

Civil Engineering Student Handbook

Academic Year 2016-17

PART TWO: CURRICULUM FOR CLASS OF 2020

Last updated: 19 October 2016

**VILLANOVA UNIVERSITY - COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

**CLASS OF 2020
TOTAL = 131 credits**

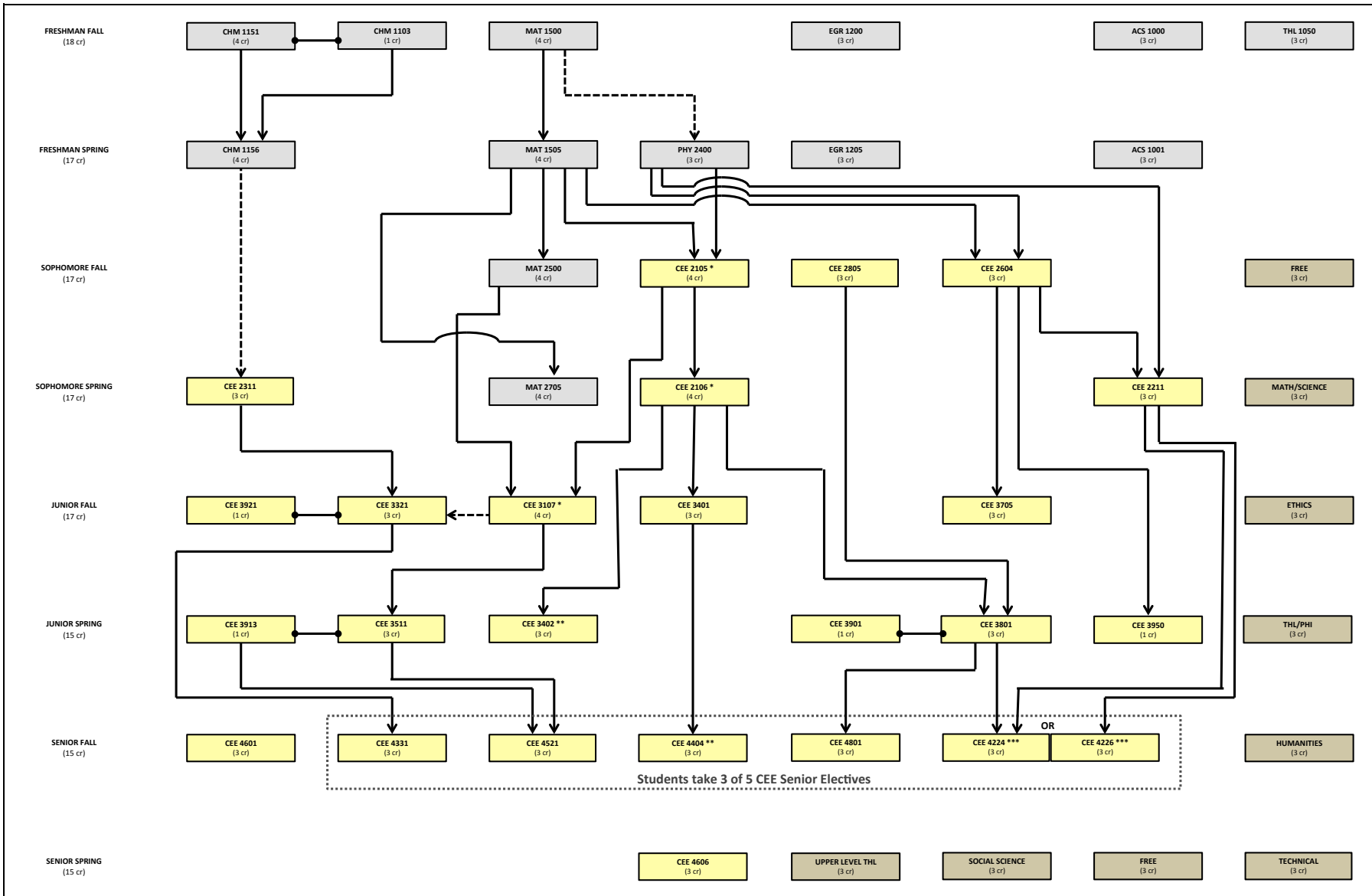
EGR 1200	Egr Interdisciplinary Project I	3	EGR 1205	Egr Interdisciplinary Project II	3
MAT 1500	Calculus I	4	MAT 1505	Calculus II	4
CHM 1151	General Chemistry I	4	CHM 1156	General Chemistry II for Egr	4
CHM 1103	General Chemistry Lab I	1	PHY 2400	Physics I Mechanics	3
ACS 1000	Ancients	3	ACS 1001	Moderns	3
THL 1000	Faith, Reason, and Culture	3			
		18			17
CEE 2105	Mechanics I: Fund. Behavior *	4	CEE 2106	Mech II: Material Behavior *	4
CEE 2604	Civil Engineering Fundamentals	3	CEE 2211	Transportation Engineering	3
CEE 2805	Geology for Engineers	3	CEE 2311	Environmental Engr Science	3
MAT 2500	Calculus III	4	MAT 2705	Diff Equation with Linear Alg	4
	Humanities Elective ****	3		Math/Science Elective ****	3
		17			17
CEE 3107	Mechanics III: Fluid Behavior *	4	CEE 3801	Soil Mechanics	3
CEE 3401	Structural Analysis	3	CEE 3901	Soil Mechanics Lab	1
CEE 3321	Water & Wastewater Treatment	3	CEE 3511	Hydraulic Egr & Hydrology	3
CEE 3921	Environmental Egr Lab	1	CEE 3913	Hydraulic Egr & Hydrology Lab	1
CEE 3705	Engineering Economics	3	CEE 3950	Graphical Communications	1
	Ethics Elective ****	3	CEE 3402	Structural Steel Design (or CEE 4404 **)	3
		17		Theology/Philosophy Elective ****	3
					15
CEE 4xxx	CEE Senior Electives (3 of 5):	3	CEE 4606	CEE Capstone Design Project	3
CEE 4xxx	CEE 4224 or 4226 ***, CEE 4331,	3		Upper THL Elective ****	3
CEE 4xxx	CEE 4404 **, CEE 4521, CEE 4801	3		Social Science Elective ****	3
CEE 4601	CEE Professional Practice	3		Free Elective ****	3
	Free Elective ****	3		Technical Elective ****	3
		15			15

