

# ***BE PROACTIVE!***

## ***JUMP-START YOUR HEALTH CARE PROFESSIONS EDUCATION PREPARE YOURSELF FOR CLINICIAN SHADOWING***

**The Stony Brook University Online Course, BCP 405, 'Pharmacology to Pharmacy'**

<http://sb.cc.stonybrook.edu/bulletin/current/courses/bcp/>

(Scroll down to 'BCP 405')



**INTRODUCTION:** This course, offered exclusively online, is designed for undergraduates interested in health care (either basic biomedical science-oriented or clinical). After description and demonstration of common medical procedures, the class introduces many aspects of clinical pharmacology with presentations of clinical vignettes and case discussions, but is geared toward non-clinicians. The interprofessional course faculty includes physicians, scientists, an educator, an advanced practice nurse, and a hospital pharmacist. Students have the opportunity to ask questions directly through online chats.

***The course is offered throughout the year in semester format (twice in the summer [imminent], once each in the fall, winter and spring [just finished]).*** The course is valued at 3 credits, can only be taken for credit once, counts toward the SUNY Stony Brook bachelor's degree and satisfies specific SBU graduation requirements to "Prepare for Life-long Learning, Evaluate and Synthesize Researched Information (SBC-ESI)."

**GRADING/COURSE FORMAT:** Grades are based on student performance on fact-based quizzes offered frequently (7-15 times) throughout the course and on an equal number of formal online discussions with expert Stony Brook faculty who have broad experience as physicians, biomedical scientists, advanced practice nurses, pharmacists and educators. Each quiz is 5-10 questions in length, and like all other aspects of the course, is administered online and in an 'open-book' format. Graded discussions are formal, involving questions posed by the faculty. After completing each session, students are guided to apply this newfound knowledge within clinical scenarios. Interactions with course faculty not only provide opportunities to learn and apply this material but also to network with professionals working in an academic medical center.



Topics covered include 1) hospital culture and etiquette; 2) disease manifestation/patient-care simulation, both with high-tech mannequins and live models; 3) procedure demonstrations including intravenous line placement, lumbar puncture (spinal tap), nasogastric (feeding) tube placement, and endotracheal intubation and airway management; 4) drug development and regulatory approval; 5) research and biomedical ethics; 6) pharmacy practice, both in the hospital and in the community; 7) drugs in society as well as in the lay press; and 8) modern pharmacokinetics, pharmacodynamics and pharmacogenomics.



Students completing this course have been uniformly enthusiastic. Representative responses to "What was valuable about this course?" include: 1) "very informative, prepares you for the health sciences;" 2) "I found the course very interesting. It explained things in an easy and clear way. I was able to learn the material easily while working and commuting full time;" and 3) "From this class, I personally gained so much medical knowledge and even the laws and regulations behind the scenes. Whenever my co-workers don't feel well or something hurts, they always come to me with questions because they knew I took this class along with anatomy because I would be studying during my shift. I personally gained, honestly, an epiphany of what I wanted to do with my life, FINALLY!"

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## ***Additional Student Comments*** ***(Spring, 2016)***

"Everything about this course was great. I have taken quite a few online classes and I regret it everytime because I find the set up difficult or I find that it is hard to follow along. Usually I feel like you basically have to teach yourself, but this class was above and beyond my expectations. The set up was great and very straight-forward. The professors were very interactive and helpful. Along with that, they were easy to get a hold of if needed, which is great and can sometimes be hard to do with online classes.

"I think taking this class will help me succeed once I am in a nursing program because of the health care knowledge I gained...

"I appreciated how organized this course is and that it was online.

"There was nothing specifically that was bad, in my opinion. I think every lecture was useful and relevant.

"This is definitely one of the top/favorite courses I have taken at Stony Brook. I wish there were more like it...

"Before this semester I hadn't taken any on line courses, but after taking this course, I can definitely see myself taking more classes on line.

"The single best feature of the course would have been the pharmacokinetics/pharmacodynamic lecture since it was most applicable to my major as well as my work as a pharmacy technician. I could actually connect what I learned in the pharmacy with what I learned in this course.

"Overall I gained valuable information concerning drug effects, drug discovery, and aspects about pharmacy. I signed up because I felt that it would be beneficial to me as a pre-veterinary student who currently works in an animal hospital... I was able to connect the things learned in this course to my personal interests in medicine and find connections between what I see at work (vocabulary, drug information, technical skills etc) and being able to expand my knowledge by bringing together academics and real world experiences to have each reinforce the other.

