

Handbook for Undergraduate

Teaching Associates

2009-2010

**Medical Sciences Program
Indiana University
Jordan Hall 104
Bloomington**

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SECTION I: PROGRAM GUIDELINES

A. DEFINITION OF AN UNDERGRADUATE TEACHING ASSOCIATE (UTA)

An Undergraduate Teaching Associate (UTA) in the Medical Sciences Program is a student who assists faculty, associate instructors, and laboratory directors with the teaching mission of the program. UTAs primarily help in teaching laboratories but also in other essential roles as specified for each course.

The UTA plays a critical role in creating a small class atmosphere in a large class. As a UTA you will have the opportunity to better understand how people learn while you develop your communication and leadership skills. Participation in this program is an award and as such is reserved for the truly outstanding undergraduate student.

B. ELIGIBILITY

To be eligible for this teaching internship in Medical Sciences, students should have junior or senior class standing (at least 60 credit hours completed) and have an overall GPA of at least 3.0. Exceptional freshman and sophomores may be considered as well. You may be enrolled in the course at the time of your application. A student must have completed a course before beginning work as a UTA for that course.

C. PROGRAM DIRECTOR

Rick Mynark, Ph.D.
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rmynark@indiana.edu

Shirley Braden
Administrative Secretary
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Jackie Cullison
Administrative Secretary
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D. APPLICATION PROCEDURE

An application form is included on the last page of this booklet. Completed applications should be returned to Jordan Hall 104 (Medical Sciences office). Applications can be submitted between 8:00am-4:30p.m., Monday-Friday.

2009-2010 APPLICATION DEADLINES

SPRING 2010 POSITIONS:

NOVEMBER 6TH, 2009

'10 SUMMER AND FALL POSITIONS:

APRIL 9TH, 2010

Applicants typically will be notified of awards by email within one month after the application deadline. At this time, those accepted to the program will be further advised about registration, scheduling and orientation.

A. COMPENSATION OPTION

If selected, you may choose one of the following two compensation options:

1. M499: Internship in Medical Sciences Instruction

This is a 3-credit hour course that will appear on your transcript as evidence that you were a Medical Sciences UTA. UTAs that perform an excellent job typically receive an "A" for their services. Note that you do NOT have to do additional work for this "course," merely do a good job as a UTA. UTAs may take this course up to two times for credit. If you choose this option, we will need to authorize you to enroll in M499.

2. Stipend: \$750.00

Students who choose this option will receive monthly paychecks over the semester they teach. The monthly paychecks will total \$750 (before taxes). Prior to the semester of teaching, students must go to Jordan Hall 105 and fill out a W-4 tax form and an I-9 form (a form which indicates you are legally allowed to work in the U.S. – you will be required to provide either a passport, or a driver's license and social security card. For further information about the I-9 form and what documents may be used to establish employment identity, please refer to the sample I-9 form found at:
<http://www.uscis.gov/files/form/i-9.pdf>)

B. A215 AND P215 UTA TRAINING WORKSHOPS

A training workshop is held each semester to familiarize A215 and P215 UTAs with their responsibilities and the laboratory teaching environment. This workshop is held prior to the start of classes each semester and it is typically held in the undergraduate teaching laboratories in the Classroom Office Building. UTAs will be notified of the exact time and location at least one week prior to the actual meeting. Attendance at this orientation is **REQUIRED**.

C. PARTICIPATION OF UTAS

Undergraduate teaching assistants make a vital contribution to the instruction of students enrolled in medical sciences classes. Students chosen as UTAs have done well in one or more of these courses and now have the chance to share their grasp of the subject with others. As partners in the process of education, we appreciate UTA's interest and enthusiasm for the courses, and we're counting on their motivation and initiative to maintain and improve the course standards.

There are a few fundamental points that guide all who teach.

The education of students is one of the main reasons for our presence here. Throughout the semester, UTAs work with many students - sometimes in groups and sometimes individually. Treat them with the respect every person deserves. Observe confidentiality with regard to conversation, class performance and grades.

The process of teaching depends on sustained effort to carry out many duties and meet repeated deadlines. As basic as it may seem, one of the UTAs most important contributions is a dependable presence in scheduled sessions. A second basic contribution is the ability to finish assigned tasks.

We're all in this together. Realize that as part of a teaching group UTAs have a lot of support around them. Lab Directors, AIs and faculty are available to help. We hope that when UTAs think about their time as teaching assistants, they believe they gained much more than a stipend or a few credit hours from the experience.