* Mechanics courses (CEE 2105, CEE 2106, and CEE 3107) may be satisfied by alternative paths. See separate sheet for specific details.

** CEE 4404 may be used in place of CEE 3402 requirement listed in Junior Spring, if CEE 4404 is not used as a CEE Senior Elective.

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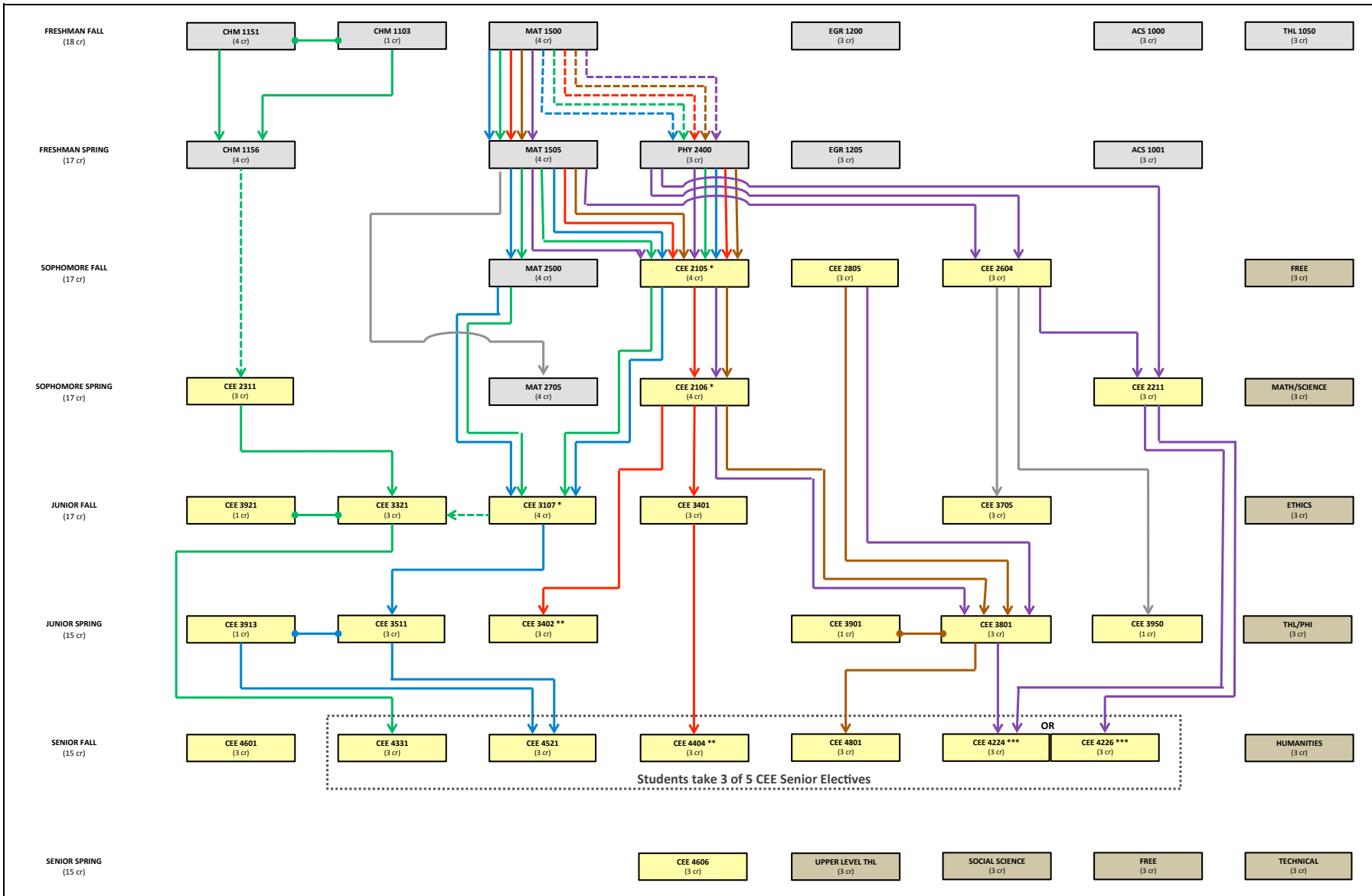


LEGEND:

REQUIRED CEE COURSES	REQUIRED GENERAL COURSES	GENERAL ELECTIVES
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Prerequisite
 Corequisite
 Prerequisite that may be taken concurrently