"I think what I personally gained from this course is that I definitely want to become a doctor, and later on, a surgeon. This course simply enhanced my passion to learn more about the medical field.

"I gained a lot of basic knowledge in modern medical procedures and a fundamental understanding of how hospital and pharmacy works.

"From this course I personally gained a respect for the teamwork that has to be exhibited in the hospital daily to ensure the patients receive the best care.

"There were many things that were good about this course... The single best feature of this course was the fact that it was offered online, which allowed...me to take the course as I was away this semester.

"I truly enjoyed this class and if there were a part 2 would definitely enroll in it.

"The course was VERY informative. I signed up for this course because I am a psychology major and wanted to see the medical side of things before I went on to a Master's Degree that wasn't medical based. I gained knowledge...I actually got an insight of the hospital. My favorite part was learning about dosages and toxicity.

"I am pre-medicine and was looking for a way to learn more about the medical field, pharmacology, and common medical procedures. I personally gained a lot of knowledge about drugs and how they work, and how to work out dosages such as using the therapeutic window. I also learned quite a bit more about laws pertaining to medicine than I thought I would, which I also appreciated.

"I signed up for this course because I am currently trying to decide between pursuing an MD or a PhD and was hoping to learn more about pharmacology. Thanks for a great class!

"I enjoyed the discussion posts. I think they really helped me solidify my knowledge of the material by having a back and forth with the professor. It felt like it was a very one on one experience.

"The fact that this was an online class caught my attention and I'm shocked at the amount of information I retained from the class. Job well done as far as online classes go. Thanks for everything!"

"I loved this class... I definitely think this is an excellent course for pre-med and health students... The best feature of this class was that it is online.

"I am SO glad that I had the opportunity to take this class, and that I decided to take it. I will definitely recommend this to anyone."

### ***(Summer, 2016)***

"I just wanted to express to you how much I enjoyed the course over the summer. I learned so much information which intrigued and excited me to begin an education and career in the medical field. After taking this course, I can't wait to be able to have some hands on experience.

"I really liked the extra videos with the dummies and also at the end where they ran through some medical scenarios. I also thought the lectures in general were all well put together and easy to follow.

"What I really enjoyed about the course was having the exposure to several different medical fields in an in depth and thorough manner. I thought that the weekly discussions really attributed to a positive experience since I was able to read other opinions on the same topics I was reading about. There were times when I would have one response to the question but looking at my classmates' responses opened my eyes to different possibilities. The best feature in the course was the case study discussion. I really appreciated applying what we learned to real life scenarios.

"I enjoyed taking this course over the summer. The best thing about this course were all the lessons that were posted for us. They were all very detailed and easy to understand. What I liked was the fact that each faculty that was involved in the course had the chance to teach us lessons. The videos of lumbar puncture and IV lines were very beneficial. I am a visual learner and it is easier for me to learn and retain something when I visually see it. The single best thing were the discussions posts. It was good that we got to use critical thinking when answering the discussion posts.

"The amount of basic clinical information dispensed is admirable considering it's geared to undergraduates. It was able to cover a broad variety of topics easily.

"This course was great because I could plan out when I would spend time working on it, and I could learn at my pace. This made it a lot more enjoyable and I feel like I learned a lot better than this way. The single best feature was the discussion. I really liked the discussion questions because they didn't just ask you to regurgitate information; they really required you to think about what you learned. I really appreciated that.

"The course covered many interesting topics such as the basics of doing a differential diagnosis and the available tests to that can narrow down the various possible causes. The single best feature of this course is the fact that there were a variety of faculty from various medical fields involved in the lectures.

"There are many good things I found about the course. Overall, I really enjoy how the course was managed and how it progressed over the summer. I found that the structure of the classes and lectures were very well done and informative. The overall pacing of the course and flexibility of assignments were also very good aspects of the course. The course progressed at a good speed which did not feel overwhelming or confusing.

"It was an amazing class that was very informative and well done.

"The single best feature was that the course load was do-able. People are always afraid to take online classes because it means that you have to do discussion posts and it might be a big commitment. I felt the material was fair as well as the requirements.

