright State. A minimum of 30 hours numbered 300 or above must be earned at Wright State.

BA EARTH AND ENVIRONMENTAL SCIENCES EDUCATION: *EARTH SCIENCES/CHEMISTRY*

DEPARTMENTAL REQUIREMENTS 60 credit hours

Objectives of the Program

Graduates will obtain positions as practicing Earth Science educators and will bring both content and process of Earth Science to all students.

Learning Outcomes of the Program

Students will acquire the Earth Science content knowledge needed to teach students in K-12 settings. Students will increase their ability to use critical thinking and use that ability to develop inquiry-based classroom activities to engage their students in the process of science.

Course	Qtr/Yr	Grade	Cr Hrs	Remarks
Earth and Environmental Sciences Requirements			54 credit hours	
EES 251	Physical Geology & Geomorphology I		3	
EES 252	Phys. Geology & Geomorph. Lab I		1.5	
EES 253	Physical Geology & Geomorphology II		3	
EES 254	Phys. Geology & Geomorph. Lab II		1.5	
EES 255	Historical Geology		3	
EES 256	Historical Geology Lab		1.5	
EES 201	Hydrology and Water Resources		4	
EES 309	Geologic Hazards and Env. Quality		4	
EES 312	Earth Materials I: Minerals and Rocks		4.5	
EES 417	Stratigraphy (WI)		4.5	
EES 419	Invertebrate Paleontology (WI)		4.5	
EES 421	Structural Geology		4.5	
EES 324	Oceanography		4	
EES 428	EES Colloquium	1) 2) 3)	1.5	3 x 0.5 credits
EES 499	Field Experience Modules		9	

Earth and Environmental Sciences Electives 6 credit hours

Writing Intensive Credits

WI credit from three courses listed on this page; one and only one must be from EES 251, 253, or 255; other courses that are normally offered for WI credit are indicated; write in course and quarter/year

1)	2)	3)
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BA EARTH AND ENVIRONMENTAL SCIENCES EDUCATION: EARTH SCIENCES/CHEMISTRY

ADDITIONAL REQUIREMENTS		109.5 credit hours			
Course		Qtr/Yr	Grade	Cr Hrs	Remarks
Related Course Requirements		86.5 credit hours			
BIO 112	Principles of Biology: Cell Bio/Genetics			4	
CHM 121	Submicroscopic Chemistry			5	
CHM 122	Macroscopic Chemistry			5	
CHM 123	Reaction Dynamics			5	
CHM 211	Organic Chemistry			4	
CHM 215	Organic Chemistry Lab I			2	
CHM 212	Organic Chemistry			4	
CHM 216	Organic Chemistry Lab II			2	
CHM 213	Organic Chemistry			4	
CHM 217	Organic Chemistry Lab III			2	
CHM 312	Quantitative Analysis			3	
CHM 314	Quantitative Analysis Lab			4.5	
CHM 451	Physical Chemistry			3	
MTH 229	Calculus I			5	
MTH 230	Calculus II			5	
MTH 231	Calculus III			5	
PHY 240	General Physics I			4	
PHY 200	General Physics Lab I			1	
PHY 242	General Physics II			4	
PHY 202	General Physics Lab II			1	
PHY 244	General Physics III			5	
PHY 204	General Physics Lab III			1	
PHY 106	Planetary Astronomy			3	
PHY 116	Planetary Astronomy Laboratory			1	
GEO 331 OR GEO 430 (circle choice)				4	
College Requirement - Electives		8 credit hours			
These must be from outside the colleges of <i>Engineering & Computer Science</i> and <i>Science & Mathematics</i>					
Phase One Professional Education Courses		15 credit hours			
ED 221	Practicum Experience I			1	
ED 223	Practicum Experience II			1	
ED 301	Schooling in a Pluralistic Society			5	
ED 303	Intro to Educational Psychology			5	
EDS 333	Learning Differences: Introduction			3	
TOTAL		209.5 credit hours			