

Course Approval Form

For instructions see:

http://registrar.gmu.edu/facultystaff/catalog-revisions/course/

Action Requested: X Create new course Modify existing course (check al Title Prereq/coreq Schedu Other:	Inactivate existing course I that apply) Ile Type Repeat Status Restrictions	Columnation	Durse Level: Undergraduate Graduate			
College/School: COS Department: BMED Submitted by: William Hahn Ext: 3-7054 Email: Whahn2@gmu.edu						
Subject Code: BMED Number: 550 Effective Term: Fall (Do not list multiple codes or numbers. Each course proposal must have a separate form.) Effective Term: Fall x Spring Year 2016 Summer Summer						
Title: Current Fulfills Mason Core Req? (undergrad only) Banner (30 characters max w/ spaces) Special Topics in Biomedicine Currently fulfills requirement New Special Topics in Biomedicine Submission in progress						
Credits: x Fixed or 2 Repeat Status: x Not Repeatable (NR) (check one) Variable to (check one) Repeatable within degree (RD) Maximum credits allowed: 2						
Grade Mode: X Regular (A, B, C (check one) Satisfactory/No Special (A, B C,	C, etc.) Schedule Ty Credit (check one) etc. +IP) LEC can include LAB or RCT	ype: x Lecture (LEC) Lab (LAB) Recitation (RCT) Internship (INT)	Independent Study (IND) Seminar (SEM) Studio (STU)			
Prereguisite(s):	Corequisite(s):		Instructional Mode:			
Successful completion of first sem the ABS Certificate curriculum (Biochemistry, Biostatistics, Histole	ester of Spring ABS Certifi Anatomy, Human ogy)	cate courses (Human Physiology)	x 100% face-to-face Hybrid: ≤ 50% electronically delivered 100% electronically delivered			
Restrictions Enforced by Syster	m: Major, College, Degree, Pro	ogram, etc. (include code) Equi	valencies: (check only as applicable)			
Restricted to ABS Certificate Stud	ents (CERG-ABS) and by invit	tation from the BMED	ES, course is 100% equivalent to:			
director only.	director only. YES, course is being renumbered					
Catalog Copy for NEW Course	es Only (Consult University Ca	talog for models)				
Description (No more than 60 words, use verb phrases and present tense) Notes (List additional information for the course)						
This course presents various topics in biomedicine in a lecture/seminar format. Students build on the ABS Certificate curriculum to enhance their understanding of biomedical issues and better prepare for careers in the health professions.						
Indicate number of contact hours: When Offered: (check all that apply)	Hours of Lecture or Sem	ninar per week: 2 Ho x Spring	urs of Lab or Studio:			
Approval Signatures						
Department Approval	Date	College/School Approval	Date			
If this course includes subject matter currently dealt with by any other units, the originating department must circulate this proposal for review by						
those units and obtain the necessary s	signatures prior to submission. Fai	iure to do so will delay action on this p	proposal.			
	Unit Approval Name	Unit Approver's Signature	Date			

For Graduate Courses Only

Graduate Council Member	Provost Office	Graduate Council Approval Date

Course Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL COURSES (required)

Course Number and Title:

BMED 550 Special Topics in Biomedicine

Date of Departmental Approval:

FOR INACTIVATED/REINSTATED COURSES (required if inactivating/reinstating a course)

• Reason for Inactivating/Reinstating:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification:
- Text before Modification (title, repeat status, catalog description, etc.):
- Text after Modification (title, repeat status, catalog description, etc.):
- Reason for the Modification:

FOR NEW COURSES (required if creating a new course)

• Reason for the New Course:

This course is being created to better serve the ABS Certificate students. Previously BIOL 591 Special Topics was used to accommodate invited ABS students but confusion in scheduling and reporting suggests that a new course within the BMED program is a better approach.

• Relationship to Existing Programs:

The proposed course will serve as an elective made available to top performers in the ABS Certificate by invitation of the instructor.

• Relationship to Existing Courses:

This is an elective course that assumes successful completion of the Fall ABS Curriculum. It does not replace any ABS course but, rather, offers additional material to students performing in the top quartile of the Certificate.

- Semester of Initial Offering: Spring, 2016
- Proposed Instructors:

William Hahn

Insert Tentative Syllabus Below

Spring 2015	Biology 591: Evolutionary Medicine		
	Tuesdays, 10:00-11:45am, Bull Run Hall 130		
Instructor:	Office: Bull Run Hall 308C	Office Hours:	
Dr. William Hahn	703-993-7054, whahn2@gmu.edu	By appointment	

Description

This course offers a graduate-level exploration of the evolutionary principles behind human diversity with particular reference to human health. Concepts such as natural selection, genetic drift, molecular evolution, coevolution, life history theory, sexual selection, evolutionary developmental biology and evolutionary ethics will be presented as a framework for understanding human anatomy, physiology, nutrition, metabolism, reproduction, disease response, stress, and behavior. Each class session will consist of approximately one half lecture and one half discussion or paper presentation.