"What I really liked about this course was that it gave you a better view and understanding of what medicine is and what actually happens in a medical environment. Not many courses allow students to actually see the application of their science knowledge and connect it to medicine other than going outside and seeking experience in hospitals. This course helped me see the connection with undergraduate pre-med courses and actual medicine.

“Everything was FANTASTIC about this course! I loved it. It was honestly the best class I have taken. So much that is relevant to my future career. The best feature was the syllabus and how the course ran.

Nothing was bad about this course...

“I'm really grateful that this course was offered online. The most beneficial feature in this regard would have to reflect upon how I was able to hit the "pause" button on my work - whether it be a quiz or a draft - if I needed to. It made me feel more comfortable with the pacing of the work given it's summer and I have other engagements to attend to. I didn't ever feel like I had to sit down and do everything at once unless I wanted to.”

**(Fall, 2016)**

“BEST FEATURE: Interactive discussions in the “weekly post” with faculty members in charge of leading the particular presentation. It is quite often tempting to answer a question with the “obvious” solution, i.e. answering “what, when, and where.” If we fell into that trap, the faculty member(s) would challenge us to dig deeper: that is to say, “how, or why” did we reach a particular solution? This is quite contrary to my “classical” biology/biochemistry course experience at the University where answers are given credit in the “all or none” fashion – i.e. answering multiple choice questions on the basis of rote memorization.

“I always had both an outside and academic interest in programming and computational methods. The particular discussions at the end of the course (drug design and pharmacogenomics) introduced ways in which I could apply computing to the rapidly evolving field of biologics. Whether I decide to pursue medical or graduate school (or perhaps a combination of both or other degrees) in the future, I can certainly work and build upon the ideas set upon by the faculty of this course – and to this I say thanks very much!

“I really liked how the course was centered around all aspects of pharmacology and medicine along with current events in the field. From the very beginning we were introduced to HIPAA (Health Insurance Portability and Accountability Act) which addresses the privacy and security of health care information and it aims to protect health information. With the introduction of this topic, I liked how we were provided with different scenarios in the lecture to quiz ourselves to see if there was a HIPAA violation and what should be done to handle the situation. From there we were introduced to basic aspects of clinical medicine, which was my favorite section being that the lecture stressed key points that needed to be obtained from a patient history. I appreciated the different clinical scenarios presented regarding chest pain and its possible causes, whether it be gastrointestinal, muscular or of cardiac origin. Following the vignettes I liked how different clinical tests for chest pain were discussed like EKG, biochemical markers (CK-MB) for MI, etc. Overall the lectures were presented very well and the material was interesting and provided great exposure for students wanting to pursue medical school, PA school, nursing or any other health-related profession.

“Some of the features I liked about this course include no exams, interesting material and effective lecturers. Although this was an online class, I was still able to learn a great amount of material regarding medicine and health science. I found a lot of the material to be very interesting and useful for my future career in the pharmaceutical science field.

“The single best feature about this course was the amount of material that I was provided with, without buying a textbook. If I ever had future questions in regards to pharmacy, I would just simply need to look back at the material that I received. I personally believe that the grading was a little unfair, because there were many professors who were grading. It was hard for me to adjust to each professor and their grading style. I would love to have an opportunity to go back and fix my discussions if I could.

“This course was very informative. The course integrated a lot of information without it being overwhelming or confusing. The professors all gave very good explanations and showed us how to demonstrate several procedures, which I truly enjoyed. For this course I can honestly say there was not a bad feature.

“The best feature of this course is the clear instructions. Online courses may be confusing because everything is virtual and there is no professor standing in front of you telling you what to do. Fortunately, Professor Fisher was extremely responsive and made numerous announcements on Blackboard. Professor Fisher made this upper level, critically engaging course, do-able.

“As a non-pharmacology major, I found the discussions challenging and it was hard when I did not score highly. Other than my own personal struggle, the course itself had nothing negative.

“I signed up to take this course because I needed to fulfill an SBC [requirement]. My friend had previously taken this class and she highly recommended it to me. She said I did not have to be a pharmacology major to do well in this course.

“I very much so enjoyed this course and what was taught to us. I believed that I learned a lot and it helped to bring my medical and pharmacy background together, which was very interesting for me. I enjoyed the pace of the class, that it had the potential to be a crazy difficult class, but the teachers properly taught it at a good and effective pace.

