

CLARION UNIVERSITY OF PENNSYLVANIA
College of Education, Health & Human Services

MIDDLE LEVEL EDUCATION
Science Concentration

Name _____
 ID# _____
 CUP Entrance Date _____
 Program Entry Date _____
 Advisor _____

Transfer * _____
 ** _____
 Date Cr Cr Date Cr Cr Date Cr Cr

GENERAL EDUCATION REQUIREMENTS (48 Credits)

I. LIBERAL EDUCATION SKILLS – 12 CREDITS

A. English Composition (3-6 credits)
ENGL 111 _____ 3 _____

B. Mathematics Competency (3 credits)
MATH 111: Math Concepts in K – 8 _____ 3 _____

C. Credits to total 12 in Category I, selected from at least two of the following: Academic Support, Communication, Computer Information Science, Elementary Foreign Language, English Composition, INQ 100, Logic, and Speech Communication.
MATH 211: Fundamental Topics in K-8 _____ 3 _____
ECH 417: Tech for Early Childhood Educators _____ 3 _____

II. LIBERAL KNOWLEDGE – 27 CREDITS

A. Physical and Biological Sciences (9 credits) Selected from at least two of the following: Biology, Chemistry, Earth Science, Mathematics Physical Science and Physics.
MATH 212: Intuitive Geometry _____ 3 _____
MATH 216: Problem-Solving _____ 3 _____
BIOL 155: Principle of Biology I (Lecture) _____ 3 _____

B. Social and Behavioral Sciences (9 Credits) Selected from the following: Anthropology, Economics, Geog., History, Political Science, Psychology, Sociology, Social Work, and Women’s Studies.
HIST 111 OR HIST 112 OR HIST 113 _____ 3 _____
HIST 120 or HIST 121 _____ 3 _____
GEOG 100: World Geography _____ 3 _____

C. Arts and Humanities (9 Credits) Selected from the following: Art, English Language and Literature, Humanities, Intermediate Foreign Language and Cultures, INQ 100, Music, Philosophy, Speech and Theatre.
ED 350: Teaching English Language Learners _____ 3 _____
ENGL 283: English Grammar and Usage _____ 3 _____

III. HEALTH AND PERSONAL PERFORMANCE (3 Cr)

A. Health and Wellness (2 Credits)

 Personal Performance (1 course and 1 credit)

IV. General Education Electives (6 credits)
 Credits to total 48 from Gen. Ed. Up to 1 credit from III-B allowed.
ED 122: Educational Psychology _____ 3 _____

FLAGS - Record below

* _____ First Year Values (V)
 _____ Writing Intensive (W)
 _____ Quantitative Reasoning (Q)
 _____ Writing Intensive (W)

EDUCATION COMPETENCIES (21 Additional Credits)

Education:
 ED 110 Ed Foundations for Middle and Sr Hi _____ 3 _____
 ED 122 Educational Psychology _____ 3 (IV) _____
 ED 327 Instructional Strategies & Management _____ 3 _____
 ED 350 Teaching English Language Learners _____ 3 (IIC) _____

English:
 ENGL 111: College Writing II _____ 3 (IA) _____
 ENGL 283: English Grammar & English Usage _____ 3 (IIC) _____

Math:
 MATH 111: Math Concepts in K-8 _____ 3 (IB) _____
 MATH 211: Fundamental Topics in K-* _____ 3 (ID) _____
 MATH 212: Intuitive Geometry _____ 3 (IIA) _____
 MATH 216: Problem Solving _____ 3 (IIA) _____

Social Studies:
 GEOG 100: World Geography _____ 3 (IIB) _____
 HIST 111 or HIST 112 OR HIST 113 _____ 3 (IIB) _____
 HIST 120 or HIST 121 _____ 3 (IIB) _____
 PS 211: American Government _____ 3 _____

Special Education:
 SPED 111 or SPED 418 Except. In Reg. Classroom _____ 3 _____
 SPED 447: Teaching Students with Disabilities _____ 3 _____
 SPED 442: Differentiating Instruction _____ 3 _____

MIDDLE LEVEL SCIENCE SPECIALIZATION (27 Additional Credits)

BIOL 155: Principles of Biology I (Lecture) BIOL _____ 3 (IIA) _____
 165: Principles of Biology I (Lab) _____ 1 _____
 BIOL 156: Principles of Biology II (Lecture) BIOL _____ 3 _____
 166: Principles of Biology II (Lab) _____ 1 _____
 BIOL 202: Principles of Ecology _____ 3 _____
 CHEM 153: General Chemistry I (Lecture) CHEM _____ 3 _____
 163: General Chemistry I (Lab) _____ 1 _____
 ES 111: Earth Science _____ 3 _____
 ES 280: Meteorology _____ 3 _____
 PHSC 112: Basic Physical Science, Phys & Astr _____ 3 _____
 SCED 205: Lab Experiences in Science _____ 3 _____
 SCED 305: STEM in the Classroom _____ 3 _____

1 – 6 BLOCK (12 Additional Credits) Must be taken Concurrently

ECH 414: Teaching and Learning Language & Literacy _____ 2 _____
 ECH 415: Learning & Teaching Mathematics _____ 2 _____
 ECH 416: Learning & Teaching Social Studies _____ 2 _____
 ECH 417: Technology for Early Child Educators _____ 3 (ID) _____
 ECH 418: Learning & Teaching Science _____ 2 _____
 ECH 419: ECH 1 – 6 Practicum _____ 1 _____

MIDDLE LEVEL SECONDARY BLOCK (9 Credits)

ED 329: Educational Assessment ** _____ 3 _____
 ED 333: Teaching Secondary Content Reading _____ 3 _____
 ED 332: Methods of Teaching Secondary Science _____ 3 _____

STUDENT TEACHING (12 Credits)

EDML 424: Student Teaching _____ 6 _____
 EDML 425: Student Teaching _____ 6 _____

TOTAL CREDITS: 126