

APPLICATION FOR NEW COURSE

1. Submitted by College of Medicine Date 11/15/06

Department/Division offering course Behavioral Science

2. Proposed designation and Bulletin description of this course

a. Prefix and Number BSC787 b. Title* Biobehavioral Perspectives on Drug and Alcohol Abuse and Dependency

*NOTE: If the title is longer than 24 characters (including spaces), write
A sensible title (not exceeding 24 characters) for use on transcripts Biobehavior Drugs & Alc

c. Lecture/Discussion hours per week 3 d. Laboratory hours per week 0

e. Studio hours per week 0 f. Credits 3

g. Course description

See attached

h. Prerequisites (if any)

See attached

i. May be repeated to a maximum of NA (if applicable)

4. To be cross-listed as

NA
Prefix and Number Signature, Chairman, cross-listing department

5. Effective Date Spring '08 (semester and year)

6. Course to be offered Fall or Spring Summer

7. Will the course be offered each year? Yes No
(Explain if not annually)

This is an elective graduate seminar fulfilling requirements for various master's and Ph.D. level students

in several different degree programs and so will be offered on a rotating basis with other department graduate seminars.

8. Why is this course needed?

This course is already offered as a BSC772 Special Topics Seminar. Due to its success (enrollments & positive student evaluations) and to department plans to continue offering it, a more permanent course title and number is needed.

9. a. By whom will the course be taught? Thomas H. Kelly

b. Are facilities for teaching the course now available? Yes No
If not, what plans have been made for providing them?

NA

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10. What enrollment may be reasonably anticipated? 10-15 masters level and Ph.D. students
11. Will this course serve students in the Department primarily? Yes No
- Will it be of service to a significant number of students outside the Department?
If so, explain. Yes No
- The course is an elective for students in the recently created Col of Public Health, Col of Medicine's MS in Medical Science, Certificates in Behavioral Science and in Health Communication and graduate programs such as Gerontology and Psychology.
- Will the course serve as a University Studies Program course? Yes No
- If yes, under what Area? NA
12. Check the category most applicable to this course
- traditional; offered in corresponding departments elsewhere;
- relatively new, now being widely established
- not yet to be found in many (or any) other universities
13. Is this course applicable to the requirements for at least one degree or certificate at the University of Kentucky? Yes No
14. Is this course part of a proposed new program: Yes No
If yes, which?
No, but several students from new programs will enroll in it (see above).
15. Will adding this course change the degree requirements in one or more programs? Yes No
If yes, explain the change(s) below (NOTE – If “yes,” a program change form must also be submitted.)
NA
-
16. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used.
18. If the course is 400G or 500 level, include syllabi or course statement showing differentiation for undergraduate and graduate students in assignments, grading criteria, and grading scales. Check here if 400G-500.
19. Within the Department, who should be contacted for further information about the proposed course?
- Name Thomas H. Kelly (thkelly@uky.edu) Phone Extension 3-5206

APPLICATION FOR NEW COURSE

Signatures of Approval:

<u>12/07/06</u> Date of Approval by Department Faculty	<u>[Signature]</u> Reported by Department Chair
<u>[Signature] 4-17-07</u> Date of Approval by College Faculty	<u>[Signature] 4-27-07</u> Reported by College Dean
<u>[Signature] 2-19-07</u> *Date of Approval by Undergraduate Council Curriculum Committee	<u>[Signature]</u> Reported by Undergraduate Council Chair
<u>[Signature]</u> *Date of Approval by Graduate Council	<u>[Signature]</u> Reported by Graduate Council Chair
<u>6/19/07</u> *Date of Approval by Health Care Colleges Council (HCCC)	<u>[Signature]</u> Reported by HCCC Chair
<u>[Signature]</u> *Date of Approval by Senate Council	<u>[Signature]</u> Reported by Senate Council Office
<u>[Signature]</u> *Date of Approval by University Senate	<u>[Signature]</u> Reported by Senate Council Office

