UAF DMS Guidelines for
MATH 152X –Trigonometry

Math 152X Syllabus Guidelines
7.5 Graphs of Other Trigonometric Functions 1- 2 days
7.6 Inverse Trigonometric Functions 1- 2 days
 Exam over Chapter 7
8.1 Fundamental Trigonometric Identities 2-3 days
8.2 Sum and difference Identities 1- 2 days
8.3 Product-Sum Identities 1- 2 days
8.4 Trigonometric Equations 2-3 days
 Exam over Chapter 8
9.1 The Law of Sines 1- 2 days
9.2 The Law of Cosines 1- 2 days
9.3 Polar Coordinates and Polar Equations 1- 2 days
9.4 Parametric Equations 1- 2 days
9.5 Trigonometric Form of Complex Numbers 1- 2 days
9.6 Vectors in the Cartesian Plane 1- 2 days
9.7 The Dot Product 1- 2 days
 Exam over Chapter 9
Review Chapters 7-9
Final over Chapters 7-9

6. Types of Assessments
• Homework
– for online work through HAWKES, mastery level should be no less than 75%
– instructors should provide written feedback to students approximately weekly throughout the
semester; this can be through humanly-graded assignments or email correspondence
• Exams

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Math 152X Syllabus Guidelines
▪ find domain and range
▪ find amplitude, phase shift, and period
▪ find intercepts
▪ find asymptotes
x Verify Trigonometric Identities
x Solve Trigonometric Equations
▪ Linear trigonometric equations
▪ Equation involving either quadratic, factoring, or the use of identities
x At least two of the following:
▪ Evaluate inverse trigonometric functions
▪ Evaluate composition of trigonometric and inverse trigonometric function (both orders)
▪ Domain, range, and properties of inverse trigonometric functions
x Polar coordinates
▪ Conversion of points
▪ Conversion of equations
x Applications
▪ Right angle trigonometry (such as angle of elevation/depression)
▪ Laws of Sine and Cosine (such as navigation, bearing)
▪ Arc length and/or area of sector
▪ Linear/angular velocity

8. Grading Policy
• The syllabus must include a grading scale of some form.
• Plus/minus grading is at the discretion of the instructor, but must be stated explicitly.
• Withdrawal and Incomplete policies must be stated explicitly.
• The final grade in this course must adhere to the following:
Written Assessed Work at least 15% and at most 25%
HAWKES (individualized mastery work) at least 10% and at most 20%
Exams at least 40%
Comprehensive Final Exam At least 15%

9. Tutoring Services
DMS Math and Stat Lab: If you need extra math help, there is free tutoring available. The Math and Stat
Lab is located in CHAP 305 and is staffed by Math Graduate students, upper-division Math students and
Math faculty. This lab operates on a walk-in basis and schedules are posted that provide tutor times.
DMS One-on-one Tutoring: Free tutoring by appointment. This service is available to any UAF student
registered in a core MATH/STAT course. Tutoring is available in CHAP 210. Appointments can be made for
30 minutes or an hour and can be scheduled up to two weeks in advance. Students can sign up for an
appointment at https://uaf.traccloud.com
DMS Online Tutoring: Free tutoring available Monday - Saturday! This service is available to any UAF
student registered in a MATH or STAT course. Tutoring is accessible through Zoom. Appointments can be
made for 30 minutes or an hour and can be scheduled up to two weeks in advance. To schedule an
appointment students can sign up for an appointment at https://uaf.traccloud.com
10. Other University
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Math 152X Syllabus Guidelines
Office of Disability Services:
 This office implements the Americans with Disabilities Act (ADA), and insures
that UAF students have equal access to the campus and course materials. I will work with the Office of
Disabilities Services (203 WHIT, 474
-7043) to provide reasonable accommodation to students with
disabilities. Please provide the current accommodation paperwork to me as soon as you receive it.
Without the letter, no accommodations will be made.

Equity and Inclusion Statement: UAF embraces and grows a culture of respect, diversity, inclusion, and
caring. Students at this university are protected against sexual harassment and discrimination (Title IX).
Faculty members are designated as responsible employees which means they are required to report
sexual misconduct. Graduate teaching assistants do not share the same reporting obligations. For more
information on your rights as a student and the resources available to you to resolve problems, please
visit Students Rights and Responsibilities (Links to an external site.).

Coronavirus information:
 Visit the UA coronavirus information website (Links to an external site.) to learn
how the University of Alaska is responding to the novel coronavirus/COVID
-19 situation and find links to
communications, policy guidance, and resources.

Emergency Notification Plan:
 Students will receive emergency notifications via phone email. Please check
your UAOnline account to confirm your emergency notification settings. For more information, please
refer to the Student Handbook. For course
-specific notifications or one that your instructor plans to
forward, you will receive these through Canvas notifications, so please update your profile in Canvas.

Extended absence policy:
 The University of Alaska Fairbanks recognizes that students may need to miss
more classes than allowed by a particular instructor as specified in course policies.
 Extended absences are
defined as missed classes or course work by students beyond what is permissible by the instructor’s