**Course Calendar for MATH 102**
*Academic years 2023–2024 and 2024–2025*

This MATH 102 course calendar was approved by the department on 11 April 2023. Notes:

- The aim is to build a reasonably paced course calendar that be followed without attempting to rush through last handful of sections.
- Some sections are marked for two class periods. We might be mistaken about which sections need more time, but at least those sections that span two class periods provide the schedule with some buffers.
- The textbook is *College Algebra*, Version $\lfloor\pi\rfloor$, Corrected Edition, by Carl Stitz and Jeff Zeager.
- We hope use this textbook and course calendar for the Academic years 2023–2024 and 2024–2025.
- Course instructors should meet toward the end of each term and to make needed tweaks to the calendar.
- This calendar has four midterm examinations and weekly homework assignments, but instructors are free to modify the course assessments.
- The LaTeX, code does automatic date arithmetic. Also, given the time of the class, it finds the correct day for the final exam.
- Each week of the calendar is spread over three rows, making the calendar natural for a MWF class and maybe a bit less natural for a TTh section.

**Class Calendar**
Fall 2023

| Week | Week of | Sections | Topics | Assessments |
|---|---|---|---|---|
| 1 | 21 Aug | 1.1 | Sets of Real Numbers and the Cartesian Coordinate Plane | |
| | | 1.2 | Relations | |
| | | 1.3 | Introduction to Functions | **HW 1** |
| 2 | 28 Aug | 1.4 | Function Notation | |
| | | 1.5 | Function Arithmetic | |
| | | 1.6 | Graphs of Functions | **HW 2** |
| 3 | 4 Sept | | **No class** (Labor Day) | |
| | | 1.7 | Transformations | |
| | | 2.1 | Linear Functions | **HW 3** |
| 4 | 11 Sept | 2.2 | Absolute Value Functions | |
| | | 1.1—2.2 | Exam review or catch up | |
| | | | **Exam Day** (15 Sept) | **Exam 1** |
| 5 | 18 Sept | 2.3 | Quadratic Functions | |
| | | 2.4 | Inequalities with Absolute Value and Quadratic Functions | |
| | | 2.4 | Inequalities with Absolute Value and Quadratic Functions | **HW 4** |
| 6 | 25 Sept | 3.1 | Graphs of Polynomials | |
| | | 3.2 | The Factor Theorem and the Remainder Theorem | |
| | | 3.3 | Real Zeros of Polynomials | **HW 5** |
| 7 | 2 Oct | 4.1 | Introduction to Rational Functions | |
| | | 4.2 | Graphs of Rational Functions | |
| | | 4.3 | Rational Inequalities and Applications | **HW 6** |
| 8 | 9 Oct | 4.3 | Rational Inequalities and Applications | |
| | | 2.3—4.3 | Exam review or catch up | |
| | | | **Exam Day** (13 Oct) | **Exam 2** |
| 9 | 16 Oct | | **No class** (Fall Break) | |
| | | 5.1 | Function Composition | |
| | | 5.2 | Inverse Functions | **HW 7** |
| 10 | 23 Oct | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| | | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| | | 6.2 | Properties of Logarithms | **HW 8** |
| 11 | 30 Oct | 6.2 | Properties of Logarithms | |
| | | 6.3 | Exponential Equations and Inequalities | |
| | | 6.4 | Logarithmic Equations and Inequalities | **HW 9** |
| 12 | 6 Nov | 5.1—6.4 | Exam review or catch up | |
| | | | **Exam Day** (8 Nov) | **Exam 3** |
| | | 6.5 | Applications of Exponential and Logarithmic Functions | |
| 13 | 13 Nov | 6.5 | Applications of Exponential and Logarithmic Functions | |
| | | 8.1 | Systems of Linear Equations: Gaussian Elimination | |
| | | 8.1 | Systems of Linear Equations: Gaussian Elimination | **HW 10** |
| 14 | 20 Nov | 8.2 | Systems of Linear Equations: Augmented Matrices | **HW 11** |
| | | | **No class** (Thanksgiving) | |
| | | | **No class** (Thanksgiving) | |
| 15 | 27 Nov | 9.1 | Sequences | |
| | | 6.5—9.1 | Exam review or catch up | |
| | | | **Exam Day** (1 Dec) | **Exam 4** |
| 16 | 4 Dec | 9.2 | Summation Notation | |
| | | 9.2 | Summation Notation | |
| | | 1.1—9.2 | Final Exam review or catch up | |
| 17 | 11 Dec | | **Final Exam** Monday 8:00 a.m.—10:00 a.m. | **Final Exam** |