SECTION II: POSITION DESCRIPTIONS

ANATOMY A215: BASIC HUMAN ANATOMY (5 CR.) (OFFERED FALL, SPRING, SUMMER II)

A. COURSE DESCRIPTION

This course presents a systemic approach to the study of the human body. Lecture presentation begins with an introduction to anatomical terminology and an overview of cellular processes and tissue classification. Students learn the gross and microscopic anatomy of the following systems: skeletal, muscular, integumentary, nervous, circulatory, respiratory, digestive, urinary, and reproductive. The laboratory component of the course reinforces lecture concepts through the use of models, histological slides, and cadaver demonstration. Lectures meet three times weekly. Students also attend two 2-hr labs per week. (Note: during Summer II, lectures are presented daily and students attend a 2-hr lab four times per week.)

B. SUPERVISION

Course Directors:

Valerie Dean O'Loughlin
Jordan Hall 010A
855-7723 or 855-0616
vdean@indiana.edu

Steve Dougherty
Jordan Hall 003
855-9742 or 855-0616
gdougher@indiana.edu

Alison Doubleday
Jordan Hall 002
856-1063 or 855-0616
almfrenc@indiana.edu

Course Coordinator and Laboratory Director:

Jim Heersma
Classroom Office Building 126
855-0948
jheersma@indiana.edu

Associate Instructors:

Two AIs per lab section will serve as mentors for the UTA.

C. RESPONSIBILITIES OF THE UTA

The responsibilities of the UTA are primarily in the laboratory portion of the course. In each lab, the UTA will assist two Associate Instructors (AIs). Each UTA is assigned one laboratory section for the semester. Lab sections meet for two hours, two days per week (total weekly laboratory time = 4 hours). The responsibilities of an Undergraduate Teaching Associate include the following:

1. Answering students' questions about appropriate lab topics during scheduled lab periods, and actively assisting students while there to learn the material. However, UTAs should not assist students outside the laboratory setting.
2. Presenting a 10-20 minute introduction on the appropriate lab topics for four labs per semester, as arranged in advance with the AIs.
3. Assisting the Lab Director during one of the 50 minute open labs each time they are scheduled (typically four times per semester).
4. Being present and assisting at a weekend 2-hr lab review session (four weekend review sessions per semester). The AIs will be present as well to assist students.
5. Assisting in checking lab materials at the end of each lab period and each review session.
6. Proctoring all A215 lecture exams. The first three exams are held at 4:40pm on Fridays (for the fall and spring semesters). The date and time of the final exam during finals week varies from semester to semester. At least one of the two AIs will be present as well to help proctor the exam.
7. Also, to avoid possible conflicts of interest, UTAs must not be present for setting up or proctoring lab exams, and will not participate in grading them.

We do not want a conflict of interest to arise if a friend or relative of a UTA is in his/her assigned lab. Thus, UTAs will not be responsible for setting up, proctoring, and grading lab exams.

There may be the possibility that an exceptional applicant would be selected to assist the course director with the lecture component of the course. This lecture UTA must attend lecture during regular lecture times, and be available for three hours (office hours) each week. Lecture UTAs work closely with the course director. Please indicate on your application if you also would like to be considered for a lecture UTA position.

D. EVALUATION OF PERFORMANCE

Performance evaluation is an important part of the instructional process. Evaluation of UTA performance typically will be conducted twice during each semester. This evaluation will be conducted by the associate instructors.

The criteria used to evaluate UTA performance are outlined below. The first mid-semester evaluation for the UTA will provide feedback regarding performance and emphasize the areas where improvement may be needed. The evaluation at the end of the semester will be one of several criteria used to assess the UTAs overall performance.

