	Syllabus for MATH 216		
	Calculus for Biological Sciences, Spring 2016		
	UMKC Department of Mathematics and Statistics	5	
Content Area	Notes Referer	ence	
Instructor Information			
Department	Mathematics and Statistics		
Name	Majid Bani-Yaghoub	http://b.web.umkc.edu/baniya ghoubm/	
Contact Information	Email: baniyaghoubm@umkc.edu Tel: (816) 235- 2845 (I prefer e-mail)	<u>baniyaghoubm@umkc.edu</u>	
Class Meeting Time/Place	Tuesday, Thursday 2:00PM - 3:40PM Katz Hall, Room 11		
Semester Offered	Spring 2016		
Instructor Office Hours and Office Location	Tuesday, Thursday 1:00PM - 2:00PM or by appointment. Office Location: Manheim 205 A		
Catalog Information			
Subject/Curricular Designation	Mathematics	www.umkc.edu/catalog	
Catalog Number	Math 216	www.umkc.edu/catalog	
Course Title	Calculus for Biological Sciences	www.umkc.edu/catalog	
Course Description	Introductory calculus designed for students in health and biological sciences. Topics include functions, limits and continuity, trigonometric functions, differentiation and its applications, integration, mathematical modeling, and discrete dynamical systems. Group projects are an integral part of this course. Credit will not be given for both MATH 216 and MATH 210. Extended Description: This course will introduce students to the fundamentals of differential and integral calculus as well as discrete modeling techniques in the context of the biological sciences. The successful student will develop a thorough understanding of single- variable calculus, will appreciate the utility of calculus as a tool to analyze functions that naturally arise in the study of biological systems, and will be able to place these systems in the framework of mathematical models. This course covers most of the material included in a traditional calculus I course (Math 210). The main difference is the modeling projects, group works and hands-on-practice. These items will help the students apply mathematics in biological sciences.	www.umkc.edu/catalog	

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Credit Hours	4 credit hours	www.umkc.edu/catalog
Prerequisites/Co-Requisites	Four units of high school mathematics including trigonometry, or Math	www.umkc.edu/catalog
	120, or Math 110 and math 125, or Math 202	-
Restrictions/Exclusions	None	
Course Component (format)	Lecture	
Course Instructional Mode	P (classroom based)	
Course Information		
Required and Recommended	1 Required Textbook: Modeling the dynamics of life: Calculus and	
Matorials	probability for life scientists, 3rd edition, by Adler, 2012	
	2 Calculator: A granning calculator such as Casio EX 9750G TL83/84 or	
	TL-83/84 Plus is required for this class	
	Calculator Policy:	
	1 Please bring your calculator to class every day. It is needed for class	
	activities and modeling projects.	
	2. Calculators will be allowed on exams, but ALL memory must be reset	
	and cleared.	
	3. Sharing calculators on exams or guizzes is not allowed.	
	4. Please do not have notes, formulas, applications or programs in your	
	calculator or on its cover. These are considered cheating and will be	
	reported to the Aggie Honor Council.	
Course Webpage and	Important dates, Syllabus and the link to student resources can be found	
Resources	at http://b.web.umkc.edu/baniyaghoubm/math216s16.htm	
	Also, the following webpage is designed for UMKC students enrolled in	
	Math 210 and Math 216. You may find YouTube videos of the lectures	
	by Dr. Delaware, Copy of past Final Exams and the Tutoring Information	
	http://roocal.wordpress.com/	
Evaluation and Grading	Group Work 10 % A = 93-100, A – = 90-92.9	
Criteria	2 Modeling projects 20 % B + = 86.6-89.9, B = 83-86.5	
	2 Midterm exams 30 % B – = 80-82.9, C + = 7679.9	
	Homework 15 % C = 73-75.9, C – = 70-72.9	
	Final Exam <u>25 %</u> D + = 66-69.9, D = 63-65.9	
	Total 100 % D – = 60-62.9, F = 0-59.9	