*If applicable, as provided by the Rules of the University Senate

UNIVERSITY OF KENTUCKY COLLEGE OF MEDICINE
Department of Behavioral Science

Sample Syllabus for BSC 787
Biobehavioral Perspectives on Drug and Alcohol Abuse and Dependency
Spring Semester, 2004

Syllabus

Class meetings

Thursdays from 1:30 to 4:00 P.M.
Room 104, College of Medicine Office Building (COMOB)

<u>Coordinator:</u>	<u>Office</u>	<u>Telephone</u>	<u>e-mail</u>
Thomas H. Kelly	134 COMOB	323-5206	thkelly@uky.edu

Instructors:

Michael Bardo	110a Kastle Hall	257-6456	mbardo@uky.edu
Susan Barron	208 Kastle Hall	257-5401	sbarron@uky.edu
Penni Black	501c Pharmacy	323-5898	penni.black@uky.edu
Donald Lynam	207q Kastle Hall	257-8662	dlyna1@uky.edu
Ellen Hahn	519 College of Nursing	257-2358	ejhahn00@email.uky.edu
Kurt Hauser	MN 220 Med Science Bldg	323-6477	khauser@pop.uky.edu
Lon Hays	3470 Blazer Pkwy	323-6021 x 264	lrhays@uky.edu
Carl Leukefeld	111 COMOB	323-5308	cleukef@uky.edu
Josh Lile	204B 465 E. High St.	257-5388	jalile2@uky.edu
Catherine Martin	338 3470 Blazer Pkwy	323-6021 x 231	cmartin@email.uky.edu
Dominic Parrott	109a Kastle Hall	257-6122	parrott@uky.edu
James Pauly	220 Pharmacy	323-8164	jpaully@uky.edu
Robert Straus	126 COMOB	268-0873	rstraus@uky.edu
Rick Zimmerman	245 Grehan Bldg	257-4099	rszimm@uky.edu

Objectives

1. Introduce students to major concepts and issues of general importance in drug and alcohol abuse and dependence.
2. Enable students to interpret and evaluate research findings from different disciplines and/or levels of analysis.
3. Enhance appreciation for multidisciplinary efforts in drug and alcohol abuse and dependence research.

4. Enhance interdisciplinary communication skills.

Course Description

This seminar course is designed to survey major topics, concepts and issues pertinent to the field of drug and alcohol abuse and dependence. The course will consist of 14 weekly presentations by instructors followed by open discussion of the presentation and assigned readings by class members. Active participation by all members is expected. Each weekly presentation is designed to provide a general overview of the current state of knowledge (e.g., theory, methods, ethics, review of classic and/or exemplary studies) in a given area of drug and alcohol abuse and dependence research. Discussions are intended to integrate the information across traditional disciplinary boundaries.

Prerequisites

This course is an introductory graduate level course intended for students pursuing focused research training in one or more areas of drug and alcohol abuse and dependence. No special prerequisites, other than graduate standing, are necessary.

Readings

There is no textbook for this course. Copies of assigned readings will be available in the Behavioral Science Reading Room (Room 135, College of Medicine Office Building).

Course Expectations

1. Attendance and participation in class discussions. Due to the nature of this course, there is no substitute for attendance at each session and participation in class discussions. Unexcused absences will result in a decrease of one full letter grade (i.e., 1 unexcused absence, maximum grade: 'B;' 2 unexcused absences, maximum grade 'C;' etc.). Students will be expected to compensate for excused and unexcused absences in consultation with instructors.
2. Command of assigned readings. Because the course is designed to promote discussion of interdisciplinary implications of research, students have a responsibility to the class as a whole to be prepared for discussion of assigned readings during class sessions.
3. Leadership of assigned discussions. Students will coordinate group discussions on one or more weeks of the semester. As discussion leaders, it will be the student's responsibility to coordinate topics and stimulate productive discussion related to the evening's topic. Discussion topics can be selected in consultation with the instructor for the scheduled session, but it is the responsibility of the student to contact the instructor well in advance of the scheduled class to schedule the consultation. It is expected that the discussion topics will be chosen in order to integrate the information across disciplines.

