

Degree Map
 Harper College *Associate in Science to EU Bachelor of Science in Chemistry with
 Licensure*

Harper College		Elmhurst University	
Associate of Science Degree Requirements	Credits		Credits
<u>General Education Core Curriculum Requirements:</u>	34	<u>Integrated Curriculum Equivalencies:</u>	
<u>Communication:</u> <i>Written:</i> ENG 101 Composition ENG 102 Composition <i>Oral:</i> SPE 101 Fundamentals of Speech Communication	9	<u>Writing & Reasoning:</u> ENG 105 Composition I ENG 106 Composition II COM 213 Public Speaking	
<u>Mathematics:</u> MTH 200 Calculus I	5	<u>Mathematics:</u> MTH 151 Calculus I	
<u>Physical & Life Sciences:</u> <u>Life Science:</u> BIO 115 Fundamentals of Cellular Biology <u>Physical Science:</u> GEO 111 + 112 Physical Geography + Physical Geo. Lab	8	<u>Physical & Life Sciences:</u> <u>Life Science:</u> Biology: BIO 200 General Biology I <u>Physical Science:</u> GEO 102 Earth System Science	

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<p><u>Humanities & Fine Arts:</u> Select one Humanities course and one Fine Arts course.</p> <p>Humanities:</p> <p>History or Humanities: 105</p> <p>Humanities: 120</p> <p>Literature: 105, 110, 115, 206, 207, 208, 210, 221, 222, 223, 224, 231, 232</p> <p>Philosophy: 105, 115, 160, 205, 215, 220, 232, 232</p> <p>Fine Arts:</p> <p>Art: 105, 114, 130, 131, 132, 133</p> <p>Mass Communication- Multimedia: 200</p> <p>Music: 103, 104, 106, 107, 108</p> <p>Theater: 111, 121</p>	<p>6</p>	<p><u>Humanities & Fine Arts:</u></p> <p>Any course within the Humanities discipline listed will fulfill a requirement for an Area of Knowledge or Tag within the Elmhurst University Integrated Curriculum.</p> <p>Fine Arts Courses:</p> <p>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</p> <p>MCM: Fine Arts Area of Knowledge</p> <p>Music: Fine Arts Area of Knowledge Fine Arts Area of Knowledge, Fine Arts Area of Knowledge, Social and Political Analysis Area of Knowledge</p> <p>Theater: THE-227, Fine Arts Area of Knowledge, Fine Arts Area of Knowledge</p>	
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<p><u>Social & Behavioral Sciences:</u></p> <p>Select 2 courses from at least two disciplines.</p> <p>Anthropology: 101, 202</p> <p>Geography: 101, 103, 104</p> <p>History: 111, 112, 121, 141, 142, 231, 232, 241, 242, 243, 245</p> <p>Political Science: 101, 220, 250, 270, 280</p> <p>Psychology: 101*</p> <p>Sociology: 205, 230, 235</p> <p>* PSY 101 meets the prerequisite for Educational Psychology which is needed for the major. Therefore, PSY 101 is highly recommended in this category.</p>	<p>6</p>	<p><u>Social & Behavioral Sciences:</u></p> <p>Completion of TWO courses in this category at Harper College satisfies Elmhurst University Integrated Curriculum requirements.</p>	
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<p><u>Prescribed General Electives:</u> Complete the following courses at Harper College:</p> <p>BIO 116 Fundamentals of Organismal Biology (4) CHM 121 General Chemistry I (5) CHM 122 General Chemistry II (5) CHM 204 Organic Chemistry I (5) CHM 205 Organic Chemistry II (5) MTH 201 Calculus II (5)</p>	29	<p><u>Prescribed General Electives:</u></p> <p>BIO 201 General Biology II CHM 211 Chemical Principles I CHM 212 Chemical Principles II CHM 311 Organic Chemistry I CHM 312 Organic Chemistry II MTH 152 Calculus II</p>	
<p><u>Prescribed Licensure Electives:</u></p> <p>EDU 201 Introduction to Education (3) EDU 211 Educational Psychology (3) EDU 219 Students with Disabilities in School (3)</p>	9	<p><u>Teacher Education Program Admission Requirements:</u></p> <p>EDU 104 Cultural Foundations of Education in the U.S. EDU/SEC 311 Educational Psychology EDU/SEC 223 Education of PK-12 Learners with Exceptionalities</p>	
<p>Total Harper College Credits</p>	72	<p>Please note GPA requirements and a separate Department of Education application found at elmhurst.edu/eduadmission is required in addition to the college application.</p>	

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	<p><u>Chemistry Major Requirements:</u></p> <p>CHM 221 Analytical Chemistry (4) CHM 412 Physical Chemistry: Quantum Mechanics & Spectroscopy (4) CHM 413 Physical Chemistry: Thermodynamics, Kinetics, & Statistical Mechanics (4) CHM 420 Chemical Instrumentation I (3) CHM 421 Chemical Instrumentation II (2) CHM 494 Chemistry Research (2) CHM 496 Chemistry Research Seminar I (1) CHM 497 Chemistry Literature Seminar I (1) CHM 498 Chemistry Literature Seminar II (1) CHM 499 Chemistry Research Seminar II (1) CHM 3XX/4XX Upper Level Chemistry Elective (4) CHM 3XX/4XX Upper Level Chemistry Elective (4) CHM 3XX/4XX Upper Level Chemistry Elective (4)</p>	43
	<p><u>Licensure Requirements:</u></p> <p>PHY 121 General Physics I (4) PHY 122 General Physics II (4) 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)</p>	42

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	SEC 421 Theory and Practice for Building Academic Literacies in K-12 Classrooms (4) SEC 450 Advanced Seminar in Teacher Collaboration & Professional Practice (1) SEC 440/441 The Teaching of Middle School Science/Secondary Science (4) SEC 455 Student Teaching in Secondary and Middle Schools (12)	
	Total Elmhurst University Credits	157