FLORIDA ATLANTIC
UNIVERSITY [*]

UGPC APPROVAL ______UFS APPROVAL ______ SCNS SUBMITTAL ______ CONFIRMED ______ BANNER POSTED ______ CATALOG: _____

Graduate Programs—COURSE CHANGE REQUEST

DEPARTMENT NAME: N/A	College of: Medicine
Course Prefix & Number: BMS 6634	CURRENT COURSE TITLE: Gastrointestinal, Hepatology & Nutrition

CHANGE(S) REQUESTED

SHOW "X" IN FRONT OF OPTION		s	HOW "X" IN FRONT OF OPTION	······································
CHANGE CREDITS FROM	то:		CHANGE PREFIX FROM	то:
CHANGE GRADING FROM REG	ULAR TO:	s/U	CHANGE COURSE NO. FROM	то:
CHANGE PREREQUISITES TO:			CHANGE TITLE TO:	
CHANGE MINIMUM GRADE TO:			CHANGE DESCRIPTION TO:	
CHANGE COREQUISITES TO:			CHANGE DESCRIPTION TO:	
CHANGE OTHER REGISTRATION CON	TROLS TO:			
OTHER				
CHANGES TO BE EFFECTIVE	: (TERM):		Attach syllabu changes to current co	지수는 것 같은 것 같은 것 같은 것 같이 많이 많이 없다.
Will the requested change(s) cause this other FAU course(s)? If yes, please list		overlap any	Any other departments and/or collection the change(s) must be consulted. I	eges that might be affected by List entities that have been
YES <u>NC</u>	• • •		consulted and attach written comm N/A	nents from each.
TERMINATE COURSE, EFFECTIVE	GIVE LAS	T TERM COURS	SE IS TO BE ACTIVE):	
Faculty Contact, Email, Complete Phone Number: Richard Greenwald, M.D; Professor of Clinical Biomedical Science BC-328D; 561-297-4487; rgreenw2@fau.edu				al Biomedical Science

SUPPORTING MATERIALS

SIGNATORES		SUITORING MATERIALS
Approved by:	Date:	Syllabus—must include all criteria as detailed in UGPC Guidelines.
Department Chair: Mar KD College Curriculum Chair: Cuo U. CTIQ. Su		Go to: http://graduate.fau.edu/gpc/ to access Guidelines and to download this form.
College Dean: MMSCD		
UGPC Chair:		Written Consent—required from all departments affected.
Dean of the Graduate College:		

Email this form and syllabus to <u>diamond@fau.edu</u> and eqirjo@fau.edu one week **before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

FAU COLLEGE OF MEDICINE

Syllabus :

1. Course title : Gastrointestinal, Hepatology & Nutrition

Course number: BMS 6634

Number of credit hours: 7

Lecture Hours:up to 8 hrs/week in classroom, unless otherwise specified.Small-group Hours:up to 6 hrs/week for PBL, location as assignedOther activity Hours:cumulative 6 hrs in small-group for Mini-case discussions

2. Course prerequisites:

Accepted for matriculation in the FAU College of Medicine.

3. Course logistics:

- a. term: Spring 2012
- b. not an online course
- c. Biomedical Science Building room BC-126, small group PBL rooms.

4. Instructor information:

Course Director:	Richard Greenwald, M.D Professor of Clinical Biomedical Science BC-328D
	561-297-4487
	rgreenw2@fau.edu

Course support:	Ms Mavis Brown
	Curriculum Coordinator
	BC-138
	561-297-0899
	mwbrown@fau.edu

Please note: Any official student communication from the director or curriculum coordinator will be sent via e-mail to students at their FAU e-mail addresses. *If students would like to meet with the course director, they must call or e-mail the course director to schedule an appointment.*

5. TA contact information:

N/A

6. Course description:

The purpose of the CMC Gastrointestinal, Hepatology and Nutrition Course is to teach the fundamentals of gastroenterology. The course uses an integrated approach to present the basic science

underpinning of gastrointestinal, liver and nutritional disorders. To achieve this goal, a combination of lectures, case-based presentations and problem-based learning (PBL) is used. The PBL sessions in the small-group setting use a set of GI disease models to focus students on the basic sciences, pathophysiology and diagnosis and a first approach to management. Lectures in the classroom setting are thematically related to the disease model and used to complement the PBL with additional key concepts.

