HHS 450: Introduction to Dentistry (3 credit hours)

APPLICATION FOR NEW COURSE

1.	**General Information.**				
a.	Submitted by the College of:	Health Sciences		Today's Date:	6/14/11
b.	Department/Division:	Clinical Sciences			
c.	Contact person name:	Sharon R. Stewart	Email: srstew01@uky.edu	Phone:	218-0570
d.	Requested Effective Date:	☐ Semester following approval	OR	☒ Specific Term/Year[1]:	Fall 2012
2.	**Designation and Description of Proposed Course.**				
a.	Prefix and Number:	HHS 450			
b.	Full Title:	Introduction to Dentistry			
c.	Transcript Title (if full title is more than 40 characters):	NA			
d.	To be Cross-Listed[2] with (Prefix and Number):	NA			
e.	Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours[3] for each meeting pattern type.				
	45 - 3hrs/week Lecture	_____ Laboratory[1]	_____ Recitation	_____ Discussion	_____ Indep. Study
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research	_____ Residency
	_____ Seminar	_____ Studio	_____ Other – Please explain:	_____	
f.	Identify a grading system:	☒ Letter (A, B, C, etc.)	☐ Pass/Fail		
g.	Number of credits:	03			
h.	Is this course repeatable for additional credit?			YES ☐	NO ☒
	If YES:	Maximum number of credit hours:	_____		
	If YES:	Will this course allow multiple registrations during the same semester?		YES ☐	NO ☒
i.	Course Description for Bulletin:	This course is an introduction to the profession of dentistry and provides a brief overview of some pre-clinical dental courses that are taught in the first two years of dental school. The student will become familiar with basic dental terminology, current issues in dentistry and the latest techniques and technology used in clinical settings. The student will have the opportunity to develop manual dexterity and learn basic clinical etiquette and safety procedures. This course serves as a foundation for students interested in pursuing a career in dentistry or for those who want to enhance their knowledge of oral health prior to entering any health field.			
j.	Prerequisites, if any:	Admission to HHS Program or consent of instructor. Two semesters of Biology with Lab and Human Anatomy recommended, but not required.			
k.	Will this course also be offered through Distance Learning?			YES[4] ☐	NO ☒

[1] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

[2] The chair of the cross-listing department must sign off on the Signature Routing Log.

[3] In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from *SR 5.2.1*)

APPLICATION FOR NEW COURSE

l.	Supplementary teaching component, if any:	☐ Community-Based Experience	☐ Service Learning	☐ Both
3.	**Will this course be taught off campus?**		YES ☐	NO ☒
4.	**Frequency of Course Offering.**			
a.	Course will be offered (check all that apply):	☐ Fall	☒ Spring	☐ Summer
b.	Will the course be offered every year?		YES ☒	NO ☐
	If NO, explain:	_____		
5.	**Are facilities and personnel necessary for the proposed new course available?**		YES ☒	NO ☐
	If NO, explain:	_____		
6.	**What enrollment (per section per semester) may reasonably be expected?**	30-50		
7.	**Anticipated Student Demand.**			
a.	Will this course serve students primarily within the degree program?		YES ☒	NO ☐
b.	Will it be of interest to a significant number of students outside the degree pgm?		YES ☒	NO ☐
	If YES, explain:	This course may also be of interest to students in related health fields such as pharmacy, communication disorders, or physical therapy or in other degreee programs.		
8.	**Check the category most applicable to this course:**			
	☒ Traditional – Offered in Corresponding Departments at Universities Elsewhere			
	☐ Relatively New – Now Being Widely Established			
	☐ Not Yet Found in Many (or Any) Other Universities			
9.	**Course Relationship to Program(s).**			
a.	Is this course part of a proposed new program?		YES ☒	NO ☐
	If YES, name the proposed new program:	Bachelor's Degree in Human Health Sciences		
b.	Will this course be a new requirement[5] for ANY program?		YES ☒	NO ☐
	If YES[5], list affected programs:	This couse is required for those students enrolled in the Dentistry concentration of the Human Health Sciences program		
10.	**Information to be Placed on Syllabus.**			
a.	Is the course 400G or 500?		YES ☐	NO ☒
	If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in ***10.b***. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4.*)			
b.	☒	The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from ***10.a*** above) are attached.		