“I gained knowledge and a different form of understanding for medicine. I now look at it with a different perspective, and for me that is super cool and interesting to have a class give you a different outlook on your favorite thing in life.

“This course was good because it teaches a lot about working in a hospital, preparing you for if you want to work in a hospital. It taught a lot about what goes on behind the scenes of hospitals, pharmacies, etc as well as things like how a drug becomes a drug. The session transcripts, though sometimes not entirely accurate, were very helpful for finding the specific information I was looking for from a session. The best feature was probably how interactive the instructors were and how willing they were to help the students.

“Sometimes the quizzes and very rarely the discussion board posts felt like they required outside information, which didn't seem to fit in with the purpose of the course. The grading for the discussion board posts could feel unfair at times, when forgetting a small detail deducts two points. It could also be a little difficult going through the sessions where there wasn't a transcript, since you would have to go through slide by slide to review, though that probably couldn't be helped. There wasn't much that was bad about this course, and there wasn't really a single worst feature.

“I signed up to take this course because I was interested in pharmacology, and because this course provides upper division credit. Also, since it was an online course, it worked better with my schedule, since I didn't have to fit a specific time into my schedule to go and attend class.

“I would say the most valuable thing I gained from this course was how it helped prepare for a field where I would work in a hospital or pharmacy. It helps me feel more confident going forward that I would have somewhat of a clue what I'm doing if I were to work in a hospital or pharmacy in the future.

“In my personal point of view, what is good this course is its simplicity and straightforwardness. The element of the course which is contained in the class syllabus is simple, relevant, easy to grasp and understand. The course objectives and the course goals are SMART. They are realistic, measurable, attainable and time-bounded. These are important in making sure that the students are getting the best education possible to help them become a quality service provider. I like the uncomplicated course tools that are extremely user friendly. I can navigate through the course without difficulty.”

### ***(Winter, 2017)***

I liked this course because instead of just learning about general complications, diagnoses, and situations, we learned about specific cases. The discussion boards allowed me to perform research about a specific diagnosis (example: the GERD discussion board) and learn about treatments for common diseases.

I thought the majority of the quiz questions were straight forward but at times, it seemed like I could argue more than one correct answer.

I signed up to take this course because I have a passion for the sciences. Pharmacy is something that personally interests me, even if it's not necessarily what I intend to do.

I gained knowledge on specific diagnoses. This is especially interesting to me because I feel more confident speaking with physicians on topics that I am interested in.



I really enjoyed taking this course. I was able to learn a variety of procedures and information about the basics of pharmacology. The single best feature of this course for me was the informative lecture slides. Not only were the actually slides helpful but as well as the transcripts.

This class was very well organized and straight forward in the syllabus. The only feature that I found to be most troublesome for me were the quizzes. Often times I would find myself spending more time on the quizzes than the discussion posts. Although there were some discussion posts that I felt were a bit far past my knowledge. For example some of the posts where we were asked to "diagnose" a patient, I found myself looking up definitions for many words or asking a friend in nursing school for help.

I signed up to take this course because I am interested in joining the clinical field, and after reading the course description as well as the course reviews I knew that this course would offer in sight to that field.

I personally gained a lot of in sight into how a hospital actually works, from multiple perspectives. Even though some discussion posts were hard, I still felt like I learned a lot of information and I definitely will not forget it after posting my responses. This class was truly interesting in a way far different from any other class I have taken here at Stony brook.

The best feature of the course was that there were transcriptions that came with most of the videos. It helped a lot since I'm a visual learner. Another good thing was that there was an overall deadline instead of a different deadline for each session. I didn't have any issues with the way the course was administered.

I personally gained a deeper understanding of the way pharmacology relates to pharmacy. I also learned more about what doctors look for when helping patients, and the process pharmacists go through to keep medications in order.

I really enjoyed taking this course. The single best feature for me was the fact that I can get the work done as I wanted. I enjoyed not having to wait for each session to open up and having time to do each session on my own time, when I could.

I felt as if the quizzes were fair, as well as, most of the discussion questions. However, there were some discussion questions that I felt were a little harder than they should have been. After watching the slides (sometimes multiple times) and even reading the transcripts I still was not confident in my answer. This was because I felt as if the lectures did not go over as much detail as the discussion question needed and for me, with not having any background knowledge of this course, I found that to be sometimes challenging and the worst feature of this course.

