

Course Number

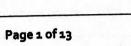
MATH 111b

UNIVERSITY OF SOUTHERN MINDANAO



Ø

Rev. No.





EFFECTIVE DATE	REV. NO.	REVISION TYPE	CHANGE L TSC NPTION	PAGE AFFECTED	ORIGINATOR
August 28, 2020	Ø	New	Newly established Calculus 1 syllabus for BS Applied N. Viematics program. Flexible mode of instruction is adapted.	ALL	Philip Lester P Benjamin
			ELECTRONICALLY RELEASED		
			2025.07.09		
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Author:	Reviewer:	Verifier:	Validator:	Final Approver:	DCC US	SE ONLY
	\				DOCUMENT COI	NTROL INDICATOR
PHILIP LESTER P. BENJAMIN, PhD Course Developer	JUPITER G. PILONGO, MS Subject Expert	ROWEL P. MADIO, MST Math & Stat Faculty	JONALD L. PIMENTEL, PhD CSM Dean	CONSUELO A. PAGARO, EdD Vice President for Academic Affaire	MASTER	COPY
Date: 20% 67.21	Date: 2070. 07. 23	Date: (2070. 07. 28	Date: 2020. 03-04	Date: 2020 . 08 .11	2020.04 10	





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	INSTITUTIONAL POLICIES
Vision	Quality and relevant education for its clientele to be globally competitive, culture se sitive and morally responsive human resources for sustainable development.
Mission	Help accelerate socio-economic development ^{M2} , promote harmony among the diverse structures and improve quality of life ^{M3} through instruction, research, extension and resource generation in Southern Philippines.
Core Values	G-Goodness, R-Responsiveness, E-Excellence, A-Assertion of Right and T-Truth
USM Quality Policy Statement	The University of Southern Mindanao, as a premier university, is committed to be vide quality instruction, research development and extension services and resource generation that exceed stakeholders' expectations through the management of continual improvement efforts on the following initiatives. 1. Establish key result areas and performance indicators across all lends ted functions; 2. Implement quality educational programs; 3. Guarantee competent educational service providers; 4. Spearhead need-based research outputs for commercial tion, publication, patenting, and develop technologies for food security, climate change mitigation and improvement in the quality of life; 5. Facilitate transfer of technologies generated from more to to the community for sustainable development; 6. Strengthen relationship with stakeholders; 7. Sustain good governance and culture, sensitively and statutory and
ioals of the ollege	1. The College of Science and Mathematics of the University of Southern Mindanao is committed to the comprehensive preparation of the next generation of scientists and mathematicians in this part of the country. 2. The College supplies a condition in which face by can advance and support high-quality research programs in which students can collaborate and contribute to new knowledge that improves quality of life. 3. The College aspires to be the center of a selic ce in Science and Mathematics in order to serve diverse students, preparing them for their future careers in line with the vision and mission of the University. 4. The College serves the community and the industry as an impartial source of quality graduates in Science and Mathematics that provides education, literacy, innovation and solution generation to challenges.
iectives	The Department of Mathematics and Statistics aims to: 1. produce students with mastery in the core areas of mathematics and statistics, including algebra, analysis, and geometry; 2. develop students' skills in pattern recognition, generalization, abstraction, critical analysis, synthesis, problem-solving and rigorous argument; 3. express and analysis and the vitality and importance of mathematics in the modern world including inter-relationships within math and its connection to other disciplines; and the develop students' skills in creating and evaluating mathematical conjectures and arguments, and in validating their own mathematical thinking.





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Degree Program		PROGRAM INFORMA	TION N		4 2 2 3	
Program	Bachelor of Science in Applied Mathematics		CHED CMO Reference	48 Series of 2017	BOR Approval	BOR Resolution no.

