

Caldwell University

Major: Mathematics

Suggested Four-Year Major Plan (Academic Year 2016-2017)

The Suggested Four-Year Major Plan is a guide to help Caldwell University students complete their graduation requirements within four years. It is a suggested framework which builds upon the core curriculum as well as the required and elective courses within a student's major. This suggested plan does not include developmental courses. Should developmental courses be required, students will need to work with their Academic Advisor to include those additional courses; this may delay graduation in four years. Students should always meet with their Academic Advisor to further individualize their academic plans and confirm the availability of courses and course sequencing. The following credits below include the minimum required courses and credits needed to graduate. Students enrolled as full-time status may take 12-18 credits a semester.

NOTE: This suggested Four-Year Major Plan applies to students who matriculated during the 2016-2017 academic year.

First Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
Core: FS 189 – Freshman Seminar (Freshmen only)	1		MA 131 – Foundations of Analysis II (Track A) or MA 221 – Calculus II (Track B) (based on placement)**	3 or 4	
Core: EN 111 – College Writing* (or EN 320 or EN 119&120 by placement)	3		Core: Fine Arts – Art or Music (Track A) or MA 214 – Linear Algebra (Track B)	3	
MA 130 – Foundations of Analysis I (Track A) or MA 220 – Calculus I (Track B) (based on placement)**	3 or 4		Enriched Core Cluster - (Ethical Inquiry /Global Awareness/Catholic & Dominican)	3	
Core: CO 230 – Communication Skills (or DR 102, 103, 104)	3		Core: HI 101 – Roots of the West or HI 102 – The Shaping of the West	3	
Core: Modern Language Core – SP/FR/AS/IT	3		Core: Social Science	3	
Core: TH 102 – Intro. to Christian Theology	3				
Total:	16 or 17		Total:	15 or 16	

Second Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
MA 220 – Calculus I (Track A) or MA 324 – Calculus III (Track B)	4		MA 221 – Calculus II (Track A) or MA 325 – Calculus IV (Track B)	4 or 3	
Enriched Core Cluster – (Ethical Inquiry /Global Awareness/Catholic & Dominican) (Track A) or MA 309 – Foundations of Mathematics (Track B)	3		MA 214 – Linear Algebra (Track A) Core: Fine Arts – Art or Music (Track B)	3	
Core: Biological or Physical Science	3		Core: Social Science	3	
Core: PH 102 – Intro. to Philosophy	3		Enriched Core Cluster – (Ethical Inquiry /Global Awareness/Catholic & Dominican)	3	
Core: Literature – EN xxx	3		Elective	3	
Total:	16		Total:	16 or 15	

Third Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
MA 309 – Foundations of Mathematics (Track A) or Enriched Core Cluster – (Ethical Inquiry /Global Awareness/Catholic & Dominican) (Track B)	3		MA 325 – Calculus IV (Track A) Elective (Track B)	3	
MA 324 – Calculus III (Track A) Elective (Track B)	4 or 3		MA 413 – Integrating Technology into Mathematics (Tracks A and B)	3	
Mathematics Major Elective*** (Track A and B)	3		MA 420 – Abstract Algebra (Tracks A and B)	3	
MA 311 – Probability and Statistics I or MA 207 – Applications of Statistics I (Tracks A and B)	3		Elective	3	
Elective	3		Elective	3	
Total:	16 or 15		Total:	15	

Fourth Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
MA 307 – Modern Geometry (Tracks A and B)	3		Mathematics Major Elective*** (Tracks A and B)	3	
MA 450 – Coordinating Seminar (Tracks A and B)	1		Elective	3	
Mathematics Major Elective*** (Tracks A and B)	3		Elective	3	
Elective	3		Elective	3	
Elective	3		Elective	3	
Total:	13		Total:	15	

*A second writing intensive (WI) course is required. Students are recommended to complete it before the end of their fourth semester. Students who transfer to Caldwell with a minimum of 30 credits will have their second WI course waived.

**Suggested Four-Year Major Plan includes two tracks based on initial math placement. Students who are placed in MA 130 in the Fall, should follow the first

course in the recommended sequence. Students who are placed in MA 220 in the Fall should follow the second course in the recommended sequence.

***Students must complete three additional math course at the 200-level or higher.

Total Credits Required (minimum): 122 credits

GPA: 2.0

Minimum Grade in Major Courses: C