A list of potential discussion topics and a brief description of the intended objectives of each topic should be turned in after the class.

Grades

Grades will be determined by a combination of class participation and leadership of assigned discussions in the following manner:

	<u>%</u>
Class Participation	70
Discussion Leadership	30

Progress reports will be provided to students with grades for class participation and discussion leadership every four weeks. Student evaluations of the course are welcome at any time and will be specifically solicited at the end of the course.

Attendance

As this is a graduate level course, students are expected to attend class and be prepared to discuss the required readings. If students have a university excused absence they should notify the instructor prior to the class, when possible. Each unexcused absence will result in 5% reduction in the final grade for the course.

University Policy on Plagiarism and Cheating

PLAGIARISM and CHEATING are serious academic offenses. The minimum penalty for those academic offenses is final grade E in the assignment.

The University regulations pertaining to this matter can be found at <http://www.uky.edu/StudentAffairs/Code/> Of particular relevance is Part II, SELECTED RULES OF THE UNIVERSITY SENATE GOVERNING ACADEMIC RELATIONSHIPS, Section 6.3 that can be found at <http://www.uky.edu/StudentAffairs/Code/part2.html>

These rules in particular say: PLAGIARISM All academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about a question of plagiarism involving their work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgment of the fact, the students are guilty of plagiarism.

Plagiarism includes reproducing someone else's work, whether it be published article,

chapter of a book, a paper from a friend or some file, or whatever. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be. Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources or information, the student must carefully acknowledge exactly what, where and how he/she has employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain.

6.3.2 CHEATING Cheating is defined by its general usage. It includes, but is not limited to, the wrongfully giving, taking, or presenting any information or material by a student with the intent of aiding himself/herself or another on any academic work which is considered in any way in the determination of the final grade. Any question of definition shall be referred to the University Appeals Board.

Schedule

January 13 Course Orientation

January 20 History of Drug and Alcohol Abuse Research (R. Straus)

Gordis, E. "The National Institute on Alcohol Abuse and Alcoholism-- Past accomplishments and future goals." *Alcohol Health & Research World*, 19:5-11, 1995.

Hewit, BG. "The creation of the National Institute on Alcohol Abuse and Alcoholism." *Alcohol Health & Research World*, 19:12-16, 1995.

Pickens, R. "Behavioral pharmacology: A brief history." *Advances in Behavioral Pharmacology, Vol 1*, Academic Press, New York, NY, 230-257, 1977.

Straus, R. "Origins and Development of Federal Support for Alcohol Research." *Alcohol Health & Research World*, 12: 272-274, 1988.

January 27 Neuroanatomy (K. Hauser)

Leshner AI, Koob GF. "Drugs of abuse and the brain." *Proceedings of the Association of American Physicians*, 111:99-108, 1999.

February 3 Neurobiochemistry/Receptor Theory (M. Bardo)

Carlson, NR. Chapter 2, section entitled “Communication between neurons.”
Physiology of Behavior, 8th Edition, Allyn and Bacon, Boston, MA, 50-63, 2004.

Carlson, NR. Chapter 4, “Psychopharmacology.” *Physiology of Behavior*, 8th
Edition, Allyn and Bacon, Boston, MA, 101-129, 2004.

