Two-Year Cycle for Mathematics Courses

Offered Fall Even Years (Fall, 2016)	**Offered Fall Odd Years (Fall, 2017)**
1. MATH 102: Intermediate Algebra 2. MATH 104: College Algebra 3. MATH 105: Precalculus 4. MATH 170: Mathematics in Society 5. MATH 201: Calculus I 6. MATH 202: Calculus II 7. MATH 311: Calculus III 8. MATH 320: Linear Algebra 9. MATH 328: Abstract Algebra 10. MATH 482: History of Mathematics 11. MATH 499: Senior Project	1. MATH 102: Intermediate Algebra 2. MATH 104: College Algebra 3. MATH 105: Precalculus 4. MATH 170: Mathematics in Society 5. MATH 201: Calculus I 6. MATH 202: Calculus II 7. MATH 311: Calculus III 8. MATH 320: Linear Algebra 9. MATH 328: Abstract Algebra 10. MATH 375: Mathematical Modeling 11. MATH 499: Senior Project
Occasionally Offered in January	**Occasionally Offered in January**
1. MATH 170: Mathematics in Society	1. MATH 170: Mathematics in Society
Offered Spring Odd Years (Spring, 2017)	**Offered Spring Even Years (Spring, 2018)**
1. MATH 102: Intermediate Algebra 2. MATH 104: College Algebra 3. MATH 105: Precalculus 4. MATH 170: Mathematics in Society 5. MATH 201: Calculus I 6. MATH 202: Calculus II 7. MATH 305: Transition to Adv. Math. 8. MATH 311: Calculus III 9. MATH 315: Differential Equations 10. MATH 327: Discrete Mathematics 11. MATH 351: Probability	1. MATH 102: Intermediate Algebra 2. MATH 104: College Algebra 3. MATH 105: Precalculus 4. MATH 170: Mathematics in Society 5. MATH 201: Calculus I 6. MATH 202: Calculus II 7. MATH 305: Transition to Adv. Math. 8. MATH 311: Calculus III 9. MATH 315: Differential Equations 10. MATH 327: Discrete Mathematics 11. MATH 319: Vector Calculus 12. MATH 325: Number Theory

Important notes: red = core requirement for all math majors; green = required course for the B.S. in math; blue = one of several choices of required courses for the B.A.: one of Vector Calculus or Abstract Algebra, and one of Number Theory or Probability. *Senior comprehensive exams are required for all students.*

Note that CMPS 367 C++ **(with a prerequisite of CMPS 301),** and PHYS 203 Physics I: Mechanics and Physics II: Electricity and Magnetism are also required as supporting courses, and should be taken during lighter semesters, but as early as possible. *PHYS 203 and PHYS 204 are offered every fall and spring, respectively. CMPS 301 and CMPS 367 are both offered every fall and spring.*

Two additional elective courses (8 units) are required for the B.A., and three additional elective courses (12 units) are required for the B.S. Selected other (electives) are in parentheses. Other classes not listed, such as Foundations of Geometry, or Mathematical Statistics, may be taken as directed studies, or may be offered if a sufficient number of students show an interest.

Four-Year Suggested Schedules for Math Majors

Fall Even Year 1 Calculus I	**Fall Odd Year 1** Calculus I	**Spring Even Year 1** Calculus I	**Spring Odd Year 1** Calculus I
January Odd Year 1 non-math electives	**January Even Year 1** non-math electives	**Fall Even Year 2** Calculus II (History of Math)	**Fall Odd Year 2** Calculus II
Spring Odd Year 1 Calculus II	**Spring Even Year 1** Calculus II	**January Odd Year 2** non-math electives	**January Even Year 2** non-math electives
Fall Odd Year 2 Calculus III	**Fall Even Year 2** Calculus III (History of Math)	**Spring Odd Year 2** Calculus III Trans. to Adv. Math	**Spring Even Year 2** Calculus III Trans. to Adv. Math
January Even Year 2 non-math electives	**January Odd Year 2** non-math electives	**Fall Odd Year 3** Linear Algebra (Abstract Algebra) (Math. Modeling)	**Fall Even Year 3** Linear Algebra (Abstract Algebra) (History of Math)
Spring Even Year 2 Trans. to Adv. Math (Differential Equations) (Vector Calculus) (Discrete Math)	**Spring Odd Year 2** Trans. to Adv. Math (Differential Equations) (Probability) (Discrete Math)	**January Even Year 3** non-math electives	**January Odd Year 3** non-math electives
Fall Even Year 3 Linear Algebra (Abstract Algebra) (History of Math)	**Fall Odd Year 3** Linear Algebra (Abstract Algebra) (Math. Modeling)	**Spring Even Year 3** (Differential Equations) (Vector Calculus) (Number Theory) (Discrete Math)	**Spring Odd Year 3** (Differential Equations) (Probability) (Discrete Math)
January Odd Year 3 non-math electives	**January Even Year 3** non-math electives	**Fall Even Year 4** Linear Algebra (Abstract Algebra) (History of Math) Senior Project	**Fall Odd Year 4** Linear Algebra (Abstract Algebra) (Math Modeling) Senior Project,
Spring Odd Year 3 (Differential Equations) (Probability) (Discrete Math)	**Spring Even Year 3** (Differential Equations) (Vector Calculus) (Number Theory) (Discrete Math)	**January Odd Year 4** non-math electives	**January Even Year 4** non-math electives
Fall Odd Year 4 Linear Algebra (Abstract Algebra) (Math Modeling) Senior Project	**Fall Even Year 4** Linear Algebra (Abstract Algebra) (History of Math) Senior Project	**Spring Odd Year 4** (Differential Equations) (Probability) (Discrete Math)	**Spring Even Year 4** (Differential Equations) (Vector Calculus) (Number Theory) (Discrete Math)
January Even Year 4 non-math electives	**January Odd Year 4** non-math electives		
Spring Even Year 4 (Differential Equations) (Vector Calculus) (Number Theory) (Discrete Math)	**Spring Odd Year 4** (Differential Equations) (Probability) (Discrete Math)		

Important notes: red = core requirement for all math majors; green = required course for the B.S. in math; blue = one of several choices of required courses for the B.A.: one of Vector Calculus or Abstract Algebra, and one of Number Theory or Probability. *Senior comprehensive exams are required for all students.* **Note that** CMPS 367 C++ **(with a prerequisite of CMPS 301),** and PHYS 203 Physics I: Mechanics and Physics II: Electricity and Magnetism are also required as supporting courses, and should be taken during lighter semesters, but as early as possible. *PHYS 203 and PHYS 204 are offered every fall and spring, respectively. CMPS 301 and CMPS 367 are both offered every fall and spring.*

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