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Assignments, Projects	Homework: I will give homework on most Tuesdays during the	
Assignment deadlines, Group	semester. Homework includes modeling exercises, solving partial	
Work	differential equations, and numerical explorations. Late homework will	
	be marked down by 20%. Homework will not be accepted more than a	https://blackboard.umkc.
	week late.	edu/webapps/portal/fram
		eset.jsp
	Modeling Projects: The guidelines and description of 2 different	
	projects will be available in the Blackboard. Each group will have a	
	project leader for a period of time and the leadership is permuted	http://b.web.umkc.edu/ba
	among the team members	niyaghoubm/math216f13
		.htm
	The projects are due Eeb. 18. & Apr. 7	
		http://roocal.wordpress.c
	Exams: There will be two midterm exams (Mar. 1 and Mar. 24.) during	<u>om</u>
	the class hours. The final exam (May 12, 10:30 AM) will be	
	comprehensive. All evams are closed-book evams	
	Group Work: You will be required to form groups of 2 or 3 students and	
	solve the problems sets given in the last 15 minutes of the class. You	
	may hand in your group work at the end of the class period or at the	
	beginning next class meeting.	
Collegiality and Group Work	The groups in this class are meant to imitate real-world research groups.	
for Modeling Projects	Each group should meet once a week. Each group member should	
0,	(1) maintain a friendly environment for the entire group:	
	(2) facilitate collaboration and problem solving:	
	(3) provide a vision of the main objectives and ensure	
	discussions lead to conclusions and decisions:	
	(4) motivate and inspire other group members:	
	(5) contribute to the group by sharing his/her knowledge	
	expertise and viewpoints:	
	(6) participate in all moetings and discussions:	
	(7) have productive suggestions	
	(7) have productive suggestions.	

Instructions for preparing and	The oucomes of each modeling project should be prepared in the form	
presenting your modeling	of PowerPoint slides as follows.	
projects		
projects	 (a) Each team is required to prepare 5-15 PowerPoint slides. (b) The contents of the slides should answer all questions asked in the project. You should also include a short Introduction, Main Objectives, Method, Results, Concluding Remarks, and Limitations. (c) The first slide must contain the name and student ID of each participant. Also include the specific works (e.g preparing slides, computing, editing and revising) done by each participant. (d) All figures and tables must have labels and captions. (e) Supplementary slides (e.g., further explanations and references) should be included in the same file after the presentation slides. (f) Please send your presentation to baniyaghoubm@umkc.edu before 1:00 PM of the due date. (g) Also a print of the file should be given to me on the due date. 	
	Furthermore, the PowerPoint slides will be posted at MOspace (the digital institutional repository of the University of Missouri System) and it will be freely available to all researchers interested in mathematical biology	
Schedule of Course Topics	It is planned to cover the first four chapters the textbook. Also there will	
Covered, (Important Note: Subject to change)	be supplementary topics on derivatives and integrals to be covered during the semester. Note that all supplementary course materials will be posted in the Blackboard. Below is a rough outline the topics and the anticipated schedule.	
	The course schedule is subject to change.	
Week # 1	Sections 1.1-1.3 Variables, parameters, and functions in biological systems. Function composition, scaling, and shifting. Unit conversion. Linear functions. Inverse functions.	
Week # 2	Sections 1.4-1.7 Inverse trigonometric functions, Discrete-time dynamical systems. Exponential growth. Laws of exponents and logarithms. Oscillatory behavior in biological systems	
Week # 3	Sections 1.8, 1.9 Oscillations and Trigonometry, A Model of Gas Exchange in the Lung.	
Week # 4	Sections 2.1-2.6 Rates of change. Limits and continuity of functions, Definition of derivative.	
Weeks # 5	Project 1 (Due Feb. 18); Supplementary Material, Differentiability of functions, Derivatives of sums, powers, and polynomials. Derivatives of products and quotients	
Week # 6	Sections 2.7-2.9, The Second Derivative. Curvature. and Acceleration, Derivatives of Exponential and Logarithmic Functions, The Chain Rule, Review for midterm Exam 1	