			OUI SE DETAILS		
Course Title	Calculus 1				
Course Number	MATH 111b		Curriculum Component	(Curriculum Element C)	
Credit (Unit)	4 Units	LECTURE (Unit-Hours)	4 Units - 4 Hours		
Prerequisites	None	Co-requisites	None	LABORATORY (Unit-Hours)	o Units - o Hours
Course Description	This is a first course in (Calculus, It covers limits the try de	divatives of almobrate and the	Year Level/Semester Offered dental functions (exponential, logarith	1st Year - First Semester mic, trigonometric, hyperbolic ar
Faculty in charge	,	ions of derivatives, differentials; antide	rivatives, definite integrals, Fundan	nental Theorem of Calculus, and appli	cations of definite integrals.
onsultation Hours			Contact Information		

In 3-5 ye	Equip with technical, conceptual and human resource skills Pursue entrepreneurial activities Able to adapt to diverse culture	e de la companya de	MISSION	
		M1	M ₂	M ₃
PEO 2	Equip with technical, conceptual and human resource skills	1	1	
PEO 3	Pursue entrepreneurial activities	1	16.00	1
EO 4		1		1
EO 5	Pursue advanced studies in emerging related fields		1	
OTE: The	PEO's are based on the professional, industry, local, national and international needs and requirements of the program identified through computer in	A4	1	1

THO FE. THE FEO'S are based on the projessional, maustry, local, national and international needs and requirements of the program identified through consultation with constituents and stakeholders.





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PROGRAM OUTCOMES (PO) pon graduation, the University of Southern Mindanao BSAM students must be able to:	PEO1	PE02	PE03	PEO4	PEO5)E06)E07	PEO8	PEO10	
Articulate and discuss the latest development in the specific field of practice.									-	
Effectively communicate orally and in writing using both English and Filipino		1			13.5					
Work effectively and independently in writing using both English and Filipino		1			1					
Work effectively and independently in multidisciplinary and multi-cultural teams			1	1	1	p. 100-200	500 A 10 B	0.00	Per William	
Act in recognition of professional, social and ethical responsibility	1								. 1	
Preserve and promote "Filipino historical and cultural heritage"				1						T
Participate in the generation of new knowledge in research and development projects.		1	S. Same		e suerie					-57
Demonstrate broad and coherent knowledge and undestanding in the convaries of physical and natural sciences.		1								
Apply Critical and problem solving skills using the scientific method.	1 126	1			Para Sea	, 040 je 6	300.000			
Interpret relevant scientific data and make judgements that include reflection on relevant scientific and ethical issues.	1	1	13.70	1	1					
Carry out basic mathematical and statistical computations and the appropriate technologies in the analysis of data		1			1		Annual Control			-
Communicate morniation, ideas, problems, and solutions, both or making to other scientists, decision makers, and the public	1	1	1	1				a de	100	
Relate science and mathematics to the other disciplines.	4 10 100	100		4	1		Sec. 2	and a		
Design and perform safe and responsible techniques and produce sin laboratory or field practices.			-	+	•					
Critically evaluate input from others.		1		1						
Appreciate the limitations and implications of science in veryday life.		1		~						
Commit to the integrity of data.		1								
Gain mastery in the cores areas of mathematics: an obra analysis, and geometry.	9	1		1	1				1.1	
Demonstrate skills in pattern recognition, generalization, abstraction, critical analysis, synthesis, problem-solving and rigorous argument.		1			1					
Develop an enhanced percention of the vitality and importance of moth continuing and rigorous argument.		1								
Develop an enhanced perception of the vitality and importance of mathematics in the modern world including inter-relationships within math and the connection to other disciplines.		1		1						
Appreciate the concept and role of proof and reasoning and demonstrate knowledge in reading and writing mathematical proofs.	-	1			1					
riake and evaluate mathematical conjectures and arguments and validate their own mathematical thinking		1			11,024	-				1000
ommunicate mathematical ideas orally and in writing using clear and precise language. Ainimum PO's shall come from the PSG/CMO of the program if applicable. Other additional PO's may come from consultations with constituents and stakeholders.	1				1					100





		U	NIVERSITY OF SOUTHE	RN MINDANAO			
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	COURSE OUTCOMES (CO)	Poa 4	2 2	2 2	POe	Po	Pog .	و ا	2 2	Z Š	PO	POm S	5 8	Pop	Po	ğ	Š	0	PO	POw	Š	P02
Upon	passing this course, the students must be able to: Course Alignment to Program Outcomes	1				1		1			1										100	
CO 1	Evaluate the limit of a function using the limit theorems.	1				1		1			1						190					
CO 2	Define continuity at a point and on an interval.	ı				1		1				+					+					
CO 3	Distinguish between continuous and discontinuous functions.		1			1		1												H		+
CO 4	Use the definition to get the derivative of a function.	1	1			$\dot{\parallel}$	1	1	+		i							+			-	+
05	Apply the differentiation rules on various types of functions.					+	1	1	+					-				+	+			
0 6	Apply the derivative tests to find the maxima/minima of a function graph functions and solve optimization problems.														-		1					
07					500	+				+				+	-							+
8 03						+				+					er.			+	-		_	



[[]i] = Introductory. This introduces the student to the Program Outcome (PO).