**Class Calendar**
Fall 2024

| Week | Week of | Sections | Topics | Assessments |
|---|---|---|---|---|
| 1 | 26 Aug | 1.1 | Sets of Real Numbers and the Cartesian Coordinate Plane | |
| | | 1.2 | Relations | |
| | | 1.3 | Introduction to Functions | **HW 1** |
| 2 | 2 Sept | 1.4 | Function Notation | |
| | | 1.5 | Function Arithmetic | |
| | | 1.6 | Graphs of Functions | **HW 2** |
| 3 | 9 Sept | | **No class** (Labor Day) | |
| | | 1.7 | Transformations | |
| | | 2.1 | Linear Functions | **HW 3** |
| 4 | 16 Sept | 2.2 | Absolute Value Functions | |
| | | 1.1—2.2 | Exam review or catch up | |
| | | | **Exam Day** (20 Sept) | **Exam 1** |
| 5 | 23 Sept | 2.3 | Quadratic Functions | |
| | | 2.4 | Inequalities with Absolute Value and Quadratic Functions | |
| | | 2.4 | Inequalities with Absolute Value and Quadratic Functions | **HW 4** |
| 6 | 30 Sept | 3.1 | Graphs of Polynomials | |
| | | 3.2 | The Factor Theorem and the Remainder Theorem | |
| | | 3.3 | Real Zeros of Polynomials | **HW 5** |
| 7 | 7 Oct | 4.1 | Introduction to Rational Functions | |
| | | 4.2 | Graphs of Rational Functions | |
| | | 4.3 | Rational Inequalities and Applications | **HW 6** |
| 8 | 14 Oct | 4.3 | Rational Inequalities and Applications | |
| | | 2.3—4.3 | Exam review or catch up | |
| | | | **Exam Day** (18 Oct) | **Exam 2** |
| 9 | 21 Oct | | **No class** (Fall Break) | |
| | | 5.1 | Function Composition | |
| | | 5.2 | Inverse Functions | **HW 7** |
| 10 | 28 Oct | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| | | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| | | 6.2 | Properties of Logarithms | **HW 8** |
| 11 | 4 Nov | 6.2 | Properties of Logarithms | |
| | | 6.3 | Exponential Equations and Inequalities | |
| | | 6.4 | Logarithmic Equations and Inequalities | **HW 9** |
| 12 | 11 Nov | 5.1—6.4 | Exam review or catch up | |
| | | | **Exam Day** (13 Nov) | **Exam 3** |
| | | 6.5 | Applications of Exponential and Logarithmic Functions | |
| 13 | 18 Nov | 6.5 | Applications of Exponential and Logarithmic Functions | |
| | | 8.1 | Systems of Linear Equations: Gaussian Elimination | |
| | | 8.1 | Systems of Linear Equations: Gaussian Elimination | **HW 10** |
| 14 | 25 Nov | 8.2 | Systems of Linear Equations: Augmented Matrices | **HW 11** |
| | | | **No class** (Thanksgiving) | |
| | | | **No class** (Thanksgiving) | |
| 15 | 2 Dec | 9.1 | Sequences | |
| | | 6.5—9.1 | Exam review or catch up | |
| | | | **Exam Day** (6 Dec) | **Exam 4** |
| 16 | 9 Dec | 9.2 | Summation Notation | |
| | | 9.2 | Summation Notation | |
| | | 1.1—9.2 | Final Exam review or catch up | |
| 17 | 16 Dec | | **Final Exam** Monday 8:00 a.m.—10:00 a.m. | **Final Exam** |