7. Course objectives/student learning outcomes:

At the end of the course, medical students will be able to:

- Review normal anatomy, histology and physiology of the various organs of the GI tract
- Characterize the classification of diseases for each organ and identify specific diseases that involve multiple organs
- Correlate pertinent laboratory tests and describe the utility in the diagnosis of GI disease
- Discuss the natural history and associated pathologic findings of infections of the GI tract
- Describe the neoplastic diseases that affect the organs of the GI tract
- Characterize the radiologic studies that are important in the diagnosis of GI disease
- Evaluate abdominal pain and describe features that aid in a differential diagnosis
- Discuss the pathophysiologic mechanisms of poisoning and describe various therapeutic approaches
- Describe medications used to alleviate nausea

8. Course evaluation method:

Examination Policy:

<u>Exam Composition</u>: All examination questions will be multiple-choice. Clinical vignettes will be used for many questions, and images will be incorporated as appropriate. *Approximately* 1-2 questions per lecture hour, 1-2 questions per PBL case hour and 1-2 questions per minicases will be used. Exams will be delivered electronically via student laptops.

<u>During the exams</u>, students are required to follow the examination protocol presented by the proctors. No specific questions regarding an exam item will be answered during any exam.

Examination Scoring: Scoring will be based solely on the answers recorded by the student on their laptop computer. Miskeying of answers or omission of an answer will not be considered in grading a student's examination. Accuracy is the sole responsibility of the student.

Grades will be available via Blackboard in a timely fashion.

<u>Viewing the Examination</u>: All exams will be secure. Students can access a copy of the exam for review in the Office of Medical Education, Room BC-136.

Grading Policy:

The course grade is made up of two components (exams & mini-cases, and PBL). An unsatisfactory

grade for either of the two components will result in an unsatisfactory grade for the course

Component 1	
Exam 1	45 points
Exam 2	45 points
Mini-cases	10 points

- Three problem sets of short cases for the students to solve independently and outside of class. These problem sets are then discussed in three scheduled small-group sessions.
- Consists of independently done work handed in at the beginning of the session.
- Evaluation is based upon turning in the mini-cases and satisfactory completion as defined by the standards set forth by students in their class oath.

Component 2

PBL facilitators will provide narrative evaluation which will contain notations as to whether the student's academic and professional performance is on the level of "honors" (H), "high satisfactory" (HS), "satisfactory" (S), "marginally satisfactory" (MS), and "unsatisfactory" U. This will be based on the student's performance the following areas:

- Use of student's own knowledge base
- Knowledge acquisition/active learning
- Critical thinking/reasoning/problem-solving
- Teamwork/group communication and assessment

When a student obtains a "MS" or "U" on any examination, a letter is sent to the student asking them to contact the course director for assistance. The letter is copied to the student's file.

9. Course grading scale:

The grading scale for the course is as follows:

(H) Honors	= or>93% and (H) in PBL
(HS) High Satisfactory	85% - 92.99% (H) or (S) in PBL
(S) Satisfactory	=or>75% and (S) or (H) in PBL
(MS) Marginal Satisfactory	=or>75% and (MS) in PBL
	70%-74.99% and (H), (S) or (MS) in PBL
(U) Unsatisfactory	=or>70% and (U) in PBL
	<70% and (H), (S), (MS), or (U) in PBL

10. Policy on makeup tests, etc.

<u>Exam Administration</u>: All examinations will be administered in the Biomedical Sciences building on the dates and times documented in the examination schedule. A student must sit for all examinations as scheduled. A student must obtain permission for an excused absence from the course director and notify the Senior Associate Dean for Student Affairs prior to the time for sitting for a scheduled examination. In the event of a personal emergency, the course director and the Senior Associate Dean for Student Affairs prior as possible. Missed examinations will be

rescheduled at the discretion of the course director, at a time that does not interfere with other course work. Unexcused absences will result in a grade of zero (0) for the missed examination.

All absences from examinations should be documented by a PIR from the course director and will be communicated to the Office of Student Affairs. A record of excused and unexcused absences from examinations will be maintained by the Office of Student Affairs. A pattern of recurrent absences from examinations, whether excused or unexcused, will be reviewed by the MSPPSC and may result in a recommendation up to and including dismissal from the FAU medical Education Program. (See Student Rights and Responsibilities Handbook)

11. Special course requirements:

Attendance Policy:

The FAU faculty and administration agree that student attendance and participation in all scheduled learning sessions are important to students' academic and professional progress and ultimate success as physicians.

Attendance at the Monday/Wednesday/Friday small-group sessions and wrap-up is mandatory.