I feel like I gained a lot of knowledge on many of the everyday things that take place in a hospital and information regarding drugs and pharmacies.

I really liked the wide range of perspective this course offered, it was very interested to me to have lessons taught by health care professionals with such a wide breath and diversity of experience. I really felt the topics prepared me for future clinical scenarios, I found this course to be an extremely practical contributor to my education. The platform the course is given on is easy to use and helped me to stay organized.

Overall I wouldn't say there was anything bad about this course, I felt the professors provided as much insight as they could within 3 weeks, only wish the course was longer. I felt the course exposed me to relevant and important topics I am excited to learn more about.

Personally I gained a profound appreciation for the amount of knowledge and experience it will take to be a successful health care practitioner, it has inspired me to keep pursuing my goal of becoming a PA. I am fascinated by the topics presented to us in this course and look forward to expanding upon my knowledge

I loved that this course was offered online; as a commuter student it is nice to be able to fulfill requirements from the comfort of my home. The Single best feature was the simulation videos of the Spinal Tap and IV.

***(Spring, 2017)***

I really liked that this was an online course and the lectures could be watched at my own pace. I also liked how there were no tests. I think the best feature was the material taught in the course. Everything was very interesting

and useful. The material I learned while taking this class was very useful to me because I want to be a doctor and the topics taught pertain to that. It was also useful learning the pharmaceutical side of it all.

I like that this course was online. It allowed me to work at my own pace without feeling rushed. I could really take the time to understand the material because I had the whole week to process the lecture information. The single best feature about this course was having the entire lecture at my fingertips. Having the transcript, the slides, and the audio gave me several ways to digest the information. From this course, I gained an insight into what the field of medicine is like. Many of the courses I have taken deal more with the theory of medicine, rather than the actual practice. This course gave me an inside look at the ins and outs of hospitals and medical practice in general.

I personally really enjoyed the class. As someone who wants to pursue medicine in the future, I feel I gained a true clinical understanding behind many concepts. Not only did I learn actual medical concepts, but I also learned about the system that controls the medical field which is vital for me to know.

I enjoyed most of the topics of the lectures as they were also very useful. At first, I was very confused as to how this class was and what to do, but within the first week, I found out the class was very organized. I really liked the weekly notifications on what was due. Honestly, I have learned a lot from this course. I think my favorite lecture was session 7 because we were taught about IV therapy and the videos helped a lot while being informative and fun.

The best part about this course were the simulated presentations. I am usually a visual learner so in my case I really enjoy having a video that shows me procedures instead of just reading about them and this course presents that in most of the discussion videos. I would say that my single best feature was the last presentation about how the patient is treated in many sceneries and how to lead yourself as a health provider to an accurate diagnosis. In addition, other discussions like demonstrations of IV lines and virtual pharmacy tour were interesting. I personally gain a lot knowledge from this course from HIPPA rules to numerous procedures done on a patient in different sceneries. I am more than sure that all this knowledge will be applied once I get to PA school. All this information will be very important for me to be able to comprehend the way a patient is treated.

One thing I enjoyed about the class was that there was a voice over for the slides in every session. I've heard of several online classes that typically only post powerpoints and then go on with the assignments. I feel like the voice overs help go more in depth and helps with understanding each session rather than just staring at a slide. I gained better time management skills. I have never taken an online class before, so I had to manage the assignments in this class along with my other classes and work. It's not easy working full time and being a full time student, so the extra time I had where I wasn't in class or at work I used wisely to get assignments done. I also gained important information about my job title. Working as a pharmacy technician, I'm knowledgeable about names of medications and what they are used for, but not much in the process of what it takes for a medication to be put on the market and so on. This class helped expand that.

I learned so much in this course, HIPAA, medical terminology, medical simulation, and more. I wasn't sure if I wanted to lean towards a medical career and I decided to change my major to Health Science, thank you!

The best thing about this course is the feature with the transcript, most videos having the transcript is very helpful. It is helpful for us to find the specific information and help us solve the quiz questions without having to skip around the video trying to find the answer. Additionally, I like how the questions are created specifically from the lecture, the quizzes help us further understand the lecture. From this course, I personally gained knowledge on a part of the hospital's pharmacy system like how medicines are stored and assigned to patients, the regulations and etc. The most interesting objectives to me are the demonstrations of IV therapy, NGT, ET, and LP. This course really provided a variety of helpful knowledge related to pharmacology for me.

