

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

SECONDARY EDUCATION
Earth Science

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

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

GENERAL EDUCATION REQUIREMENTS (48 Credits)

Please refer to the approved list of Gen Ed courses that appear on the back.

I. LIBERAL EDUCATION SKILLS – 12 CREDITS

A. English Composition (3-6 credits)
 ENGL 111: Writing II* _____ 3 _____

B. Mathematics Competency (3 credits)
 MATH 171 _____ 3 _____

C. Credits to total 12 in Category I, selected from at least two of the following: Computer Information Science, Elementary Foreign Language, English Composition, Logic, Mathematics, CSD 465, CMST 113, 213, 214, 251, HON 128, INQ 100, MMAJ 140, 340, AE 100, ED 417

MATH 221 _____ 3 _____
 ED 417* _____ 3 _____

(ED 417 taken concurrent with ED 329 & ED 332)

II. LIBERAL KNOWLEDGE – 27 CREDITS

A Physical and Biological Sciences (9 credits) Selected from at least two of the following: Biology, Chemistry, Earth Science, Mathematics¹, Physical Science and Physics.

BIOL 155* _____ 3 _____
 BIOL 165* _____ 1 _____
 MATH 171 _____ 1 _____
 PH 251* or PH 252* _____ 4 _____

B. Social and Behavioral Sciences (9 Credits) Selected from the following: Anthropology, Economics, Geog., History, Political Science, Psychology, Sociology, Social Work, Women's Studies, CSD 125, 257, GS 140, HON 240, NURS 320, ED 122

ED 122* _____ 3 _____
 _____ 3 _____
 _____ 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, Communication Studies, HON 130, Theater, ED 350

ENG Lit* _____ 3 _____
 ED 350* _____ 3 _____
 _____ 3 _____

III. HEALTH AND PERSONAL PERFORMANCE (3 Cr)

A. Health and Wellness (2 Credits)
 _____ 2 _____

Personal Performance (1 course and 1 credit)
 _____ 1 _____

IV. General Education Electives 6 CREDITS

Credits to total 48 from Gen. Ed. Up to 1 credit from III-B allowed.
 ED 225 _____ 3 _____

TOTAL CREDITS 122
No changes since Fall 2021

SECONDARY EDUCATION CORE – 33 CREDITS

ED 110 Ed Found for Middle & Sr. High _____ 3 _____
 ED 122 Educational Psychology _____ II B _____
 ED 125 School Law and Ethics _____ 3 _____
 ED 225 Multicultural Education _____ IV _____
 ED 327 Instructional Strategies and Management _____ 3 _____
 ED 333 Reading in the Content Area _____ 3 _____
 ED 350 English Language Learners _____ II C _____
 SPED 442 Differentiating Instruction _____ 3 _____
 SPED 447 Teaching Students with Disabilities _____ 3 _____

CHOOSE ONE OF THE FOLLOWING:

SPED 111 Intro to Spec. Ed. & MTSS _____ 3 _____
 OR

SPED 418 Except. in Reg. Classroom

SECONDARY BLOCK* – Must be taken concurrently

ED 329 Educational Assessment* _____ 3 _____
 ED 332 Methods of Teaching Secondary Science * _____ 3 _____
 ED 417 Tech for Middle & High School Educators _____ I D _____

STUDENT TEACHING

ED 424 Student Teaching _____ 3-6 _____
 ED 425 Student Teaching _____ 3-6 _____

EARTH & SPACE SCIENCE SPECIALIZATION – 41 CREDITS

Required Core (23 Credits)

CHEM 153 Gen Chem I _____ 3 _____
 CHEM 154 Gen Chem II _____ 3 _____
 CHEM 163 Gen Chem I (Lab) _____ 1 _____
 CHEM 164 Gen Chem II (Lab) _____ 1 _____
 ES 150 Physical Geology _____ 4 _____
 ES 200 Solar System Astron. _____ 3 _____
 ES 250 Historical Geology _____ 4 _____
 ES 260 Environmental Geology _____ 3 _____
 ES 270 Oceanography _____ 3 _____
 ES 280 Meteorology _____ 3 _____
 SCED 476 Science Technology Society _____ 3 _____