[4] You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.
[5] In order to change a program, a program change form must also be submitted.

APPLICATION FOR NEW COURSE

Signature Routing Log

General Information:

Course Prefix and Number: HHS 450

Proposal Contact Person Name: Sharon R. Stewart Phone: 218-0570 Email: srstew01@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Dept. of Clinical Sciences	7/07/2011	Dr. Karen Skaff / 218-0585 / karenskaff@uky.edu	
College of Health Sciences	7/26/2011	Dr. Sharon Stewart / 218-0570 / srstew01@uky.edu	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[6]
Undergraduate Council	2/28/2012	Sharon Gill	
Graduate Council			
Health Care Colleges Council	11/15/11	Heidi Anderson	
Senate Council Approval		University Senate Approval	

Comments:

[6] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

University of Kentucky
College of Health Sciences
Department of Clinical Sciences

HHS 450: Introduction to Dentistry
Section TBD
Course Credits: 3

COURSE MEETING DAYS AND TIMES: TBD
COURSE MEETING LOCATION: TBD
INSTRUCTOR INFORMATION:

Instructor: Dr. James Haubenrich
Department: College of Dentistry, Oral Health Practice
Office phone: 323-2805
Office address: D638, Dental Science Building
Email: jhaub2@email.uky.edu
Preferred method of coutact: email or phone
Office hours: by appointment

Instructor: Dr. Cynthia Beeman
Department: College of Dentistry, Oral Health Science
Office phone: 323-5580
Office address: M132, Dental Science Building
Email: jhaub2@email.uky.edu
Preferred method of contact: email or phone
Office hours: by appointment

COURSE DESCRIPTION: This course is an introduction to the profession of dentistry and provides a brief overview of some pre-clinical dental courses that are taught in the first two years of dental school. The student will become familiar with basic dental terminology, current issues in dentistry and the latest techniques and technology used in clinical settings. The student will have the opportunity to develop manual dexterity and learn basic clinical etiquette and safety procedures. This course serves as a foundation for students interested in pursuing careers in dentistry or for those who want to enhance their knowledge of oral health prior to entering any health field. Prerequisites: Admission to HHS program or consent of instructor. Two semesters of Biology with lab and Human Anatomy recommended, but not required.

COURSE GOALS: The goals of this course are to:
Introduce the profession of dentistry to prospective student dentists and other pre-health professional students. The content of this course is focused toward developing the basic knowledge, skills and values that are desirable in future health care professionals.

Methods used to develop this foundational knowledge include:

(1) **Role models**: Lectures/labs lead by dental faculty/practitioners
Examples: Full and Part-time and Volunteer Faculty from the College of Dentistry

(2) **Content information:** Lectures/labs /clinical experiences
Examples:

- The language of dentistry
- Introduction to the dentition
- Dental anatomy
- Oral health and its relationship to general health
- Dental and occlusal development
- Osteology and the muscles of mastication

- Dental neurology and anesthesia
- Oral diagnosis
- Restorative dentistry
- The practice of dentistry
- Professional training: applying to dental school and succeeding in the curriculum
- Periodontics
- Pediatric Dentistry
- Orthodontics
- Oral surgery
- Dental research
- Public health dentistry

(3) **Clinical/Basic Science linkages:** Clinical and basic science courses in which the foundational knowledge of this course are enhanced: all doctoral program dentistry courses

(4) **Dental/medical linkages:** Lectures/labs provide content regarding issues that interface dental/oral health and medical/general health parameters
Examples:
Diabetes and oral health
Periodontal disease and pre-term births
Periodontal disease and cardiac health
Smoking, oral health and general health
Nutrition and oral health
Oral and craniofacial deformities