For an absence to be excused, a request must be made to the Course Director. Only a Course Director can excuse an absence. No missed work associated with a specific session can be made up without loss of credit for satisfactory completion unless an excused absence has been granted.

An excused absence from a small-group PBL session will be made up by the assignment of an additional learning issue to the student. An unexcused absence will result in the assignment of an additional learning objective for each absence, and a two point deduction from the PBL small group performance component of the final grade.

Repeated unexcused absences from required curricular activities may result in disciplinary action, up to and including dismissal from the FAU College of Medicine.

12. Classroom etiquette policy:

Students should be considerate of each other by switching his/her cell phone to vibrate during all teaching activities.

If a telephone call is of an emergency nature and must be answered during class, the student should excuse him/herself from the lecture hall before conversing.

Laptop computer use should be limited to viewing and recording lecture notes rather than checking email, playing or viewing other distracting websites. Students may be asked by faculty to turn off laptops during any session where group participation is required (such as PBL and wrap-up sessions).

13. Disability policy statement:

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for

Students with Disabilities (OSD) –in Boca Raton, SU 133 (561-297-3880)—and follow all OSD procedures.

14. Honor code policy:

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility.

The FAU Honor Code requires a faculty member, student, or staff member to notify an instructor when there is reason to believe an academic irregularity is occurring in a course. The instructor must pursue any reasonable allegation, taking action where appropriate. The following constitute academic irregularities:

1. The use of notes, books or assistance from or to other students while taking an examination or working on other assignments, unless specifically authorized by the instructor, are defined as acts of cheating.

2. The presentation of words or ideas from any other source as one's own is an act defined as plagiarism.

3. Other activities that interfere with the educational mission of the University.

For full details of the FAU Honor Code, see University Regulation 4.001 at <u>www.fau.edu/regulations/chapter4/4.001_Honor_Code.pdf</u>.

In addition to the FAU Honor Code, the FAU College of Medicine has adopted specific academic, professional and behavioral standards governing medical student conduct which the FAU COM faculty and administration believe are essential components of medical education and the development of medical students. The FAU COM academic, professional and behavioral standards are included in the COM Student Handbook.

15. Required texts/readings

The following are textbooks that students are expected to purchase for use in the course. All the textbooks listed below are available at the FAU Bookstore.

Title	Author(s)	Publisher
Handbook of Gastroenterology, 2 nd Edition	Yamada et al.	Lippincott Williams and Wilkins

Recommended Textbooks:

Title	Author	Publisher
Sleisenger and Fordtran's Gastrointestinal and Liver Disease, 8 th edition	Feldman, Friedman and Brandt	Saunders (Available through online access at the FAU Library)

The texts from prior year 1 courses remain of interest

16. Supplementary resources:

Web Resources:

Medline Dictionary, an online dictionary provided by the US National Library of Medicine and the National Institutes of Health. A potentially useful resource during the PBL small group sessions.

Aperio Microscope Images: These virtual microscope images, which can be accessed through the Blackboard site, via the "Handouts and Links" tab, can be found at: http://med.fau.edu/aperio.

The Internet Pathology Laboratory for Medical Education, which can also be accessed through the Blackboard site via the "Handouts and Links" tab, is a comprehensive learning tool. Individual PBL-based exercises will utilize this resource. In addition, the application contains useful anatomy, radiology, histology, and microbiology images and tutorials, in addition to thousands of general and systemic pathology images. Students and faculty alike may wish to utilize this resource for learning and teaching purposes.

GI Specific Resources:

Linus Pauling Institute – Micronutrient Research for Optimum Health http://lpi/oregonstate.edu/infocenter

The Micronutrient Information Center within this website provides detailed information on vitamins, minerals, other nutrients.

Department of Health and Human Services (HHS) and the Department of Agriculture (USDA) - The *Dietary Guidelines for Americans* have been published every 5 years since 1980. The Guidelines provide authoritative advice for people two years and older about how good dietary habits can promote health and reduce risk for major chronic diseases. They serve as the basis for Federal food and nutrition education programs. http://www.health.gov/dietaryguidelines/dga2005/document/

17. Web-based postings:

Students are encouraged to carry their laptop with them as much as possible in order to access resources, patient log and other resources.

Session handouts	Yes	Session Objectives	Yes	Quizzes	No
Required Activities	Yes	Grades	Yes	Exams	Delivered via laptop or pen and paper

18. Course topical outline:

Content outline:

Please refer to Blackboard for up-to-date information and session-related objectives and handouts.