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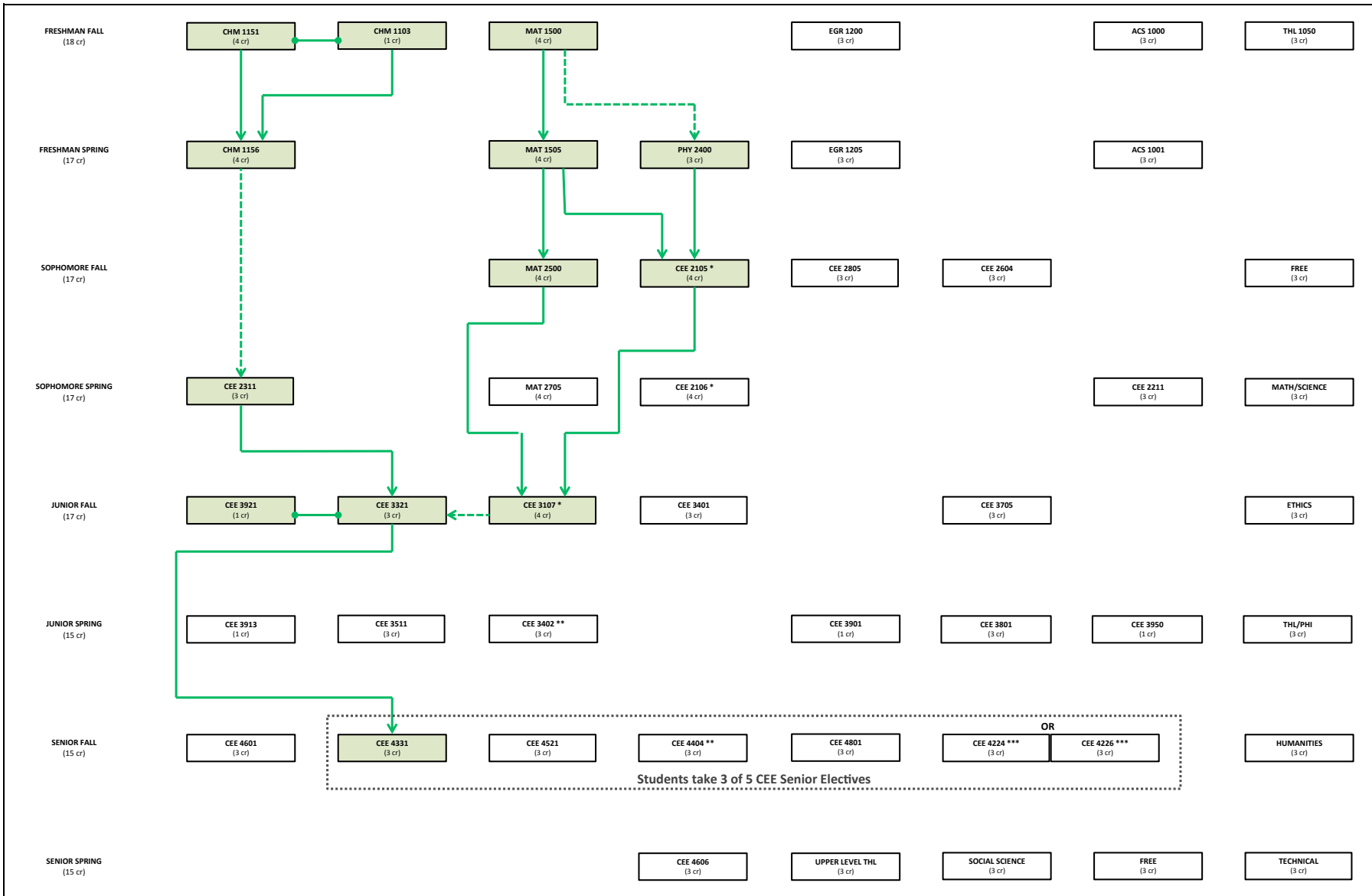
REQUIRED CEE COURSES
REQUIRED GENERAL COURSES
GENERAL ELECTIVES

PREREQUISITE ARROWS

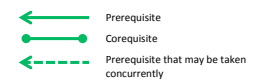
↓ Environmental
 ↓ Water Resources
 ↓ Structural
 ↓ Geotechnical
 ↓ Transportation
 ↓ General