AI's EVALUATION OF UTA PERFORMANCE

PERFORMANCE CRITERIA	NEEDS IMPROVEMENT	SATISFACTORY	EXCEPTIONAL
ATTENDANCE	> 2 days missed	1-2 days missed	0 days missed
WILLINGNESS TO WORK	just stands there and lets the AI do the work	will help if asked	assists students, peers, and superiors without being asked
ATTITUDE	"I don't care, I don't want to be here"	"I'm here, and I'll just do what I have to do"	"I'm glad to be here and I'll encourage student interaction"
MOTIVATION	doesn't care about teaching	shows motivation occasionally	displays motivation on a regular basis
WORK WITH INDIVIDUALS	hesitates to interact with students on an individual basis	will answer questions for individuals	provides guidance and recommends learning strategies on an individual basis
WORK WITH GROUPS	hesitates to interact with students in a group	will answer questions for individuals in a group	will direct and lead groups; involves all students in the group
PRESENTATION	presentation is not clear and organized	organized, but small problems (e.g., too fast, too slow, difficult to hear, etc.)	organized, clear, enthusiastic, paced well, no problems
PREPARATION	prepared on occasion	just covers the basics	always prepared and ready to go one step farther
FOLLOWS INSTRUCTIONS	has to be told repeatedly	redirected on occasion	needs no redirection
INITIATIVE	needs to be told to do everything	occasionally needs to be told to do something	a self-starter, looks for something to do
ENTHUSIASM	pessimistic & complaining	mild enthusiasm	very enthusiastic
RESPECT OF STUDENT	openly criticizes or speaks negatively of students	keeps comments and opinions to themselves	always respectful, and will even discuss strategies to work with all students
CONFIDENTIALITY	discusses confidential matters with peers	always conscious of and never abusive of this right	always conscious of and never abusive of this right
COMPLETES TASKS	doesn't complete tasks	completes required tasks, but may be late	completes all required tasks on time
TOTALS			

UTA's Name: _____ AI's Name: _____ Date: _____

PHYSIOLOGY P215: BASIC HUMAN PHYSIOLOGY (5 CR.)
(OFFERED FALL, SPRING, SUMMER II)

A. COURSE DESCRIPTION

A systemic approach to the study of human body function. The course assumes a working knowledge of the structural components of the body and appropriate terminology. Presentation begins with the communication systems of the body, progressing to coordinated motion and onto defense, transport, delivery, and balance of nutrients, water and electrolytes that comprise essential metabolic activity and maintain homeostasis. The laboratory emphasizes application of material presented during the lecture portion and is a required part of this course. Students enrolled in P215 have four 50-minute lectures and one 2-hr. laboratory per week.

B. SUPERVISION

Course Directors:

Mark Ronan
Jordan Hall 010B
855-8411
mronan@indiana.edu

Rick Mynark
Jordan Hall 004
855-9067
rmynark@indiana.edu

Bruce Martin
Jordan Hall 200
855-0982
martin1@indiana.edu

Course Coordinators and Laboratory Directors:

Jw Ramsey
C2, room 207
855-4774 or 855-0616
ramseyj@indiana.edu

Andrew Notebaert
Jordan Hall 010
855-3788
anotebae@iupui.edu

Associate Instructors:

One AI per lab section will serve as a mentor for the UTA.

C. RESPONSIBILITIES OF THE UTA

1. The responsibilities of the UTA are primarily in the laboratory portion of the course and parallel the responsibilities of an Associate Instructor (AI). Each UTA is assigned two laboratory sections for the semester. Each lab section meets for two hours weekly. The UTAs

consult with their AIs each week to prepare for the lab sessions. The primary role of a UTA is to assist the AI in teaching of lab concepts and procedures by interacting with students and by acting as a helpful resource. In addition, UTAs participate in the preparation and maintenance of laboratory setups, the grading of assignments and the proctoring of exams. Exams are given on three Fridays at 3:30-4:50pm throughout the semester. The UTAs are not expected to develop instructional material for lab or discussion sessions.

Laboratory manuals will be provided and textbooks may be signed out for the semester from Jordan Hall 104.

D. EVALUATION OF PERFORMANCE

UTAs are expected to treat their responsibilities with P215 as they would for any course if they have signed up for credit hours. A grade will be assigned at the end of the session by the Lab Director. It is assumed that all UTAs are expecting an A and will perform accordingly. Those students receiving a stipend as compensation are held to the same standards of responsibility and performance. Absences without prior notification to the Lab Director will result in stipend or grade penalties. The Lab Director will be in weekly contact with UTAs via orientation for each individual lab and notifies UTAs of exam schedules when assistance with proctoring is needed. Evaluation of UTAs is a continuous process by the Lab Director via observation and feedback from the AIs working with particular UTAs. Deficiencies and performance concerns will be noted via private personal meetings with the Lab Director. Reciprocal concerns from UTAs are always welcomed.

