

**Elgin Community College & Aurora University
Mathematics Secondary Education 2+2**

First Year at ECC

First Semester

Second Semester

ECC	AU	ECC	AU
ENG 101 English Composition I (3)	ENG 1000 Introduction to Academic Writing (4)	ENG 102 English Composition II (3)	English Elective (4)
MTH 190 Calculus with Analytic Geometry I (5)	MTH 2210 Calculus and Analytic Geometry I (4)	MTH 210 Calculus with Analytic Geometry II (5)	MTH 2220 Calculus and Analytic Geometry II (4)
EDN 100 Introduction to Education (3)	EDU 2100 Foundations of Teaching and Learning (4)	EDN 204 Exceptional Individual (3)	SPED 2120 Characteristics/Identification of Disabilities and the Law (4)
PSY 100 Introduction to Psychology (3)	PSY 1100 General Psychology (4)	PSY 212 Child Psychology (3) OR PSY 213 Adolescence (3)	PSY 3350 Child and Adolescent Development OR PSY Elective (4)
Physical Science Gen Ed (3-5)	Elective (4)		

Second Year at ECC

Third Semester

Fourth Semester

ECC	AU	ECC	AU
MTH 230 Calculus with Analytic Geometry III (5)	MTH 2230 Calculus and Analytic Geometry III (4)	MTH 240 Introduction to Linear Algebra (4)	MTH 3250 Linear Algebra (4)
CIS 121 Computer Science I (4)	CSC 1700 Intro to Computer Programming (4)	Social Science Gen Ed (3)	General Education (4, Cultural Literacy)
CMS 101 Fundamentals of Speech (3)	COM 1550 Professional Communication (4)	Fine Arts Gen Ed (3)	General Education (4, Artistic Literacy)
PSY 211 Educational Psychology (3)	EDU 2260 Learning Theories and Applications K-12 (4)	Humanities Gen Ed (3)	Elective (4)
		Life Science Gen Ed (3-4)	Elective (4)

Third Year Suggestions at Aurora University

AU Course Number	AU Course Title	Semester Hours
MTH 2500	Problem Solving, Modeling and Design	4
MTH 3240	Probability and Statistics I	4
MTH 3320	Applied Geometry	4
MTH 4300	Introduction to Real Analysis	4
EDU 3200	Content Area Methods for the Secondary Classroom	4
EDU 3240	Secondary Methods in Mathematics and Computer Science	4
EDU 3720	Reading Across the Curriculum	4
SPED 4620	Collaboration Models for Inclusion	4
IDS 3500	Junior Mentoring I	1

Fourth Year Suggestions at Aurora University

MTH 4450	Abstract Algebra	4
MTH 4990	Senior Capstone in the Mathematical Sciences	4
EDU 3620	Teaching and Assessing Diverse Learners in the Secondary Classroom	4
EDU 4750	Student Teaching	13
EDU 4760	Student Teaching Seminar	2