Choose from one of the following specializations:

GEOLOGY (10 Credits minimum)

ES 255 Landforms _____ 4 _____
 ES 330 Hydrogeology _____ 4 _____
 ES 355 Paleontology _____ 3 _____
 ES 360 Mineralogy _____ 4 _____
 ES 370 Petrology _____ 4 _____

PLANETARIUM MANAGEMENT (10 Credits)

ES 201 Stellar Astronomy _____ 3 _____
 SCED 485 Planetarium Management _____ 3 _____
 COOP 497 Planetarium Management** _____ 3 _____

** Variable Credit course, credits above 4 not counted towards major

Required Proficiencies (Grade of C or Higher)
 *Designates courses that fulfill a required proficiency.
 Secondary Education Core, Secondary Block and Earth & Space specialization courses require a Grade "C" or higher.

FLAGS – Record Below

* _____ First Year Values (V) _____ Second Year Values (V)
 _____ Writing Intensive (W) _____ Quantitative Reasoning (Q)
 _____ Information Literacy (I) _____ Writing Intensive (W)

**CONTENT COMPETENCIES REQUIRED FOR
CERTIFICATION IN PENNSYLVANIA
LITERATURE/LANGUAGE**

MATHEMATICS

MATH 171: Pre-calculus
MATH 112 – 999

ENGL 130: The Literary Experience
ENGL 140: Introduction to Drama as Literature
ENGL 150: Movie Studies
ENGL 200: Composition and Literature
ENGL 209: Special Topics in Literature
ENGL 210: Myth, Lit & Popular Culture
ENGL 221: English Literature to 1800
ENGL 222: English Literature since 1800
ENGL 223: Survey of American Literature
ENGL 225: American Literature to 1860
ENGL 226: American Literature since 1860
ENGL 227: World Literature
ENGL 228: Modern and Contemporary World Literature
ENGL 230: Intro. To African-American Literature
ENGL 231: Introduction to Asian-American Literature
ENGL 237: The English Bible as Lit
ENGL 241: Voices in Canadian Literature
ENGL/ANTH 242: Introduction to American Folklore
ENGL 244: Special Topics
ENGL 246: Environmental Lit & Writing
ENGL 249: Satire
ENGL 250: Studies in Western Mythology
ENGL 252: Intro to Native American Lit
ENGL 265: Survey of Women's Literature
ENGL 311: Studies in the 16th Century English Literature
ENGL 313: Studies in the 17th Century English Literature
ENGL 315: Studies in the 18th Century English Literature
ENGL 317: Studies in English Romantic Literature
ENGL 318: Literature & Medicine
ENGL 319: Studies in Victorian Literature
ENGL 321: Medieval & Renaissance British Lit
ENGL 322: 17th & 18th C. British Lit
ENGL 324: 20th C. British Literature
ENGL 325: Early American Literature
ENGL 326: American Romanticism
ENGL 327: American Realism and Naturalism
ENGL 328: American Literature from 1900 to 1945
ENGL 329: Contemporary American Literature
ENGL 331: Studies in the African-American Novel
ENGL 332: 19th Century British Novel
ENGL 333: 20th Century British Novel
ENGL 339: Short Stories
ENGL 341: 20th Century Poetry
ENGL 342: English Drama to 1642
ENGL 343: English Drama from 1660 to 1850
ENGL 344: Modern Drama to 1950
ENGL 345: Contemporary Drama
ENGL/ANTH 352: Topics in Folklore
ENGL 354: Topics in World Literature
ENGL 357: Lit & Culture on the 1960's
ENGL 365: Images of Women in Literature
ENGL 470: Literature for Young Adults