[[]E] = Enabling. This enables the student to attain the Program Outcome

[[]D] = Demonstrative. This demonstrates the student's attainment of the Program Outcome (PO)



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Intended Learning Outcomes (ILO	Aligned	Time	COURSE	LEARN'NG V.N				
by the end of the learning experience*, students must be able to:	to CO:	Frame (Week)	Course Content (<i>Topics</i>)	Taching (earning Activities TLA) Learning	Learning Materials	Assessment Tasks (AT)	Suggested Readings
 Explain the vision, mission, UQPS of the University Explain the goals and objectives of the college. Explain the Program Educational Objectives, Students Outcomes, and Course Outcomes. 		1	Orientation on Classroom and University Policies as well as Grading System • Discussion on PEO 30 and CO	Activities Jentation Lecture/Discussion	Activities Reading; Assignment	Computer; Chalkboard	Recitation	[1]
1.2 Use functional notation to valuate a function. 1.2 Determine the domain and range f a function. 1.3 Draw the graph of a function. 1.4 Find the zeros of a function. 1.5 Recognize a function from a table values. 1.6 Make new functions from two or or or given functions. 1.7 Describe the symmetry properties function.	CO ₁	1-2	Review of Functions Set but der or interval nutation Evaluating functions Domain and range Vertical line test Zeroes and y-intercepts Increasing and decreasing functions Operations on functions	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]
Describe the tangent problem and it led to the idea of a derivative. Explain how the idea of a limit is ved in solving the tangent fem. Recognize a tangent to a curve at it as the limit of secant lines. dentify instantaneous velocity as	CO1	3 F	Preview of Calculus The tangent problem and the differential calculus The area problem and integral calculus	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6]

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the limit of average velo small time interval. 2.1.5 Describe the area p how it was solved by the 2.1.6 Explain how the ide involved in solving the ar 2.2.1 Using correct notation. 2.2.2 Use a table of value the limit of a function or twhen the limit does not exist. 2.2.3 Use a graph to estimof a function or to identify limit does not exist. 2.2.4 Define one-sided limit does not exist. 2.2.5 Explain the relations one-sided and two-sided limit does not exist. 2.2.6 Using correct notation infinite limit. 2.2.7 Define a vertical asym	problem and integral. Para of a limit is pea problem. Ion, describe so identify the state the limit of when the mits and thip between limits. Para of the scribe integral on, describe inptote.	CO1		The Limit Function Intuitive definition a limit Evaluating limit us as table and graph. Some the cons on limits The existence or limit One-sided beits Infinite Limits Vartice asymptote	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]	
.3.1 Recognize the basic li .3.2 Use the limit laws to e mit of a function. 3.3 Evaluate the limit of a ctoring. 3.4 Use the limit laws to e nit of a polynomial or ratio nction. .5 Evaluate the limit of a toring or by using conjug. 6 Evaluate the limit of a ing the squeeze theorem.	function by valuate the onal function by attes.	201	5-7 Th	 Limit Laws Evaluating limits with the limit laws Limits of Polynomials and rational functions Additional Limit Evaluation Techniques The squeeze theorem 	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]	