—●— Corequisite
←- - - Prerequisite that may be taken concurrently

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ENVIRONMENTAL

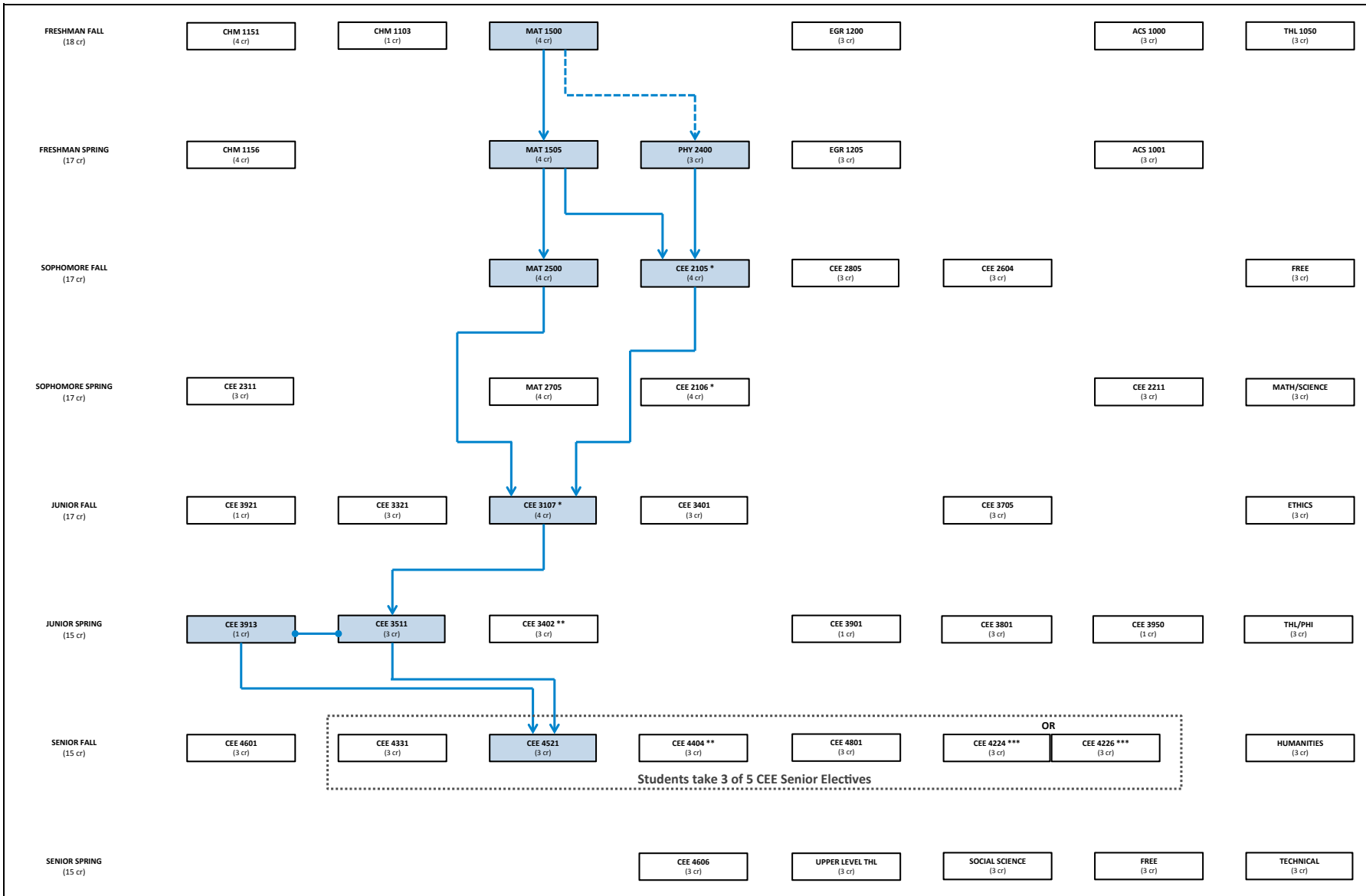


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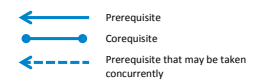
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WATER RESOURCES