Supplementary Material, Derivatives of Trigonometric Functions, Supplemental material on Derivatives of inverse trigonometric Functions, Related rates, Implicit differentiation Midterm Exam 1 (Mar. 1)	
Section 3.3, Applications of derivatives Optimization, Dynamical Systems, Applications of derivatives in biology	
Sections 3.1, 3.2 & 3.4 Population modeling using dynamical systems. Stability in dynamical systems, Reasoning About Functions, Review for midterm Exam	
Midterm Exam (Mar. 24); Sections 3.5 & 3.6 Intermediate value theorem. Extreme value theorem. Rolle's theorem. Mean value theorem. Limits at infinity. Leading behavior. L'Hopital's rule.	
Spring Break No Classes	
Sections 4.2 & 4.3 Antiderivatives. Sigma notation, definite integral. Areas as limits. Project 2 (Due Apr. 7)	
Sections 4.2 & 4.3, Supplemental material Supplemental material on Integration by substitution	
Sections 4.4 & 4.5 Fundamental Theorem of Calculus.	
Sections 4.6 & 4.7, Review for Final Exam; Applications of integrals – area, averages, volumes, mass, length of a curve. May 5 is the reading day. Final Exam: Thursday, May 12, 10:30 am-12:30 pm	
Math 216 is a Focus B course. Scientific Reasoning & Quantitative	
Analysis: Students will apply principles and methods of science, math, statistics and logic to solve problems and draw logical inferences. They will develop a level of quantitative literacy that enables them to comprehend and evaluate information in a broad range of contexts. Students will understand methods and principles of scientific discovery and their application to all areas of learning, including the natural and social sciences.	
Compute limits using L'Hôpital's rule, apply various derivative rules and techniques including product rule, power rule, quotient rule, and chain rule; Compute linear approximations of single variable functions and analyze simple discrete population models using linear stability and graphing methods; Provide a few examples related to the outcomes of the discrete dynamical systems in biology, describe and analyze various functions by determining the relative and absolute extrema, inflection points, intervals of increase and decrease; Compute various definite and indefinite integrals, have a clear understanding of the Fundamental Theorem of Calculus, and know the definition of area as a limit and be familiar with the sigma notation; Compute the average value of a function, the area between two curves	
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Course Expectations, Course Policies, Requirements and Standards for Student Coursework and Student Behavior	As a student enrolled in this course, it is expected that you will: • Attend class, participate in class discussions, and ask questions • Familiarize yourself with sections of the textbook prior to their coverage in lectures • Complete all assigned work neatly, thoroughly, and on-time • Work enough additional problems to ensure comprehension of course material • Seek assistance from instructor during office hours when difficulties arise	
Resources & Policy Statement	s	
Academic Calendar	Students are encouraged to review important add, drop or withdraw dates:	http://www.umkc.edu/r egist rar/acal.asp
Academic Honesty	The Board of Curators of the University of Missouri recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. Academic dishonesty, including cheating, plagiarism or sabotage, is adjudicated through the <u>University of Missouri Student Conduct Code</u> and <u>Rules of</u> <u>Procedures in Student Conduct Matters</u> . Academic units may have additional student codes of behavior to be referenced.	School of Pharmacy Hon or Codes School of Medicine Hono I Codes School of Dentistry Hono I Codes School of Nursing Honor Codes School of Law Honor Cod es
Academic Inquiry, Course Discussion and Privacy	University of Missouri System Executive Order No. 38 lays out principles regarding the sanctity of classroom discussions at the university. The policy is described fully in Section 200.015 of the Collected Rules and Regulations. In this class, students may make audio or video recordings of course activity unless specifically prohibited by the faculty member. However, the redistribution of any audio or video recordings of statements or comments from the course to individuals who are not students in the course is prohibited without the express permission of the faculty member and of any students who are recorded, including those recordings prepared by an instructor. Students found to have violated this policy are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.	Executive Order #38 (CRR 200.015)
Attendance Policy	Students who have an excused absence are expected to make arrangements with instructors for alternative or make-up work. Such arrangements should be made in advance of the absence, where possible.	http://www.umkc.edu/c atalo g/attendancepolicy