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 2.4.1 Explain the three conditions for continuity at a point. 2.4.2 Describe three kinds of discontinuities. 2.4.3 Define continuity on an interval. 2.4.4 State the theorem for limits of composite functions. 2.4.5 Provide an example of the intermediate value theorem. 	CO ₂ CO ₃	8	Continuity Continuity at a point Types of Discontinuities Continuity over an interval The Intermediate Vale Theorem	Lec re/ Vider Present don Zoon, 14 conference IV. Le	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Exams	[2] [3] [4] [5] [6] [7] [8]
3.1.1 Recognize the meaning of the tangent to a curve at a point. 3.1.2 Calculate the slope of a tangent line. 3.1.3 Identify the derivative as the limit of a difference quotient. 3.1.4 Calculate the derivative of a given function at a point. 3.1.7 Estimate the derivative from a table of values.	CO4	9	Defining the derivative ■ The tangent line ■ The Derivative of a Function of a Point ■ Derivative from a table of values.	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]
All ILOs covered in Midterm	3	1.0		Week	10: MIDTERM EXA	MINATION		
3.2.1 Define the derivative function of a given function. 3.2.2 Graph a derivative function from the graph of a given function. 3.2.3 State the connection between derivatives and continuity. 3.2.4 Describe three conditions for when a function does not have a derivative.	CO4	11-12	The Perivative as a Function Derivative Functions Graphing a Derivative Derivatives and Continuity	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]
3.3.1 State the constant, constant multiple, and power rules. 3.3.2 Apply the sum and difference rules to combine derivatives. 3.3.3 Use the product rule for	CO ₅		The Basic Rules The Power Rule The Sum, Difference, and Constant Multiple Rules	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook	Quizzes Exams Seatworks Reports/ Reflective paper	[2] [3] [4] [5] [6]





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Course	e Number	MATH	111b	Course Title		Calculus 1			Rev. No.	Ø	Page 9 of 13
finding the derivative of a poffunctions. 3.3.4 Use the quotient rule of finding the derivative of a quotient of functions. 3.3.5 Extend the power rule functions with negative expg. 3.3.6 Combine the different rules to find the derivative opolynomial or rational functions.	for juotient to conents. ciation of a			The Product Rule The Quotient Rule Combining Differentiation Rules			Projector Laptop/PC	USM VLE	Exercises	[7] [8]	
3.5.1 Find the derivatives of the and cosine function. 3.5.2 Find the derivatives of the standard trigonometric functio	e ons.	CO ₅	13	Derivatives of Trigrametric Functions Derivatives of the Sine and Cosma Functions Derivatives of Other Trigonor Jetric Functions	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC		rks	[2] [3] [4] [5] [6] [7] [8]	
3.6.1 State the chain rule for the composition of two functions. 3.6.2 Apply the chain rule toget the power rule. 3.6.3 Apply the chain rule and the conduct/quotient rules correctly combination when both are necessary. 3.6.4 Recognize the chain rule for composition of three or more functions.	her with ne in	CO5	15	The ham Rule The Chain and Power Rules Combined Combining the Chain Rule with Other Rules Composites of Three or More Functions	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC		rks	[2] [3] [4] [5] [6] [7] [8]	





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3.7.1 Calculate the derivative of an inverse function. 3.7.2 Recognize the derivatives of the standard inverse trigonometric functions.	CO ₅		 The Derivative of an Inverse Function Derivative of an Inverse Function Derivatives of Inverse Trigonometric Functions 	Lectore/ Video Tresen, ston Zoom der onference Michael	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]
3.8.1 Find the derivative of a complicated function by using implicit differentiation. 3.8.2 Use implicit differentiation to determine the equation of a tangent line.	CO ₅		 Derivative of a function of using implicit differentiation. Finding Tangent Lines implicitly 	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7]
3.9.1 Find the derivative of exponential functions. 3.9.2 Find the derivative of logarithmic functions. 3.9.3 Use logarithmic differentiation to determine the derivative of a function.	CO5		Derivatives or exponential and Logar hmic Functions Derivative of the exponential Function Derivative of logarithmic functions. Logarithmic Differentiation	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]
4.1.1 Express changing quantities in terms of derivatives. 4.1.2 Find relationships among the derivatives in a given problem. 4.1.3 Use the chain rule to find the rate of change of one quantity that depends on the rate of change of other quantities.	CO6	17	Applications of Derivatives Related rates: Setting up Related-Rates Problems Maxima and Minima Absolute Extrema Local Extrema and Critical	Lecture/ Video Presentation Zoom video conference Module	Discussion Board work Seat work Group Reporting USM VLE/ MyOpenMath Tasks	Chalkboard/ Whiteboard Book PDF Workbook Projector Laptop/PC	Quizzes Exams Seatworks Reports/ Reflective paper USM VLE Exercises	[2] [3] [4] [5] [6] [7] [8]