Session Topic
GIHN Course Introduction
GI Structural Review
Gut motility
Gut Secretion
Esophagus: Altered Structure and Function
Gastritis and Peptic Ulcer Disease
Pediatric GI
Neoplasms of the Esophagus
Neoplasms of the Stomach
Gut Absorption
Enzymatic Digestion of Foodstuffs
Non-neoplastic Diseases of the Intestines
Colorectal neoplasia
Malabsorption and Steatorrhea
Infectious and Noninfectious Diarrhea
Vascular and Diverticular Diseases of the Intestines
Irritable Bowel Syndrome (IBS)
Diarrhea Mini-cases
Dietary Micronutrients and Supplements
Clinical Nutrition
Constipation and Anorectal Disorders
Gastrointestinal Bleeding
Geriatrics and the GI Tract
Nutrition Mini-cases
Liver Anatomy and Acinar Organization
Liver Cell Structure and Function
Bilirubin Metabolism and Jaundice
Gallbladder and Biliary Diseases
Acute and Chronic Pancreatitis
Pancreatic, Bile Duct and Gallbladder Neoplasia
Alcoholic and Non-alcoholic Fatty Liver Disease
Viral Hepatitis A-E
Hereditary and Metabolic Liver Diseases
Cholestatic Liver Disease
Autoimmune Liver Disease
Clinical Manifestations of End-Stage Liver Disease
Pathology of Chronic Liver Disease
Acute Liver Failure
Immunologic Basis of Liver Disease

Pediatric Liver Disease
Vascular Disorders of the Liver
Infections of the Liver
Pathology of Non-neoplastic Liver Disease
Pathology of Neoplastic Liver Disease
Liver Mini-cases

19. Study habits:

A major contribution to your learning is active engagement, which includes participation in the learning of other students and interaction with the instructors. Students are expected to be proactive and to access the Blackboard system to review items associated to individual sessions.

Learning in the field of medicine is a life-long endeavor that is not only necessary, but can and should be fun. One of the most important factors for learning is curiosity and sometimes, the best way to keep this curiosity stimulated is through our interaction with colleagues and peers. When learning in small groups, we have a chance to try to explain topics to each other, brainstorm solutions together, give each other constructive feedback, and support and validate each other. We encourage balancing studying alone with learning in small groups. It to important to develop a study routine to avoid "putting things off" and "cramming" and to minimize the stress we may add to our lives in that way.

20. Independent study time:

Independent Study Time allocated within the day time schedule is provided for students, on average about 9 hours per week.

Students are expected to use this time to further their learning. The time should be used for independent study or with peers. It is an opportunity to seek out faculty to interact with them outside the formal teaching setting. Since the PBL small-group format requires that students research learning objectives, the time may be used to prepare for the subsequent sessions. Finally, the time may used to work on assignments, problem-solving cases, off-campus visits or other tasks that are required by the courses.

Occasionally, some Independent Study Time sessions may be used for curriculum-related activities (e.g. standardized examinations): notice will be given as early as possible for these occasions.

21. Course and faculty evaluation:

FAU highly values the process of formal program evaluation and feedback. FAU students are required to complete all course evaluations and program evaluation surveys which are the Students Perception of Teaching (SPOT).

Grades and transcripts may be held for failure to submit required surveys. Evaluations should be constructive, to help improve individual faculty's teaching, and the content and format of the courses.

Moreover, the timely completion of evaluations at the level of undergraduate medical education assists students in developing the administrative and organizational skills required throughout their

academic and professional career. We appreciate your completing evaluations to help continue with improvement of the learning experiences and environment for all students.

22. Faculty

Lecturers (in alphabetical order):

Keith Brew, Ph.D. Professor Biomedical Science Room 341 561-297-0407 kbrew@fau.edu

Richard Greenwald, M.D. Visiting Professor Biomedical Science Room 328D 561-297-4487 rgreenw2@fau.edu

Morton Levitt, M.D. Clinical Professor Biomedical Science Room 338 561-297-0911 mlevitt3@fau.edu

Willis Paull, Ph.D. Professor Biomedical Science Room 339 561-297-1024 wpaull@fau.edu

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Julie Servoss, M.D., M.P.H. Assistant Professor of Medicine BC-225 561-297-4133 jservoss@fau.edu

Rui Tao, Ph.D. Assistant Professor Biomedical Science Room 327 561-297-0713 rtao@fau.edu

Community Lecturers

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Core Facilitators

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