The best things about this course was the lecture slides(mainly the added narration), being able to pause and resume was very useful when your on time constraints. The audio narration however made things much easier. While visual aids are useful, it exceptionally helpful to have them read over and provided with additional information or examples that could not be made to fit in the presentation slide. I personally gained a lot of useful knowledge for the career in medicine I hope to pursue, not just the medicine itself but also insight into how the hospital and pharmacy industry functions and standard processes before any actual treatment can take place. Personally I found the medical demonstrations and case studies on drugs the most interesting and helpful, hopefully I'll get to use that knowledge later in my career.

I loved this course because it really helped me decide which field was right for me, once I finish college. The single best feature would probably be the case studies and in-depth look at the different scenarios that we will see in our future as medical providers. I personally realized that while I find pharmacology fascinating, nothing beats the

clinical experience of treating patients. This course gave me a real understanding of what it's like to diagnose patients, as well as the probable immense work that I'll need to put into the health care field to be decent at my job. Thank you for affirming my future career path and allowing me the opportunity to see down both paths of this fork in my road.

The single best feature of this course was that it was very hands on and informative, the lectures were very detailed and the case discussions made this course feel more realistic and practical. Personally what I gained from this course is that I plan to continue my studies as a Health Science major and continue to pursue a career in the medical field. This course gave me assurance on what I plan to do and how I know that this field is what I will enjoy to be around.

The best feature about this course had to be the material and how the professors did such an excellent job analyzing it. There would be times where I did not understand the material or the concept behind the wordings. However, whoever the instructor was for that certain presentation they made sure they went over what they said and made sure that it made sense. They tried their best to make sure we the students could understand it. The material was confusing at times and rightfully so the concept around pharmacology is tough enough. The professors clarity was appreciated. There were a bunch of ideas and concepts which are potentially resourceful. Knowing the major drug components, what exactly I am putting in my body, knowing how to check labels, and seeing the safety that goes behind the drug is very important. Also, knowing the toxicity levels and how certain drugs effect individuals at certain limits is all really useful to know in everyday life. Knowing this already sets me in the right direction and makes me stand out from the average health science student. Taking this course was smart to take and I'm glad I took it.

The single best feature about this course was that there were various topics that were discussed that I didn't expect to learn. When taking a pharmacology course, I expected the content to be restricted to only medication. I thought I would learn about how medication affected the body and how it was used by health care providers. Instead I learned about various topics like the members in the health care team and their roles, medical terminology, media and scientific integrity. I enjoyed that the topics were diverse. I gained a better appreciation for health care and how medication is handled by professionals. I appreciate learning about various ways to give medication like using an IV.

As someone who hasn't had any experience in a hospital, this course helped me what challenges I may face and rules that I will have to follow for when I do officially work in my future. A single best feature was the way the work was presented and made it easier for me to answer the questions I personally gained the understand of how a pharmacy works , the rules to follow for when I volunteer and the what I could be involved with when dealing with a patient's case, vitals, and overall health concerns when I start my future hopefully as a respiratory therapist when I graduate in 2020.

Taking this course I enjoyed medical and the pharmacological aspects. It helped me realize I definitely want to go to grad school to pursue a Ph.D. in Pharmacology.

I personally gained a deeper understanding of pharmacokinetics, pharmacodynamics, and pharmacogenesis. I really enjoyed that lesson as I had never really learned about it in high school when I first took pharmacology. I also gained a lot of knowledge about all the different components of pharmacology, compared to my high school where the main focus was medical math and different classes of drugs. This course taught me about research protocol and refreshed my mind when it came to medical terminology. This class will definitely help me in the future and I would highly recommend anyone take it regardless of career focus.

I thought this course was extremely informational and that it wasn't too much work but there was a lot of information. The best feature is that it was an online course and I could do it on my own time

This course was great for anyone to gain knowledge about everyday medical procedures, clinical language, as well as issues that you could encounter on anyday. The single best feature for me was learning about all of the equipment in hospital/clinics. This was a fun learning experience to see what doctors/nurses use on a day-to-day basis. It was a nice way to learn how medicine and procedures are organized. It was also nice to understand why and how things happen the way they do during your visit at the hospital or a clinic. I personally feel I am much more aware of safety and security for drugs and/or medical procedures. I feel that I understand how the media and news works when they expose certain drugs, which should also be something everyone should be aware of. I think this course personally gave me more knowledge in the clinical and pharmacology field. I think having general knowledge of these procedures is important for our health and for us to be aware of our rights, even as a patient. I am completely happy with this course.