Koob, GF, Ahmed, SH, Boutrel, B, Chen, SA, Kenny, PJ, Markou, A, et al.
“Neurobiological mechanisms in the transition from drug use to drug dependence.”
Neuroscience & Biobehavioral Reviews, 27:739-749, 2004.*

February 10 Pharmacology (J. Pauley)

Merck Manuel: Clinical Pharmacology Section
<http://www.merck.com/mrkshared/mmanual/section22/sec22.jsp>

February 17 Genetics (P. Black)

Lerman, C and Niaura, R. "Applying genetic approaches to the treatment of nicotine dependence." *Oncogene*, 21:7412-7420, 2002.*

Nestler, EJ. "Molecular mechanisms of drug addiction." *Neuropharmacology*. 47:24-32, 2004.*

Nestler, EJ and Landsman, D. "Learning about addiction from the genome." *Nature*, 409:834-35, 2001.*

Sinclair, A. "Genetics 101: detecting mutations in human genes." *Canadian Medical Association Journal*, 167: 275-279, 2002.*

February 24 Animal Models (J. Lile)

Meisch, RA and Lemaire, GA. "Drug self-administration." In: van Haaren, F (Ed.). *Methods in Behavioral Pharmacology*, Elsevier, Amsterdam, Ch. 11, 257-300, 1993.

Hughes, JR and Bickel, WK. "Modeling drug dependence behaviors for animal and human studies." *Pharmacology Biochemistry and Behavior*, 57:413-417, 1997.

Markou, A, Weiss, F, Gold, LH, Caine, SB, Schulteis, G and Koob, GF. "Animal models of drug craving." *Psychopharmacology*, 112:163-182, 1993.

March 3 Human Models (D. Parrott)

Higgins, ST., Bickel, WK., and Hughes, JR. "Methods in the human behavioral pharmacology of drug abuse." In: van Haaren, F (Ed.). *Methods in Behavioral Pharmacology*, Elsevier, Amsterdam, Ch. 18, 475-497, 1993.

Bushman, BJ and Anderson, CA. "Methodology in the study of aggression: Integrating experimental and nonexperimental findings." In: Geen, RG and Donnerstein, E. (Eds.). *Human Aggression: Theories, Research, and Implications for Social Policy*. Academic Press, San Diego, Ch. 2, 23-48, 1998.

March 10 Developmental Issues (S. Barron)

Chambers, RA, Taylor, JR, and Potenza, MN. "Developmental Neurocircuitry of Motivation in Adolescence: A Critical Period of Addiction Vulnerability." *American Journal of Psychiatry*, 160:1041-1052, 2003.*

Chen WJ, Maier SE, Parnell SE, and West JR. "Alcohol and the developing brain: neuroanatomical studies." *Alcohol Research & Health*, 27(2):174-80, 2003.*

Jacobson JL, Jacobson SW. Effects of prenatal alcohol exposure on child development. *Alcohol Research & Health*, 26:282-286, 2002.*

Mattson SN, Schoenfeld AM, Riley EP. Teratogenic effects of alcohol on brain and behavior. *Alcohol Research & Health*, 25:185-191, 2001.*

Vorhees, CV. "Principles of behavioral teratology." In: Riley, EP and Vorhees, CV (Eds.). *Handbook of Behavioral Teratology*, Plenum Press, New York, Ch. 2, 23-48, 1986.

Warren KR, Foudin LL. (2001) Alcohol-related birth defects--the past, present, and future. *Alcohol Research & Health*, 25:153-158, 2001.*

March 17 Spring Vacation

March 24 Etiology (D. Lynam)

Dishion, TJ, Capaldi, DM, and Yoerger, K. "Middle childhood antecedents to progressions in male adolescent substance use: An ecological analysis of risk and protection." *Journal of Adolescent Research*, 14:175-205, 1999.

Tarter, R, Vanyukov, M, Giancola, P, Dawes, M, Blackson, T, Mezzich, A and Clark, DB. "Etiology of early age onset substance use disorder: A maturational perspective." *Development and Psychopathology*, 11:657-683, 1999.

Sher, KJ and Trull, TJ. "Personality and disinhibitory psychopathology: Alcoholism and antisocial personality disorder." *Journal of Abnormal Psychology*, 103:92-102, 1994.

Chassin, L, Curran, PJ., Hussong, AM and Colder, CR. "The relation of parent alcoholism to adolescent substance use: A longitudinal follow-up study." *Journal of Abnormal Psychology*, 105:70-80, 1996.