Texts

Primary (required):

Gluckman, P, A. Beedle, and M. Hanson. 2009. Principles of Evolutionary Medicine. Oxford Univ. Press. New York.

Perlman, R. L. 2013. Evolution and Medicine. Oxford Univ. Press. Oxford, UK

Trevathan, W. R, E. O. Smith, and J. J. McKenna. 2008. Evolutionary Medicine and Health. Oxford Univ. Press. New York

Secondary (optional):

Nesse, R. M., and G. C. Williams 1996. Why We Get Sick. Vintage Books. New York

Lieberman, D. E. The Story of the Human Body. Vintage Books. New York.

Langdon, J. H. 2005. The Human Strategy. Oxford Univ. Press. New York.

The primary texts are used as a core reference for the course and should be followed closely. Lectures will make direct use of content from Gluckman, et al. (2009) and Perlman (2013). Student presentations will be taken from individual chapters selected by the student in Trevathan, et al. (2008). Additional chapters from other texts and as assigned will be listed accordingly.

Grading

There are two exams, a comprehensive final, and one student-led presentation/report for this class. Each exam counts 25% toward your final grade. There are no make-up exams. If you have documented proof that you missed the exam because you were ill or injured, your final exam will count 50%. Unless the instructor announces otherwise, if a scheduled exam is canceled by snow or for any other reason, the exam will be given during the next scheduled class period. For the final 25% of the grade, students will each present a chapter from Trevathan, et al. (2008) as approved by the instructor. Guidelines for presentations will be distributed in class.

Course schedule

Date	Торіс	Readings:	Presentations
		G = Gluckman et al.	
		P = Perlman	
Jan 20	1-Introduction	G ch 1, P ch 1 & 2	
Jan 27	2-Evolutionary Theory	G ch 2, P ch 1 & 2	
Feb 3	3-Molecular Basis of Variation	G ch 3, P ch 3	
Feb 17	4-Evolution and Development	G ch 4	3
Feb 19	5-Evolution of Life Histories	G ch 5, P ch 5	3
Feb 24	6-Origins of Human Diversity	G ch 6, P ch 2	1 + review
Mar 3	Class cancelled		
Mar 10	SPRING BREAK	No class	
Mar 17	Exam 1		
Mar 24	7-Reproduction	G ch 7,	2
Mar 26	8-Nutrition and Metabolic Adaptation	G ch 8	2
Mar 31	9-Defense	G ch 9, P ch 6, 7, 8, 9	2
Apr 2	10–Social Organization and Behavior	G ch 10, P ch 10, 11	2
April 7	Exam review		1
April 14	Exam 2		
April 21	TBD		
April 28	11-Evolutionary Principles and	G ch 11	3
	Medical Practice		
April 30	12-Evolutionary Principles and	G ch 12	3
	Medical Practice		
May 5	Final Exam Review		
May 7	Final Exam		

Presentation files and other material will be available on Blackboard.

Last Day to Add: January 27, 2015; Last Day to Drop: February 20, 2015

Students in need of academic accommodations should contact the Disability Resource Center (DRC) at 703-993-2474. All academic accommodations must be arranged through that office.

Academic Integrity

GMU is an Honor Code university; please see the University Catalog for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely. What does academic integrity mean in this course? Essentially this: when you are responsible for a task, you will perform that task. When you rely on someone else's work in an aspect of the performance of that task, you will give full credit to those people in the proper, accepted form. When doing homework, the work must be yours. It is totally unacceptable to copy the work of another student in this course in any form.

GMU Email Accounts

Students must use their Mason email account to receive important University information, including messages related to this class. See http://masonlive.gmu.edu for more information.

Useful Campus Resources:

Writing Center: A114 Robinson Hall; (703) 993-1200; http://writingcenter.gmu.edu

UNIVERSITY LIBRARIES "Ask a Librarian" http://library.gmu.edu/mudge/IM/IMRef.html

Counseling and Psychological Services (CAPS): (703) 993-2380; http://caps.gmu.edu

University Policies

The University Catalog, http://catalog.gmu.edu, is the central resource for university policies affecting student, faculty, and staff conduct in university academic affairs. Other policies are available at http://universitypolicy.gmu.edu/. All members of the university community are responsible for knowing and following established policies.