STUDENT LEARNING OUTCOMES: Upon completion of this course, students will

- Demonstrate knowledge and understanding of the following foundational information:
  1. The history of dentistry
  2. Dental and medical terminology (the language of dentistry)
  3. Introduction to the dentition (the components of a healthy primary and permanent dentition)
     a. primary vs. permanent teeth
     b. types and names of teeth
     c. numbering systems
     d. surfaces and structures
  4. Development of the Human Dentition
     a. prenatal and postnatal development of the primary and permanent tooth buds
     b. typical timing and eruption sequences of the primary teeth
     c. typical timing and eruption sequences of the permanent teeth
  5. Normal Occlusal Development in the primary and permanent occlusions in three planes of space.
     a. occlusion and orthodontics
  6. Periodontics
     a. roots
     b. bone support
     c. the periodontal ligament
     d. gingiva
     e. accessing periodontal status
     f. factors contributing to periodontal disease
     g. treatment of periodontal disease
  7. Osteology and the muscles of mastication
     a. neurocranium and viscerocranium
     b. craniofacial muscles
     c. TM disorders

8. Neurology and dental anesthesia
    a. divisions of the trigeminal nerve
    b. dental injections for anesthesia
    c. other types of anesthesia
9. Oral Diagnosis
    a. medical and dental history
    b. intraoral examination
    c. diagnostic radiology (periapical rx, panoramic rx, cone-beam CT)
    d. soft tissue exam
    e. extraoral exam
    f. screening for oral cancer
    g. developing a comprehensive treatment plan
10. Restorative Dentistry
    a. cariology
    b. classification of restorations
    c. restoration materials
    d. bonding technology
    e. endodontics (restoration of endodontically treated teeth)
    f. crowns and onlays
    g. replacing missing teeth (some or all)
    h. implants
    i. esthetics and cosmetic reconstruction
11. Public Health Dentistry
    a. access to care issues
    b. outreach programs
    c. balancing private practice and community service
12. Dental Research
    a. current topics: periodontal, craniofacial, epidemiological, and materials research
13. Introduction to the Specialties:
    a. lectures by OMFS, Pediatric Dentistry, Orthodontics, Periodontics, Endondontics, etc, using case based materials.
14. The Profession of Dentistry
    a. qualities of the successful future health practitioner
    b. applying to dental school
    c. negotiating the dental school curriculum: best practices
    d. beyond the D.M.D. : Postgraduate and continuing education

- Identify anatomical structures from a panoramic radiograph
- Manipulate and name dental instruments
- Describe the basic steps involved in dental procedures, such as
    1. Preparation of teeth for restoration, restorative material placement, denture construction, and waxing crowns and inlays
    2. Oral and maxillofacial surgery (based on observation)
- Discuss the practice of dentistry in various observed contexts, such as the Mission Clinic or UKCD Saturday Morning Clinics

REQUIRED TEXTS AND READING: Syllabus and workbooks to be provided by the course directors.

COURSE CONTENT: See detailed list in Student Learning outcomes and the proposed course outline

GRADING:

Evaluation Components: Two examinations, one midterm and one final examination, quizzes, assigned article review, labs and observation experiences will be used to evaluate student performance as follows:

Item	Total points	% of course grade
Exam 1:	90	30
Exam 2:	90	30
6 Labs:	60 (10 each)	20
Observations:	30 (15 each)	10
Article review:	30	10
TOTAL	**300 points**	**100%**

Grading scale: Final course grades will be assigned as A, B, C, D or E according to the final total number of points earned in the course:

A = 270 – 300 points
B = 240 - 269
C = 210 - 239
D = 180 - 209
E = less than 180

Your mid-term grade will be available online on (date).
The final examination is scheduled on (date/time TBD) in room (TBD).

COURSE POLICIES:

Academic accommodations due to disability: If you have a documented disability that requires academic accommodations, please see the instructor as soon as possible. In order to receive accommodations in this course, you must provide the instructor with a Letter of Accommodation from the Disability resource Center (Room 2, Alumni gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Attendance: Attendance in this course is mandatory. For each unexcused absence, the final points awarded in the course will be lowered by 3 points (1 %). Tardiness of more than 5 minutes or leaving class early without prior arrangement with the instructor will lower the final average by 1 point for each infraction.

Excused absences: Senate Rule 5.2.4.2 defines the following as acceptable reasons for excused absences: serious illness; illness or death of family member; University-related trips; major religious holidays; and other circumstances the instructor may find to be 'reasonable cause for nonattendance."

Make-up opportunity: When there is an excused absence, you will be given the opportunity to make-up missed work and/or exams. It is your responsibility to inform the instructor of the absence and make arrangements for making up missed work or exams, preferably in advance, but no later than one week after it.