ANATOMY A464: HUMAN TISSUE BIOLOGY (4 CR.)
(OFFERED SPRING)

A. COURSE DESCRIPTION

This course analyzes the structure and activities of the cells that make up the human body. The course begins with an overview of the animal cell, concentrating on aspects of cellular morphology important for biochemical functions. Fundamental types of distinct multicellular tissues, including connective, epithelial, muscular, nervous tissues, are then described at the light and electron microscopic level, emphasizing the functional significance of the structural features. After the basic tissue types are understood, the various organ systems of the body are discussed, again primarily with regard to how their tissue composition and arrangement mediate their diverse functions. Each lecture is followed by a laboratory session devoted to the same topic in which students examine and study the relevant cells, tissues and organs using the light microscope electron micrograph preparations. There are two lectures and two 2-hour labs per week.

B. SUPERVISION

Course Director

Anthony L. Mescher
Jordan Hall 202
855-4693
mescher@indiana.edu

Laboratory Director

Sue Childress
Jordan Hall 201
855-4164
srichar@indiana.edu

Associate Instructors

One graduate student AI per lab section, in addition to the Course Director and Lab Director, will serve as a mentor for the UTA.

C. RESPONSIBILITIES OF THE UTA

Responsibilities of the UTA are primarily in the laboratory portion of the course. In each lab the UTA will assist the AI and other instructors. Each UTA is assigned one lab section for the semester. Lab sections meet for two hours, two days per week (total time in the laboratory per week is four hours). The responsibilities of the UTA include the following:

1. Presenting a 10-15 minute introduction to the topic for three labs per semester.

2. Helping to answer students' questions during the course of each lab all semester.
3. Assisting in microscope setups for each of the three laboratory practical exams.
4. Assisting the Lab Director in maintenance of the slide collections.
5. Assisting the AI at review sessions prior to the laboratory exams.
6. Assisting in proctoring lecture exams.

To preclude conflicts of interest involving friends or relatives in the class, the UTA will not have responsibility for proctoring or grading the lab exams.

All UTAs will be provided with a laboratory guide and may sign out the text/atlas for the course from the Medical Sciences Office (Jordan Hall 104).

D. **EVALUATION OF PERFORMANCE**

UTAs in A464 are provided informal feedback regarding their work throughout the course from both the AI and the Course Director(s), with more complete but still informal feedback given at the end of the course. Formal evaluations of UTAs by the students are not conducted. A written assessment or evaluation of the UTA's performance will be provided upon request to the AI or Course Director(s).

M216: MEDICAL SCIENCE OF PSYCHOACTIVE DRUGS (4 CR.)
(OFFERED FALL AND SPRING)

A. COURSE DESCRIPTION

Psychoactive drugs pervade modern societies, yet few understand how they work, why they are so potent, and how they affect all levels of the body. This course examines how these drugs act both within the brain and throughout the rest of the body. We learn why these drugs can sometimes cause addiction, why addiction can cause disease both inside and outside the brain, and why other psychoactive compounds can instead cure disease without serious negative effects on the body. The course presents scientific evidence about these drugs in an evenhanded manner. The class uses a range of active learning strategies, and emphasizes “soft” skills such as work ethic, people skills, and discussion participation, in addition to “hard” skills such as information accumulation.

B. SUPERVISION

Course Director

Bruce Martin

Jordan Hall 200

855-0982

martin1@indiana.edu

C. RESPONSIBILITIES OF THE UTA

The responsibilities of the UTA vary according to the learning strategies in use and the skills and interest of the person chosen as UTA. The various duties that might be involved include these assigned during the current semester:

1. Attendance at every lecture is required (two 75-min sessions each week), for participation in discussion, special assignments to work with selected students, and to grade and disseminate written materials.
2. Grading of class assignments outside of class, including selection of “winners” of the daily homework competition.
3. Writing one test question during or after each lecture.
4. Evaluating test questions generated by students in class, and choosing one question to be placed in the upcoming exam.
5. Providing office hours and a review session in the last few days before

each examination.

6. Taking notes during each lecture, and then providing copies of these notes to students who miss class with excused absences.

7. In some past semesters, the UTA has handled the gradebook of daily assignments, and provided this gradebook at regular, twice-weekly intervals to the instructor.

D. **EVALUATION OF PERFORMANCE**

UTAs are provided informal feedback regarding their work throughout the course from the Course Director, with more complete but still informal feedback given at the end of the course. Formal evaluations of UTAs by the students are not conducted. A written assessment or evaluation of the UTA's performance will be provided upon request to the Course Director.

