SYLLABUS FOR "[FALL/SPRING]" SEMESTER, 201x

Course Title:	Trigonometry	Instructor:	"[Instructor Name]"
Credit Hours:	3	Office:	"[Office Location]"
Course Number:	! TH "33#$##%	Hours:	"[Office Hours]"
Location and Time	"[Location and Time]"	email:	"[e$mail address]

TEXTBOOK
&recalculus' (irst)dition' *ulie iller and +onna , er-en' c , ra . $Hill /#"0

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Cou . ill need to com1lete t2e ! L) 34 4-ills Test before you . ill be able to . or- on t2e &at2 &roblems and t2e Home . or- &roblems in ! L) 34<

CALCULATOR
Cou will need to own or have access to a scientific calculator that has the trigonometric function keys. A graphing calculator is helpful, but not required. Cell phones, smart phones, and graphing calculators are not allowed during quizzes and exams.

CATALOG !ESCRIPTION
T2is course . ill co;er t2e deDnitions and gra12s of trigonometric functions and t2eir in;erses' sol;ing trigonometric eEuations' a11lications and to1ics in analytic geometry<

PR R ! "#$#% $
T2e 1rereEuisite for t2is course is a grade of C$ in College ! lgebra = ! TH$"3/#><

&lease announce t2e 1rereEuisite during t2e first class or t . o< 4tudents . 2o do not satisfy t2e 1rereEuisites s2ould see t2eir ad;isors< ?emo;e t2is before 1osting your syllabus<

NOTE" No 1rior -no . ledge of trigonometry is to be assumed<
No credit if ! TH"39# is 1assed<

41ring /#"0

LEARNING OB#ECTI$ES

T2e obFecti;e of t2is course is to de;elo1 your mat2ematical s-ills' . it2 em12asis on 1roblems reEuiring t2e use of trigonometric functions< ! more detailed list of learning obFecti;es is gi;en belo . < ! t least 0#G of t2e course time . ill be de;oted to t2ese essential outcomes< T2ese obFecti;es are listed again in t2e c2ronological list of to1ics at t2e end of t2is syllabus<

- : , ra12ical' algebraic' numerical' and ;erbal re1resentation of trigonometric and in;erse trigonometric functions ;erbally' numerically' gra12ically and algebraically<
- : +efine t2e si% trigonometric functions in terms of rig2t triangles and t2e unit circle<
- : +etermine . 2et2er a trigonometric relation or gi;en gra12 re1resents a functionH 1erform transformations on gra12s and o1erations . it2 functionsH determine interce1ts' domain' range' inter;als of monotonicity' ;erte% of a Euadratic' asym1totes' symmetryH and matc2 gra12s to trigonometric definitions<
- : I se trigonometric and in;erse functions to model a ;ariety of real$. orld 1roblem$ sol;ing a11lications<
- : 4ol;e a ;ariety of trigonometric and in;erse trigonometric eEuations' in degrees and radians for bot2 s1ecial and non$s1ecial anglesH sol;e a11lication 1roblems t2at in;ol;e suc2 eEuations<
- :)%1ress angles in bot2 degree and radian measure< 4ol;e rig2t and obliEue triangles in degrees and radians for bot2 s1ecial and non$s1ecial angles' and sol;e a11lication 1roblems t2at in;ol;e rig2t and obliEue triangles<
- : Berify trigonometric identities by algebraically mani1ulating trigonometric e%1ressions using fundamental trigonometric identities' including t2e &yt2agorean' sum and difference of angles' double$angle and 2alf$angle identities<
- : ?e1resent ;ectors gra12ically in bot2 rectangular and 1olar coordinates and understand t2e conce1tual and notational difference bet . een a ;ector and a 1oint in t2e 1laneH 1erform basic ;ector o1erations bot2 gra12ically and algebraicallyH sol;e a11lication 1roblems using ;ectors<

RESOURCES

4tudents s2ould be made a . are of t2e tutoring 2el1 t2e I ni;ersity 1ro;ides< at2ematics tutoring is 1ro;ided by t2e at2ematics Learning and ?esource Center t2at is located in t2e basement of Carlson Library $ 12one e%t< /"08< It o1erates on a . al-$in basis< T2e L)C Tutoring Hours can be found at 2tt1:@@mat2<utoledo<edu@mlrc@ L?C<1df<

ASSESSMENT OF STU!ENT LEARNING

! ssessment . ill be based on a combination of homework, quizzes, midterms and a final exam. &ou will need to demonstrate the ability to apply mathematical reasoning and skills to solve problems in all the outcome areas listed above using correct mathematical notation.

E$ALUATION

T2e e;aluation for t2is course . ill be based u1on a 1ercentage of t2e total of 2ome . or-' test and final e%am scores:

"< JuiKKes and 2ome . or- =Insert min 1ercent> to =Insert ma% 1ercent>G
/< idterms =Insert min 1ercent> to =Insert ma% 1ercent>G
3< (inal)%am =com1re2ensi;e> =Insert min 1ercent> to =Insert ma% 1ercent> '
9< %otal ()) '

, rades are based on the following percentages of total points*

( )) ' + ,) '	A
- , ' + -) '	.
/ , ' + /) '	C
1 , ' + 1) '	2
. elow 1) '	3

0luses and minuses will be used using the policy of the "niversity.

RESPONSIBILITIES OF THE STU ! ENT

Cou are expected to attend each class session. #f you attend class, it is assumed that you will

STU ! ENT PRI $ ACY

(ederal la . and uni;ersity 1olicy 1ro2ibits instructors from discussing a student's grades or class 1erformance . it2 anyone outside of uni;ersity faculty@staff . it2out t2e student's . ritten and signed consent< T2is includes 1arents and s1ouses< (or details' see t2e “Confidentiality of student records =( ) ?& ! >” section of t2e I ni;ersity &olicy &age at 2tt1:@@ . . . <utoledo<edu@1olicies@academic@undergraduate@inde%<2tml

TOPICS TO BE CO$ERE!"