March 31 Health Services Research (C. Leukefeld)

Blue Ribbon Task Force on Health Services Research at the National Institute on

Drug Abuse (2004).

<http://www.drugabuse.gov/about/organization/nacda/HSRReport.pdf>

Andersen, RM. "Revisiting the behavioral model and access to medical care: Does it matter?" *Journal of Health and Social Behavior*, 36:1-10, 1995.

April 7 Epidemiology (R. Zimmerman)

Bachman, JG, Wallace, JM, O'Malley, PM, Johnston, LD, Kurth, CL and Neighbors, HW. "Racial/ethnic differences in smoking, drinking, and illicit drug use among American high school seniors, 1976-89." *American Journal of Public Health*, 81: 372-377, 1991.

Biafora, F and Zimmerman, R. "Developmental patterns of African American adolescent drug use." In Vega VA and Gil AG (Eds.). *Drug Use and Ethnicity in Early Adolescence*, Plenum Press, New York, Ch 7, 149-176, 1998.

Summary of Findings from the 1998 National Household Survey on Drug Abuse. Department of Health and Human Services, SAMHSA, Office of Applied Studies, 5600 Fishers Lane, Rockville, MD.

April 14 Medical Complications (C. Martin)

Mack, AH, Franklin, JE and Frances, RJ "Substance Use Disorders." In Hales and Yudofsky, S (Eds.). *Essentials of Clinical Psychiatry*, American Psychiatric Publishing, Washington, DC, 115-187, 2004.

April 21 Prevention (E. Hahn)

Chaloupka FJ, Hahn E, and Emery S. “Policy levers for the control of tobacco consumption.” *Kentucky Law Journal*, 90:1009-1042, 2002.

Fiore, M et al. “Preventing 3 million premature deaths and helping 5 million smokers quit: A national action plan for tobacco cessation.” *American Journal of Public Health*, 94:205-210, 2004.

Komro, KA and Toomey, TL (2002). “Strategies to prevent underage drinking.” *Alcohol Research and Health*, 26:5-14, 2002.

Nation, M. et al. (2003). “What works in prevention: Principles of effective prevention programs.” *American Psychologist*, 58:449-456, 2003.

Weissberg, RP, Kumpfer, KL and Seligman, MEP. “Prevention that works for children and youth.” *American Psychologist*, 58:425-432, 2003.

April 28 Treatment/Relapse (L. Hays)

O’Brien, CP. “A range of research-based pharmacotherapies for addiction.” *Science*, 278:66-70, 1997.

Self, DW and Nestler, EJ. “Relapse to drug-seeking: Neural and molecular mechanisms.” *Drug and Alcohol Dependence*, 51:49-60, 1998.

Stitzer, ML and Walsh, SL. “Psychostimulant abuse: The case for combined behavioral and pharmacological treatments.” *Pharmacology Biochemistry and Behavior*, 57:457-470, 1997.

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UNIVERSITY SENATE ROUTING LOG

Proposal Title:

Name/email/phone for proposal contact:

Instruction: To facilitate the processing of this proposal please identify the groups or individuals reviewing the proposal, identify a contact person for each entry, provide the consequences of the review (specifically, approval, rejection, no decision and vote outcome, if any) and please attach a copy of any report or memorandum developed with comments on this proposal.

Reviewed by: (Chairs, Directors, Faculty Groups, Faculty Councils, Committees, etc)	Contact person Name (phone/email)	Consequences of Review:	Date of Proposal Review	Review Summary Attached? (yes or no)
Department of Behavioral Science	John F. Wilson (3-6257, jfwilson@pop.uky.edu)	Approved	12/1/06	No
COM Curriculum Committee	DARRELL JENNINGS 7-5286	Approved	2-19-07	No
COM Faculty Council	Emm Grant 3-6412	Approved	4-17-07	No
COM Dean	Jay Purman 3-6582	Approved	4-27-07	No

Grading Scale for Graduate Students

100-90% = A

89.9-80% =B

79.9-70% = C

< 69.9% = E