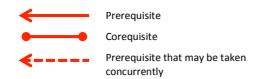
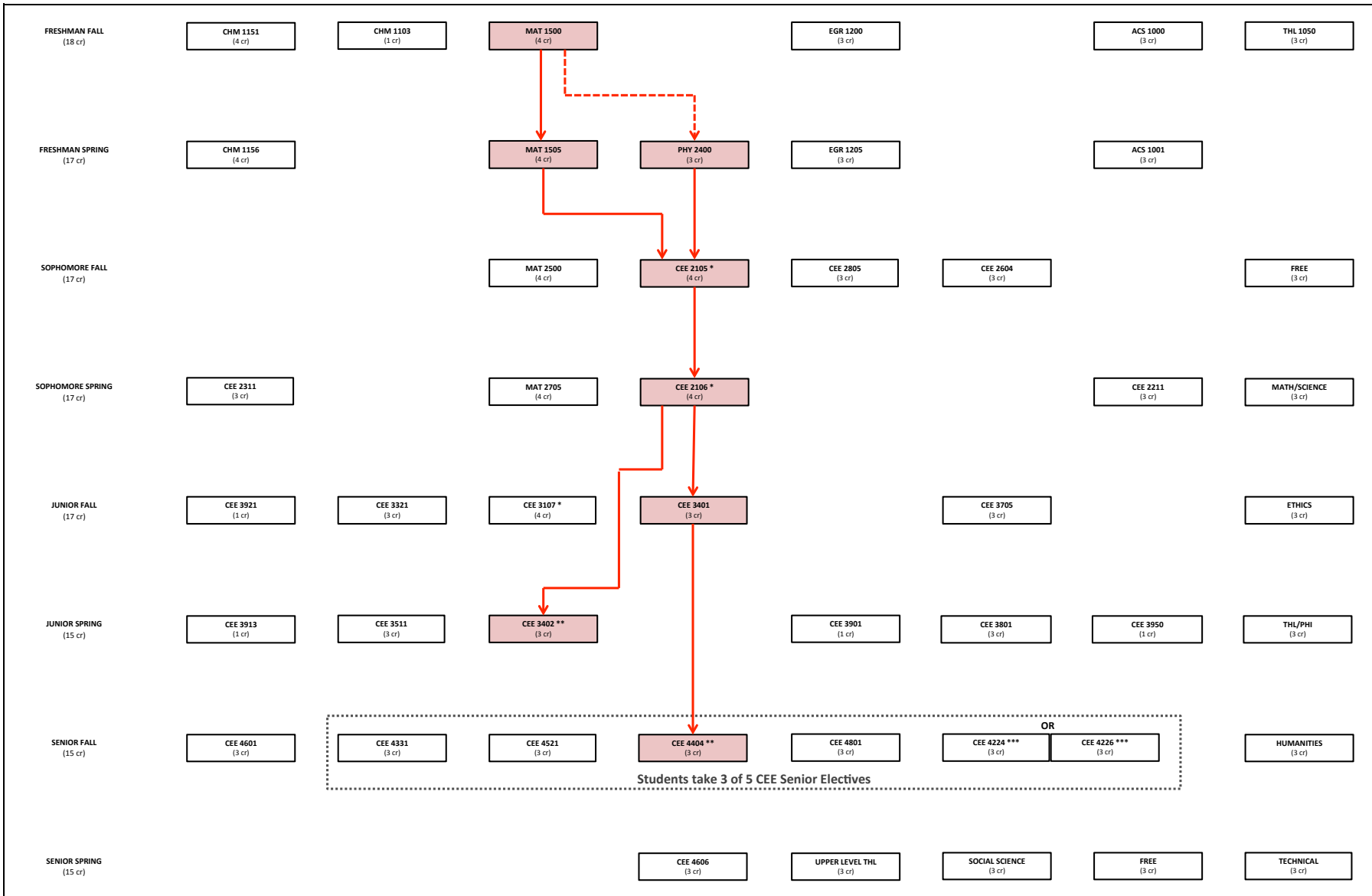


