

# MA146: Trigonometry

## Fall 2022 Itinerary

### 1 Right Triangle Trigonometry

**Wednesday, August 17 / Friday, August 19 (Week 1)**

We will not have class during the first week of the semester.

**Monday, August 22 (Week 2)**

Sections 1.1 and 1.2: Angles and Trigonometric Functions of an Acute Angle

[WeBWorK: S1.1 and S1.2](#)

**Wednesday, August 24**

Section 1.3: Applications and Solving Right Triangles

[WeBWorK: S1.3](#)

**Friday, August 26**

Section 1.4: Trigonometric Functions of Any Angle

[WeBWorK: S1.4](#)

**Monday, August 29 (Week 3)**

Section 1.5: Rotations and Reflections of Angles

[WeBWorK: S1.5](#)

**Wednesday, August 31**

Exam I Review

**Friday, September 2**

[Exam I](#)

## 2 General Triangles

**Monday, September 5 (Week 4)**

*Labor Day*

**Wednesday, September 7**

Section 2.1: the Law of Sines

WeBWorK: S2.1

**Friday, September 9**

Section 2.2: the Law of Cosines

WeBWorK: S2.2

**Monday, September 12 (Week 5)**

Section 2.4: the Area of a Triangle

WeBWorK: S2.4

**Wednesday, September 14**

Exam II Review

**Friday, September 16**

**Exam II**

## 3 Trigonometric Identities

**Monday, September 19 (Week 6)**

Section 3.1: Basic Trigonometric Identities

WeBWorK: S3.1

**Wednesday, September 21**

Section 3.2: Sum and Difference Formula

WeBWorK: S3.2.1

**Friday, September 23**

Section 3.2: Sum and Difference Formulas

WeBWorK: S3.2.2

**Monday, September 26 (Week 7)**

Section 3.3: Double-Angle and Half-Angle Formulas

[WeBWorK: S3.3.1](#)

**Wednesday, September 28**

Section 3.3: Double-Angle and Half-Angle Formulas

[WeBWorK: S3.3.2](#)

**Friday, September 30**

Chapter 3 Overview: Using and Proving General Trigonometric Identities

[WeBWorK: VTI](#)

**Monday, October 3 (Week 8)**

Exam III Review

**Wednesday, October 5**

[Exam III](#)

**Friday, October 7**

*Fall Break*

## 4 Radian Measure

**Monday, October 10 (Week 9)**

Section 4.1: Radians and Degrees

[WeBWorK: S4.1](#)

**Wednesday, October 12**

Section 4.2: Arc Length

[WeBWorK: S4.2](#)

**Friday, October 14**

Section 4.3: Area of a Sector

[WeBWorK: S4.3](#)

**Monday, October 17 (Week 10)**

Section 4.4: Linear and Angular Speed

[WeBWorK: S4.4](#)

**Wednesday, October 19**

Exam IV Review

**Friday, October 21**

**Exam IV**

## **5 Graphing and Inverse Functions**

**Monday, October 24 (Week 11)**

Section 5.1: Graphing the Trigonometric Functions

[WeBWorK: S5.1](#)

**Wednesday, October 26**

Section 5.2: Properties of Graphs of Trigonometric Functions

[WeBWorK: S5.2](#)

**Friday, October 28**

Section 6.1: Solving Trigonometric Equations

[WeBWorK: S6.1.1](#)

**Monday, October 31 (Week 12)**

Section 6.1: Solving Trigonometric Equations

[WeBWorK: S6.1.2](#)

**Wednesday, November 2**

Section 5.3: Inverse Trigonometric Functions

[WeBWorK: S5.3](#)

**Friday, November 4**

Section 6.4: Polar Coordinates

[WeBWorK: S6.2](#)

## **6 Complex Numbers**

**Monday, November 7 (Week 13)**

Section 6.3: Complex Numbers

[WeBWorK: S6.3](#)

**Wednesday, November 9**

The Polar Form of a Complex Number

WeBWorK: PFCN

**Friday, November 11**

Euler's Formula and DeMoivre's Formula

WeBWorK: EFDF

**Monday, November 14 (Week 14)**

Final Exam Review

**Wednesday, November 16**

Final Exam Review

**Friday, November 18**

Final Exam Review

**Monday, November 21 (Week 15)**

**Final Exam**

**Wednesday, November 23**

*Thanksgiving Break*

**Friday, November 25**

*Thanksgiving Break*

**Monday, November 28 / Wednesday, November 30 / Friday, December 2 (Week 16)**

We will not have class during the sixteenth week of the semester.