SECTION III: GUIDELINES FOR UTAS

UTA CODE OF ETHICS

UTAs must never discriminate against students on the basis of race, gender, religion, age, physical disability, national origin, political view, sexual orientation, previous performance in the course, or any other criterion. Treat all students equally and fairly. UTAs must never show favoritism to students on the basis of race, gender, personal appearance, living group affiliation, or any other criterion.

UTAs must respect each student's individuality and innately different approaches to life and problem solving. There are many ways to solve a problem; you are encouraged to share what works for you, but don't try to force your style onto students.

UTAs must respect each student's sense of personal worth and refrain from statements or behaviors that belittle others. Never make negative or derogatory comments about students either inside or outside the classroom.

UTAs must keep all information about their students and student performances confidential. Teachers have a moral and legal obligation to their students to keep this information confidential. This includes grades, answers to problems, personal discussions, and anything else that might be sensitive.

UTAs must never provide early access to examination materials to any student for any reason.

Behavior unbecoming of a UTA will result in appropriate disciplinary action. This disciplinary action includes, but is not limited to, receiving a failing grade for M499 or forfeiture of the scholarship/stipend.

A. TEACHING TIPS

Greet students in courteous and friendly fashion, both inside and outside the classroom.

Give sincere positive reinforcement whenever possible. Positive comments do more than anything else to spur students to higher levels of achievement.

Help students develop their own solutions to problems or answers to questions, rather than simply showing them a solution. It will help them little to watch you do it; it will help them a lot if they do it themselves.

Encourage students to talk to each other, working out problems together when they

cannot solve them alone. When they can solve problems alone, encourage them to check their solutions with others.

If you don't know the answer to a question, say so, for example, "I don't know, but let's find out." If you find the answer, and help your students find the answer, you encourage scientific exploration and collaboration.

Be prepared! Your students will not be impressed if you show up unprepared for your sessions.

Plan ahead and show up for all obligations. If you have an unavoidable conflict, arrange in advance for another UTA to substitute, as by swapping times.

Remember that while your goal is to help students learn the course material, you are also teaching them how to study and how to learn. If they learn how to work independently in this course, they will be able to succeed in later courses.

Lastly, discourage direct questions about what will be on the exam. Remind students that you are there to help them gain understanding of concepts presented in the course, not to give them information about exams.

MEDICAL SCIENCES UNDERGRADUATE TEACHING ASSOCIATE APPLICATION

Application for: A215 P215 A464 M216

Semester: Fall Spring Summer II (submit a separate application for each semester)

Name: _____

I.D. #: _____ School/College: _____

Class Standing: Freshman Sophomore Junior Senior Other

Major: _____ GPA: Cumulative _____ Science: _____

Course Taken: A215 P215 A464 M216

The Semester & Year Enrolled: _____

Grade Earned/Earning: _____

A215 Applicants ONLY: Would you like to be considered for a UTA lecture position? Yes No
(NOTE: You must be able to attend the lecture in order to be considered.)

Local Address: _____

Permanent Address: _____

Phone: _____ (Local) _____ (Home)

Email: _____

1) List in order of preference (first to last) your choices of lab sections that definitely fit your schedule (please refer to a Schedule of Classes or OneStart for a listing of lab sections and times). DO NOT exaggerate your availability! You MUST be able to attend EVERY section you apply for. If your schedule changes in a way that affects these choices, PLEASE update this application.

Preferred Lab Section Numbers: _____

YOU ALSO MUST ATTACH TO THIS APPLICATION FORM TYPED COPIES OF THE FOLLOWING:

- 2) A Personal Statement: (This statement should mention how you believe this particular opportunity will assist you with your academic and/or career objectives. You should further discuss how you think you would be able to assist with and enhance the educational experiences of the students in the course).
- 3) Resume A good personal statement addresses these points and is about 1 page in length.
- 4) Current IU Transcript (unofficial student copies from OneStart are acceptable)
- 5) References: (Provide the name, address and phone number of two individuals who could address your scholastic and work ethic). We do **NOT** need letters of recommendation from your references.)

I HAVE READ ABOUT, UNDERSTAND, AND WILL BE ABLE TO CARRY OUT ALL RESPONSIBILITIES OF THE POSITION(S) FOR WHICH I AM APPLYING.

SIGNED: _____, DATE _____

(RETURN COMPLETED APPLICATION TO JORDAN HALL 104)