

PROGRAM CODE UCOE ELUMC	COLLEGE OF EDUCATION
EFFECTIVE DATE FALL 2023	ELEMENTARY EDUCATION
VERSION NUMBER 2238	BACHELOR OF SCIENCE IN EDUCATION
4-8 MATHEMATICS AND SCIENCE	
STUDENT:	STUDENT ID NUMBER:

CERTIFICATION COURSES

**Professional Courses – Pre-Candidacy**

COURSE	CR	GRADE
ELU 212 TEACHING DIVERSE LEARNERS MID LEVEL ♣	3	
ELU 312 CULTURALLY RESPONSIVE TEACH IN ELL ♣ ♦	3	
ELU 226 TEACH MID LEVEL <b>OR</b> EDU 326 (pre-req for Prosem) ♣	3	
SPU 201 COGNITIVE DEVEL. OF DIVERSE LEARNERS ♣ ♦	3	
SPU 314 EFFECTIVE INSTRUCTIONAL STRATEGIES ♣	3	
SPU 316 LITERACY DEV. CORE & INTERVENTION ♣ ♦	3	
LLT 321 TECHNOLOGY IN EDUCATION INSTRUCTION ♣ ♦	3	
<b>TOTAL CREDITS</b>	<b>21</b>	

**English/Language Arts & Reading**

COURSE	CR	GRADE
CMP 100 LEVEL COURSE ♣ ♦	3	
CMP 200 RESEARCH AND COMPOSITION ♦	3	
ENG LITERATURE COURSE ♣	3	
COM 010 FUNDAMENTALS OF ORAL COMMUNICATION ♣ ♦	3	
ELU 221 LIT FOR UPPER ELEM & MIDDLE LEVEL LEARNERS ♣ (pre-requisite for ELU 331)	3	
ELU 331 TEACH & ASSESS LITERACY FOR MID. LVL LEARNERS ♣	3	

**Natural Sciences**

COURSE	CR	GRADE
CHM 020 INTRODUCTION TO CHEMISTRY (LAB)	3	
BIO 010 (LAB) ♦	3	
PHY 020 INTRODUCTION TO PHYSICS (LAB)	3	
BIO 130 ENVIRONMENTAL ISS. GLOBAL PERSPECTIVE	3	
AST 020 INTRODUCTORY ASTRONOMY (LAB)	3	
GEL 020 INTRODUCTION TO GEOLOGY (LAB)	3	
GEG 204 METEOROLGY	3	
<b>TOTAL CREDITS</b>	<b>21</b>	

**Non-Directed General Education Courses**

COURSE	CR	GRADE
FYS 100 OR TRANSFER: Any approved Gen Ed Course	3	
<b>TOTAL CREDITS</b>	<b>3</b>	

- ♦ THESE COURSES ARE ALSO DIRECTED GENERAL EDUCATION COURSES
- ♣ THESE COURSES REQUIRE A GRADE OF C OR BETTER

**Mathematics**

COURSE	CR	GRADE
MAT 103 FUNDAMENTALS OF MATH I ♣ ♦	3	
MAT 104 FUNDAMENTALS OF MATH II ♣ ♦	3	
MAT 040 GEOMETRY	3	
MAT 105 COLLEGE ALGEBRA	3	
MAT 122 APPLIED CALCULUS	3	
MAT 140 APPLIED STAT METHODS	3	
SELECT ONLY ONE FROM THE CHOICES BELOW: MAT 106 TRIGONOMETRY MAT 115 PRE-CALCULUS MAT 123 DISCRETE MATH	3	
<b>TOTAL CREDITS</b>	<b>21</b>	

**Social Sciences**

COURSE	CR	GRADE
AMERICAN HISTORY: HIS 025 <b>OR</b> HIS 026 ♦	3	
WORLD HISTORY: HIS 014 <b>OR</b> HIS 015 ♦	3	
ECONOMICS: ECO 100 ♦	3	
GEOGRAPHY: GEG 010 <b>OR</b> GEG 101	3	


**Professional Semester – Teacher Candidacy Required**  
Courses Scheduled in a block **FALL SEMESTERS** only (pre-req. to Clinical Experience)

COURSE	CR	GRADE
ELU 342 TEACHING WRITING AT THE MID LEVEL ♣	3	
ELU 344 TEACHNG & ASSESS. SOCIAL STUDIES FOR MIDDLE LEVEL LEARNERS ♣	3	
ELU 346 MID LEVEL COGNITIVE DEVELOPMENT ♣	3	
ELU 347 TEACHING & ASSESS. MATH FOR MIDDLE LEVEL LEARNERS ♣	3	
ELU 349 TEACHING & ASSESS. SCIENCE FOR MIDDLE LEVEL LEARNERS ♣	3	
<b>TOTAL CREDITS</b>	<b>15</b>	