Campus Safety Inclement weather, mass notification, and emergency response guide. http://www.um	
	<u>kc.euu/u</u>
Campus Police: 816-235-1515 or 911	
alert/	
http://www.um	kc.edu/p
olice Police: 816	-235-
1515 or 911	
Counseling and Health UMKC students may experience many challenges in their lives while	
Services Available at UMKC attending college – stress, depression, suicidality, trauma, relationship www.umkc.edu,	/counseli
issues, health concerns, etc. As your professor I care about your success ingcenter	
and well-being, and want to make you aware of some helpful resources	
on campus. The UMKC Counseling Center	
(www.umkc.edu/counselingcenter) located at 4825 Troost in Room 206	
offers a wide range of supportive services to students. Appointments	
can be made by calling 816 225 1625. LIMKC Student Health and	
Vallages (http://info.um/s.cdu/studenthesith(), logated at 4925 Treast	
weiliness (http://info.unkc.edu/studentneatin/), located at 4825 froost	
In Room 115, offers a full range of health care and promotion services.	
Appointments can be scheduled online or by calling 816.235.6133. The	
MindBody Connection (www.umkc.edu/mindbody) is located in the	
Atterbury Student Success Center in Room 112 and offers a variety of	
stress-reduction services.	
Disability Support Services To obtain disability related accommodations and/or auxiliary aids, http://www.um	kc.edu/d
students with disabilities must contact the Office of Services for <u>isabi</u>	
Students with Disabilities (OSSD) as soon as possible. To contact OSSD lity/	
call 816-235-5696. Once verified, OSSD will notify the course instructor	
and outline the accommodation and/or auxiliary aids to be provided.	
For more information go to: http://www.umkc.edu/disability/.	
English Proficiency Statement Students who encounter difficulty in their courses because of the English	
proficiency of their instructors should speak directly to their instructors.	
If additional assistance is needed, they may contact the UMKC Help Line	
at 816-	
235-2222 for assistance.	

Grade Appeal Policy Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the instructor. This grade appeal procedure is available only for the review of allegedly capricious grading and not for review of the instructor's evaluation of the student's academic performance. Capricious grading, as that term is used here, comprises any of the following: • • The assignment of a grade to a particular student on some basis other than the performance in the course; • • The assignment of a grade to a particular student according to more exacting or demanding standards than were applied to other students in the course; (Note: Additional or different grading criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.) • The assignment of a grade by a substantial departure from the instructor's previously announced standards. Title IX Under the University of Missouri's Title IX policy, discrimination, violence and harassment based on sex, gender, and gender identity are subject to the same kinds of accountability and support applied to offenses based on other protected characteristics such as race, color, ethnic or national origin, sexual orientation, religion, age, ancestry, disability, military status, and veteran status. If you or somene you know has been harassed or assaulted, you can find the appropriate resources by visiting UMKC's Title IX Office webpage (http://info.umkc.edu/itie9/) or contacting UMKC's Title IX Coordinator, Mikah K. Thompson (816.235.6910 or thompsponmikah@umkc.edu). Additionally, you can f
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While most LINKC employees are required to report any known or
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suspected violation of litle IX, students may seek confidential guidance
from the following campus locations:
UMKC Counseling Service, UMKC Counseling Service, Health Sciences Communa
Volker Campus and Wellness
4825 Troost Ave, Suite 206 Health Sciences Building 1418
Kansas City, MO 64110 2464 Charlotte 4825 Troost Ave.,
Phone – (816) 235-1635 Kansas City, MO 64108 Suite 115, Kansas City,
Phone – (816) 235-1635 MO 64110
(open Tuesdays, 1-5pm) Phone - (816) 235-6133

UMKC Connect	Important information is available to undergraduate students in UMKC Connect accessed through Blackboard. Throughout the term, students may receive emails regarding course grades or academic performance. Students are expected to address information posted in a timely fashion. This information may be shared with the student's Success Network made up his or her academic advisor(s) and other campus resources so that UMKC may fully support the student's success.	
Statement of Human Rights	The Board of Curators and UMKC are committed to the policy of equal opportunity, regardless of race, color, religion, sex, sexual orientation, national origin, age, disability and status as a Vietnam era veteran. Commitment to the policy is mentored by the <u>Division of Diversity, Access & Equity</u> , but it is the responsibility of the entire university community to provide equal opportunity through relevant practices, initiatives and programs.	Division of Diversity, Acc ess & Equity 5115 Oak Street (816)235- 1323 Fax:(816)235- 6537 umkcaffirmativeaction@ umk c.edu http://www.umkc.edu/d ivers ity/index.asp
Discrimination Grievance Procedures for Students	Discrimination Grievance Procedures for Students can be found here: http://www.umsystem.edu/ums/rules/collected_rules/grievance/ch390 /grievance_390.010	http://www.umsystem.e du/u ms/rules/collected_rules /grie_ vance/ch390/grievance_ 390. 010 http://www.umkc.edu/d ivers ity/documents/complain tpro cess.pdf