Harper College		Elmhurst University	
Associate in Science Degree Requirements	Credits		Credits
General Education Core Curriculum Requirements:	40-41	Integrated Curriculum Equivalencies:	
Communication:	9	Writing & Reasoning:	
Written: ENG 101 Composition ENG 102 Composition		ENG 105 Composition I ENG 106 Composition II	
Oral: SPE 101 Fundamentals of Speech Communication		COM 213 Public Speaking	
Mathematics:	5	Mathematics:	
MTH 200 Calculus I		MTH 151 Calculus I	
Physical & Life Sciences:	8-9	Physical & Life Sciences:	
Life Sciences:		Life Sciences:	
Biology: 104, 110, 115, 116, 120, 140		Biology: BIO 105 Environmental Biology, BIO 100 Principles of Biology, BIO 200 General Biology I, BIO 201 General Biology II, Life Sciences Area of Knowledge, BIO 221 Microbiology for Health Professionals	

Physical Sciences:		Physical Sciences:	
Astronomy: 112, 115 Chemistry: 103, 105, 110, 121		Astronomy: All equivalent to AST 212 Introduction to Astronomy	
Earth Science: 110, 111, 121		Chemistry: Physical Sciences Area of Knowledge, CHM 100 Chemistry in the Natural World, CHM 101 General Chemistry, CHM 211 Chemical Principles I	
Geography: 111 and 112 Physics: 110, 112, 121, 201		Earth Science: Physical Sciences Area of Knowledge, GEO 102 Earth System Science, GEO 105 Intro to Atmospheric Science	
		Geography: GEO 102 Earth System Science	
		Physics: PHY 101 Physical Science, Physical Sciences Area of Knowledge, PHY-111 Introductory Physics I, PHY 121 General Physics I	
Humanities & Fine Arts: Select three courses with at least being a Humanities course and at least one being a Fine Arts course.	9	Humanities & Fine Arts:	
Humanities:		Any course within the Humanities discipline will fulfill a requirement for an Area of Knowledge or Tag within the	
History or Humanities: 105		Elmhurst University Integrated Curriculum.	
Humanities: 120			
Literature : 105, 110, 115, 206, 207, 208, 210, 221, 222, 223, 224, 231, 232			

Harper College Associate in Arts to EU Bachelor of Science in Mathematics with Secondary Licensure

Philosophy:	105, 115,	160, 205,	215, 220,	232, 232
-------------	-----------	-----------	-----------	----------

Fine Arts:

Art: 105, 114, 130, 131, 132, 133

Mass Communication- Multimedia: 200

Music: 103, 104, 106, 107, 108

Theater: 111, 121

Fine Arts Courses:

Art: Fine Arts Area of Knowledge, Fine Arts Area of Knowledge ART-341 Survey History of Western Art, ART-342 Survey History of Modern Art, Fine Arts Area of Knowledge

MCM: Fine Arts Area of Knowledge

Music: Fine Arts Area of Knowledge Fine Arts Area of

Knowledge,

Fine Arts Area of Knowledge, Social and Political Analysis Area of

Knowledge

Theater: THE-227, Fine Arts Area of Knowledge, Fine Arts Area

of Knowledge

Harper College Associate in Arts to EU Bachelor of Science in Mathematics with Secondary Licensure

Social & Behavioral Sciences:

Select 3 courses from at least two disciplines.

Anthropology: 101, 202

Geography: 101, 103, 104

History: 111, 112, 121, 141, 142, 231, 232, 241, 242, 243,

245

Political Science: 101, 220, 250, 270, 280

Psychology: 101*

Sociology: 205, 230, 235

* PSY 101 meets the perquisite for Educational Psychology which is needed for the major. Therefore, PSY 101 is highly recommended in this category.

9 Social & Behavioral Sciences:

Completion of THREE courses in this category at Harper College satisfies THREE Elmhurst University Integrated Curriculum requirements.

Prescribed General Electives:	25	Prescribed General Electives Equivalencies:	
Complete the following courses at Harper College:			
MTH 130 Mathematics for Elementary Teaching I (4)		MTH 325 Mathematical Concepts for Elementary Teachers I	
MTH 131 Mathematics for Elementary Teaching II (4)		MTH 326 Mathematical Concepts for Elementary Teachers II	
MTH 201 Calculus II (5)		MTH 152 Calculus II	
MTH 202 Calculus III (5)		MTH 251 Calculus III	
MTH 203 Linear Algebra (4)		MTH 362 Linear Algebra	
MTH 220 Discrete Mathematics (3)		MTH 301 Discrete Mathematics	
Teacher Education Electives:	9	Teacher Education Program Admission	
		Requirement Equivalencies:	
EDU 201 Introduction to Education (3)		FDU 104 Cultural Foundations of Education in the U.S.	
EDU 211 Educational Psychology (3)		EDU 311 Educational Psychology	
EDU 219 Students with Disabilities in School (3)		EDU 223 Education of PK-12 Learners with Exceptionalities	
Total Harper College Credits	74-75	Please note GPA requirements and a separate Department of	
Total Harper College Creates	, , , , ,	Education, Teacher Education Program (TEP) application found at	
		elmhurst.edu/eduadmission is required in addition to the college	
		application.	

MTH 331 Foundations of Geometry (4) MTH 346 Statistics for Scientists (4) MTH 361 Abstract Algebra (4) MTH 381 Real Analysis (4) MTH 400 Research Methods in Mathematics (2) MTH 451 Senior Paper (2)	20
Licensure Requirements: SEC 100 Introductory Seminar Teaching as a Caring Profession (1) SEC 300 Intermediate Seminar for teaching in Diverse & Inclusive Schools (1) SEC 310 Methods and Best Practices in Secondary Education (4) TEL 317 Methods and Materials for Teaching ESL (3) SEC 360 The Middle School: History, Philosophy, Organizational Structures, and Best Practices (4) SEC 421 Theory and Practice for Building Academic Literacies in K- 12 Classrooms (4) MTH 440 Teaching of Secondary School Mathematics (4) SEC 450 Advanced Seminar in Teacher Collaboration & Professional Practice (1) SEC 455 Student Teaching in Secondary and Middle Schools (12)	34

**Please note – the degree map currently totals 124 to 125 credits and therefore, students will need to add extra semester hours of elective credit to meet graduation hour requirements of 128 hours.	
Total Elmhurst University Credits	128