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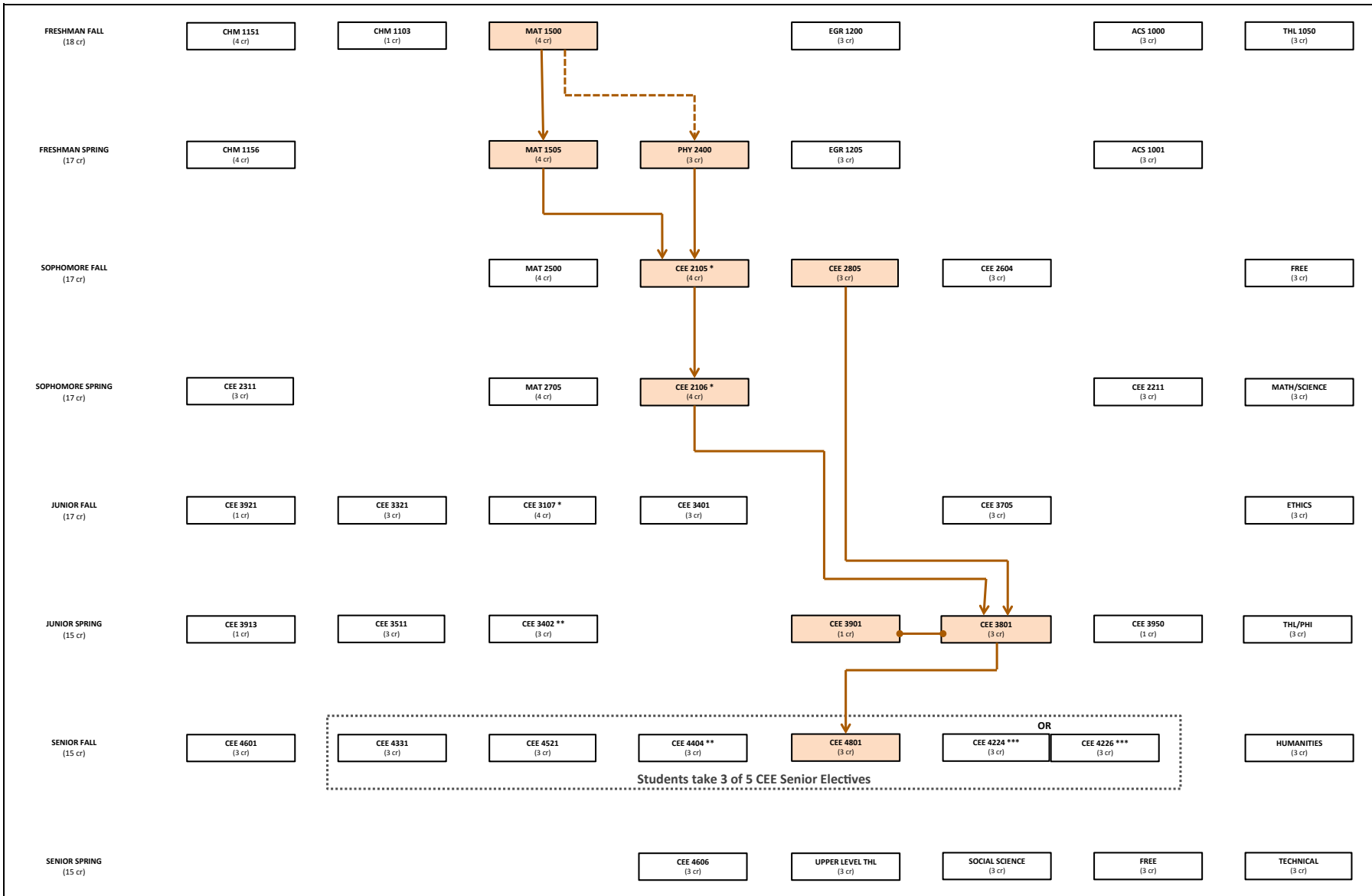


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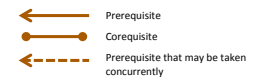
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GEOTECHNICAL