Verification of absences: Senate Rule 5.2.4.2 states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness or death in the family. The University Health Services (UHS) provides a printed statement that specifies that the University Health Services does not give excuses for absences from class due to illness or injury. At the discretion of the instructor, you may be asked to sign a release of information that will give permission for the staff to talk with the instructor to verify that you kept an appointment with University Health Services (especially when there has been multiple or prolonged absences from class). This form is available on the University Health Services Web Page: http://www.uky.edu/StudentAffairs/UHS/.

Submission of assignments: Unless PRIOR arrangements are made between the student and instructor,

assignments submitted late will be penalized 10% for each day beyond the due date. Assignments submitted electronically are due by 5:00 on the date specified; assignments to be submitted in class are due at the beginning of class.

Academic integrity, cheating, and plagiarism: Academic honesty is expected in this course, and any kind of plagiarism or other forms of cheating will not be tolerated.

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: http://www.uky.edu/Ombud. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of Student Rights and Responsibilities (available online http://www.uky.edu/StudentAffairs/Code/part2.html) states that 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 the question of plagiarism involving their own 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 acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. 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 of information, the student must carefully acknowledge exactly what, where and how he/she 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 (Section 6.3.1). Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

For more information on what constitutes plagiarism, you should read: "Plagiarism: What is it?" at http://www.uky.edu/Ombud/Plagiarism.pdf. The Ombud web site also includes a link to a Prentice Hall Companion Website "Understanding Plagiarism" http://wps.prenhall.com/hss_understand_plagiarism_1/0,6622,427064-,00.html. The site includes brief quizzes on related topics.

Classroom behavior, decorum and civility. In addition to cheating and plagiarism, classroom demeanor is an increasingly significant problem on campus (and nationally). You are expected to respect the dignity of all and to value differences among members of our academic community. Students clearly have the right to take reasoned exception and to voice opinions contrary to those offered by the instructor and/or other students (S.R. 6.1.2), but this should be done with respect. Equally, a faculty member has the right -- and the responsibility -- to ensure that all academic discourse occurs in a context characterized by respect and civility. Obviously, the accepted level of civility does not include attacks of a personal nature or statements denigrating another on the basis of race, sex, religion, sexual orientation, age, national/regional origin or other such irrelevant factors.

Professional preparation: Students are expected to demonstrate professional behavior that is ethical, respectful of the healthcare and other professions, demonstrates sensitivity to individuals, regardless of their gender, religion, race, or ethnicity. For specific information about behavioral expectations, students should refer to guidelines provided by their profession.

COURSE SCHEDULE:

Week	Activity
1	LECTURE - History of dentistry LECTURE - Dental and medical terminology
2	LECTURE - Introduction to the dentition - primary dentition LAB - Dental anatomy waxing exercise
3	LECTURE - Introduction to the dentition - permanent dentition LAB - Dental anatomy waxing exercise
4	LECTURE - Development of the Human Dentition/Occlusion LAB - Dental Anatomy waxing exercise
5	LECTURE - Development of the Human Dentition/Occlusion LAB - Dental Anatomy waxing exercise
6	LAB - Radiographic interpretation exercise - panoramic view LECTURE - Development of occlusion
7	LECTURE - Development of occlusion LAB - Radiographic interpretation exercise - lateral cephalometric view
8	EXAM 1 LECTURE - Periodontics, root structure and supporting tissues
9	LAB - Introduction to periodontal instrumentation CLINIC - Periodontics clinic observation
10	LECTURE - Cranial osteology and muscles of mastication LECTURE - Introduction to OMFS CLINIC - Oral and maxillofacial surgery observation
11	LECTURE - Oral diagnosis LECTURE - Restorative Dentistry LECTURE - Public Health Dentistry
12	CLINIC - Mission Clinic and/or Saturday Morning Clinic LECTURE - Dental Research
13	LECTURE - Introduction to Pediatric Dentistry CLINIC - Mission Clinic and/or Saturday Morning Clinic
14	LECTURE - Introduction to Endodontics CLINIC - Urgent care/restorative dentistry rotation LECTURE - Introduction to Orthodontics
15	CLINIC - Orthodontics observation LECTURE - The Profession of Dentistry LECTURE - Applying to Dental School
	FINAL EXAM