**Class Calendar**
Spring 2024

| Week | Week of | Sections | Topics | Assessments |
|---|---|---|---|---|
| 1 | 22 Jan | 1.1 | Sets of Real Numbers and the Cartesian Coordinate Plane | |
| | | 1.2 | Relations | |
| | | 1.3 | Introduction to Functions | **HW 1** |
| 2 | 29 Jan | 1.4 | Function Notation | |
| | | 1.5 | Function Arithmetic | |
| | | 1.6 | Graphs of Functions | **HW 2** |
| 3 | 5 Feb | 1.7 | Transformations | |
| | | 2.1 | Linear Functions | **HW 3** |
| | | 2.2 | Absolute Value Functions | |
| 4 | 12 Feb | 1.1—2.2 | Exam review or catch up | |
| | | | **Exam Day** (14 Feb) | **Exam 1** |
| | | 2.3 | Quadratic Functions | |
| 5 | 19 Feb | 2.4 | Inequalities with Absolute Value and Quadratic Functions | |
| | | 2.4 | Inequalities with Absolute Value and Quadratic Functions | **HW 4** |
| | | 3.1 | Graphs of Polynomials | |
| 6 | 26 Feb | 3.2 | The Factor Theorem and the Remainder Theorem | |
| | | 3.3 | Real Zeros of Polynomials | **HW 5** |
| | | 4.1 | Introduction to Rational Functions | |
| 7 | 4 Mar | 4.2 | Graphs of Rational Functions | |
| | | 4.3 | Rational Inequalities and Applications | **HW 6** |
| | | 4.3 | Rational Inequalities and Applications | |
| 8 | 11 Mar | | **No class** (Spring Break) | |
| | | | **No class** (Spring Break) | |
| | | | **No class** (Spring Break) | |
| 9 | 18 Mar | 2.3—4.3 | Exam review or catch up | |
| | | | **Exam Day** (20 Mar) | **Exam 2** |
| | | 5.1 | Function Composition | |
| 10 | 25 Mar | 5.1 | Function Composition | |
| | | 5.2 | Inverse Functions | |
| | | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| 11 | 1 Apr | 6.1 | Introduction to Exponential and Logarithmic Functions | |
| | | 6.2 | Properties of Logarithms | **HW 7** |
| | | 6.2 | Properties of Logarithms | |
| 12 | 8 Apr | 6.3 | Exponential Equations and Inequalities | |
| | | 6.4 | Logarithmic Equations and Inequalities | **HW 8** |
| | | 5.1—6.4 | Exam review or catch up | |
| 13 | 15 Apr | | **Exam Day** (15 Apr) | **Exam 3** |
| | | 6.5 | Applications of Exponential and Logarithmic Functions | |
| | | 6.5 | Applications of Exponential and Logarithmic Functions | |
| 14 | 22 Apr | 8.1 | Systems of Linear Equations: Gaussian Elimination | |
| | | 8.1 | Systems of Linear Equations: Gaussian Elimination | **HW 9** |
| | | 8.2 | Systems of Linear Equations: Augmented Matrices | **HW 10** |
| 15 | 29 Apr | 6.5—9.1 | Exam review or catch up | |
| | | | **Exam Day** (1 May) | **Exam 4** |
| | | 9.1 | Sequences | |
| 16 | 6 May | 9.2 | Summation Notation | |
| | | 9.2 | Summation Notation | |
| | | 1.1—9.2 | Final Exam review or catch up | |
| 17 | 13 May | | **Final Exam** Monday 8:00 a.m.—10:00 a.m. | **Final Exam** |