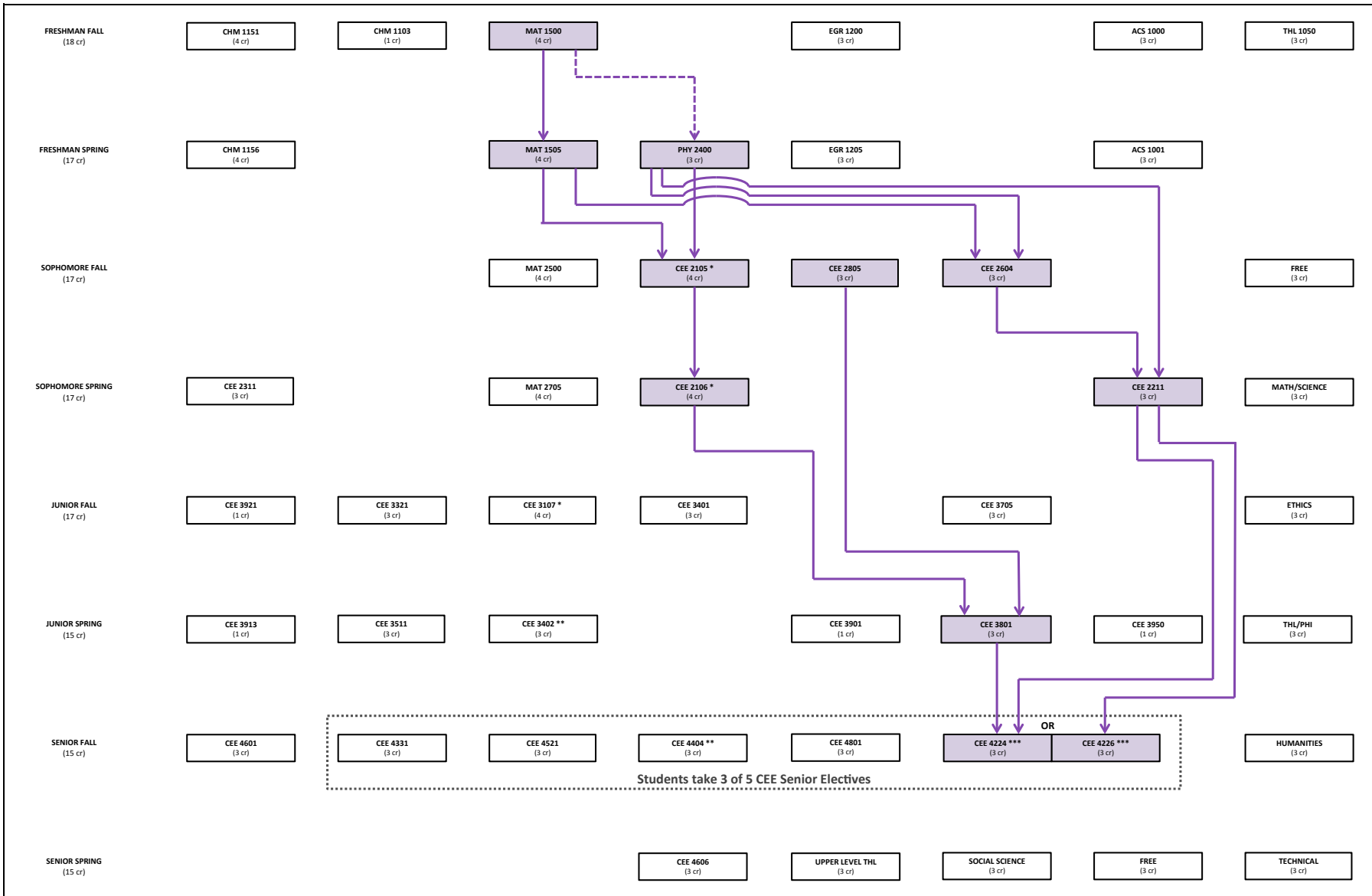


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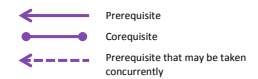
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TRANSPORTATION



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