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4.2.1 Define absolute extrema. 4.2.2 Define local extrema. 4.2.3 Explain how to find the critical points of a function over a closed interval. 4.2.4 Describe how to use critical points to locate absolute extrema over a closed interval.		Points • Locating Absolute Extrema								
All ILOs covered in the Course	2 18		FINAL EXAMINATION							

extbook/References

[1] USM Student Manual

- [2] Anton, H., Bivens, I.C., and Davis, S., Calculus Early Transcendentals, 10th Miley, 2011.
- [3] Anton, H., Bivens, I.C., and Davis, S., Calculus, 10th Edition, Wiley, 2 12.
- [4] Edwards, Jr, C.H. and Penney, E., Calculus, Early Transcendentals. 7 Edition, Prentice Hall, 2007.
- [5] Etgen, G., S. Salas and E. Hille, Calculus: One and Several Variables, A" Ed., John Wiley and Sons, Inc., 2003.
- [6] Leithold, Louis, The Calculus 7, Harper Collins, 1996.
- [7] Stewart, J., Calculus: Early Transcendentals, 7th Edition, Brook (Cole, 2011.
- [8] Thomas, G.B., Wier, M.D. and Hass, J.L., Thomas' Calculated Edition, Pearson, 2009.

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^{*} any interaction, course, program, or other experience in which learning takes place (http://w.w.edglossary.org/learning-experience/).



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	Course Evaluation				
Course Outcomes (CO)	Assessment Task Add Assin O	Weight (%)	Satisfactory Rating	Target Standard	
CO 1: Evaluate the limit of a few vi	Quizzes/Summative Exams	60			
CO 1: Evaluate the limit of a function using the limit theorems.	Major Exam	40	60	75% of the class obtained a satisfactory rating	
CO 2: Define continuity at a point and on an interval.	Quizzes/Summative Exams	60			
	Major Exam	40	60	75% of the class obtained a satisfactory rating	
CO 3: Distinguish between continuous and discontinuous functions.	Quizzes/Summa ve Exa 1s	60			
[18] [18] [18] [18] [18] [18] [18] [18]	Major Exam	40	60	75% of the class obtained a satisfactor rating	
O 4: Use the definition to get the derivative of a function.	Quizzes/Sun. ative Exams	60		75% of the class obtained a satisfactor	
	Major	40	60	rating	
O 5: Apply the differentiation rules on various types of functions.	Quizzes/Su. mative Exams	60		75% of the class obtained a satisfactor	
O 6: Apply the derivative tests to find the maxima/minima of a	Major 'am	40	60	rating	
function, graph functions and the maxima/minima of a	mmative Exams	60		75% of the class obtained a satisfactor	
function, graph functions and solve optimization problems.	Maj Exam	40	60	rating	
0 7:	Quezes/Summative Exams	60		75% of the class obtained a satisfactor	
	or Exam	40	60	rating	
O 8:	Quizzes/Summative Exams	60		75% of the class obtained a satisfactory	
	Major Exam	40	60	rating	

Midterm Grade

Quizzes/USM VLE Exercises/Summative Exams-----6c Midterm Exam/USM VLE Exam-------------------------40%

Final Grade

50% Midterm Grade+50% Final Term Grade

Grading System

Final Term Grade

Quizzes/USM VLE Exercises/Summative Exams-----60% Midterm Exam/USM VLE Exam------ 40%

Passing Grade

60%

Classroom Policies





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1. Come to class prepared for recitation, class discussions, or unannounced quizzes at all times. De nons rate personal responsibility by obtaining notes and finding out any instructions/impacts. instructions/important announcements given on the class period missed.

2. Absence is not a right, nor a privilege. The University Code on absence and tardiness applies. Sen (i) absences gets a final grade of 5.0. Twice late is equivalent to one absence. Absences can be excused only after presenting official documents.

3. All submissions must be your original work. Cite sources properly. Plagiarism and any form of ademic cheating get a corresponding grade of 5.0 and can be grounds for suspension or expulsion.

4. Keep all distractions away. This includes electronic gadgets and homework assignment times. Presentation notes will be provided. of cellphones during class without permission of the instructor is prohibited at all

5. Take a minute to tidy up. Make it a habit to leave the classroom better than whe vocantered. Keep chairs arranged before and after group activities. Observe a clean and orderly