**Clinical Experience - FALL OR SPRING**

COURSE	CR	GRADE
ELU 392 CLINICAL EXPERIENCE I WITH MID LEVEL LEARNERS ♣	6	
ELU 393 CLINICAL EXPERIENCE II WITH MID LEVEL LEARNERS ♣	6	
<b>TOTAL CREDITS</b>	<b>12</b>	

GRADUATION REQUIREMENTS CANDIDACY REQUIREMENTS

	GENERAL EDUCATION CREDITS	REQUIRED	✓	REQUIRED BASIC SKILLS ASSESSMENTS	REQUIRED	✓
	PROGRAM CREDITS	42-45		REQUIRED GPA	3.0	
	TOTAL CREDITS	81		C OR BETTER IN REQUIRED COURSES ♣ (CMP, ENG LIT, & 2 MAT)	C	
		123		PROGRAM SPECIFIC OBSERVATION HRS		

NAME	EFFECTIVE DATE AUGUST 27, 2018
ID NUMBER	VERSION 2188

# KUTZTOWN

## UNIVERSITY

### DEGREE REQUIREMENTS

## GENERAL EDUCATION

### Student Learning Outcomes (SLO)

Upon completion of the requirements for the General Education Program, students will be able to:

- 1 communicate clearly and effectively orally and in writing.
- 2 apply scientific and quantitative reasoning to solve problems and increase knowledge.
- 3 apply skills in critical analysis and reasoning for the interpretation of data.
- 4 engage critically with creative or artistic works.
- 5 demonstrate the ability to retrieve, interpret, evaluate, and use information.
- 6 analyze the role of values, ethics, diversity, and multiple perspectives in local and global society.
- 7 demonstrate an understanding of various models for the development of the whole person.

Completion of the KU General Education program will give students opportunities to:

- 8 explore concepts, ideas, and methods from a variety of disciplines.

Use this checksheet to plan your degree program. Meet every semester with your academic advisor to be sure that you are taking courses that are required to obtain the degree you are seeking. Discuss your goals and choose courses that will help you to attain them. Get the most out of your education by taking advantage of everything that Kutztown University has to offer.

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**TOTAL GENERAL EDUCATION CREDITS 42-45**

FIND A FULL EXPLANATION OF THE GENERAL EDUCATION PROGRAM AT [WWW.KUTZTOWN.EDU](http://WWW.KUTZTOWN.EDU)

<b>First Year Seminar: Discovering College</b>	<b>CREDITS REQUIRED</b>	<b>3</b>
THIS COURSE MEETS SLO <b>5</b> & <b>7</b>		<b>CREDITS EARNED:</b>

COURSE NUMBER	COURSE NAME	CR	GR
FYS 100	First Year Seminar		

TRANSFER STUDENTS TRANSFERRING 15 CREDITS OR MORE AND NOT TRANSFERRING AN FYS OR FYE COURSE MAY SELECT ANY ADDITIONAL COURSE FROM SECTIONS A, B, C, OR D TO MEET THEIR FYS REQUIREMENT

TRANSFER ELECTIVE:

<b>A</b>	<b>Communicating With And About the World</b>	<b>CREDITS REQUIRED</b>	<b>12</b>
THESE COURSES MEET SLO <b>1</b> & <b>5</b>		<b>CREDITS EARNED:</b>	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>	COMPOSITION 100 LEVEL CMP 1__		
<b>2</b>	COMPOSITION 200 LEVEL CMP 2__		
<b>3</b>	SPEAKING		
<b>4</b>	ANY WRITING (A2) OR SPEAKING COURSE (A3) OR FROM THE APPROVED LIST		

COURSES IN CATEGORIES B, C & D MUST BE TAKEN OUTSIDE THE STUDENT'S MAJOR. THE MAJOR IS DEFINED AS THE PREFIX THAT IDENTIFIES THE MAJOR. CONCOMITANT REQUIREMENTS MAY BE TAKEN TO MEET GENERAL EDUCATION REQUIREMENTS.

<b>B</b>	<b>Understanding Self &amp; Others</b>	<b>CREDITS REQUIRED</b>	<b>9</b>
THESE COURSES MEET SLO <b>3</b> & <b>6</b>		<b>CREDITS EARNED:</b>	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>			
<b>2</b>			
<b>3</b>			

<b>C</b>	<b>Understanding Science &amp; Technology</b>	<b>CREDITS REQUIRED</b>	<b>9-12</b>
THESE COURSES MEET SLO <b>2</b> & <b>3</b>		<b>CREDITS EARNED:</b>	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>	SCIENTIFIC INQUIRY		
<b>2</b>	QUANTITATIVE REASONING		
<b>3</b>	ANY COURSE APPROVED FOR C1 OR C2		

<b>D</b>	<b>Understanding &amp; Creating Ideas</b>	<b>CREDITS REQUIRED</b>	<b>9</b>
THESE COURSES MEET SLO <b>4</b> & <b>6</b>		<b>CREDITS EARNED:</b>	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>			
<b>2</b>			
<b>3</b>			