The best thing about this course was its consistency. I knew how much time I needed to complete the readings, quizzes and discussion questions. The consistency was hands down the best feature. I took this course because I am an art major and have always been interested in pharmacology. I have always considered pursuing a career in the medical field and this class gave me a lot of good insight. My knowledge about the pharmaceutical industry has always been limited. By taking this course I have personally gained a new perspective on the world of pharmacology. I've never questioned anyone who has written or filled a prescription for me. Now that I have more knowledge I'm more aware of mistakes that can be made. Anything dealing with drugs is scary because of how life threatening they have the potential to be. I am forever grateful for this knowledge and new awareness, I will carry it with me for the rest of my life.

I looked forward every week to learning something new in this course. I found each session to be very straightforward, and the way the material was delivered by each of the professors was very well geared for undergraduate students, since most of us don't have exposure to clinical cases and scenarios. The best part of the course is definitely the relaxed pace which allowed us a full week to cover that week's session/sessions, and I think this made learning the major goal of this class rather than grading. I really want to go to medical school one day, and participating in courses and activities that reinforce that goal helps me appreciate every stage of my learning process even more. For me, taking this course has been like volunteering at the hospital. It was not necessarily a requirement but I wanted to do it because learning about medical procedures and the overall administrative side of medicine/pharmacy is similar to the excitement I feel when I get an opportunity to see a patient and hear about what they're going through. I want to attain a wholesome and complete understanding of my field for 2 reasons: 1 is so that I know that I really want this for my future, and 2 is that once I've established that that is what I want to do in life, I have the opportunity of immersing myself as much as possible in the field because that in itself motivates me to keep working hard. Thanks so much for such a wonderful semester...!

The material taught in this course was interesting and useful for anyone going into the medical field. Having a graded discussion session every week was helpful to really understand the material that was taught. Instead of it being like a regular class with midterms, the discussion allowed me to think critically about the information retained from the lecture videos. The single best feature was the fact that this course was offered online and that we were able to watch stimulations of simple medical procedures. Personally, I gained a different perspective on how important it is to regulate not only the medical aspect but also the business aspect of the healthcare field. I also really enjoyed the demonstration videos on starting IV lines, placement of NG and ET tubes, and performing an LP. This class reinforced my interest in the medical field.

I enjoyed the varying topics we went over. It provided a good survey of the medical field. The single best feature would be the transcripts of the presentation provided. If I didn't have time to watch the whole lecture, I could skim the transcript and still understand the topic for that week. I learned about various conditions, injuries, and treatments that I did not know as an EMT. I can now apply that knowledge in the field, and give better presentations to the hospital.

One of the great things about this course was that we received valuable feedback. The feedback really helped me understand some of the more complicated topics in the course, I also was able to gain insight of certain topics because the feedback tended to be so detailed. I personally gained a lot of insight from this course, I realized that I had a lot of misconceptions about some of the things covered in this course. By taking this course, I was able to gain a different perspective of certain things. Before taking this course, I had very little interest in pharmacology but now I'm fascinated by pharmacists. It is definitely a career path that I'm going to look into.

I learned so much that I was able to use outside in the real world. I was a witness to an accident back in February concerning a boy on a bike being hit by a car but because of this class, I was able to help stabilize him until the ambulance came. I have learned so much from this class and I guess the single best feature was ACTUALLY being able to use this knowledge to help someone else. I originally signed up for this course because my friend took it last semester and said she really enjoyed it. In the beginning of the semester I used it to cover my HFA+ credit, but now I'm using it to go forward with my degree to become a pediatric nurse. This class was amazing.

From this class, I personally gained so much medical knowledge and even the laws and regulations behind the scenes. I personally gained knowledge to help people also assist in diagnosis. Whenever my co-workers don't feel well or something hurts, they always come to me with questions because they knew I took this class along with anatomy because I would be studying during my shift. I personally gained, honestly, an epiphany of what I wanted to do with my life, FINALLY!