PHIL 110: Introduction to Deductive Logic

Fall 2020
MWF 9:30 – 10:20 AM

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Office: "PHIL 110" Zoom Meeting Room
https://hawaii.zoom.us/j/96681263995
Password: 918076
Office Hours: By appointment

Course Description: This course offers students an introduction to formal deductive logic that covers syntax, semantics and natural deduction for propositional and predicate logics, with an emphasis on translations and derivations.

Requirements: Given the cumulative nature of this course, students are expected to attend all class meetings, participate in discussions and activities, and complete all assignments in a timely and satisfactory manner. Absences will only be excused if valid documentation (such as a doctor's note or a travel letter for university sponsored events) is provided ***prior to*** the day the student is expected to miss class. Students will automatically fail the course if they have ***more than 12*** unexcused absence. Also, students should use their first and last names when joining the Zoom meeting room, so they can be admitted into the class quickly.

Required Text: Russell Marcus. (2018). *Introduction to Formal Logic*. New York: Oxford University Press. ISBN 9780190861780 (paperback) | ISBN 9780190861780 (ebook).

Suggested Resources: https://math.typeit.org/ (online keyboard for typing mathematical symbols).

Evaluation: Final grades will be calculated according to the following criteria:

- Attendance & Participation: 15%
- Homework Assignments: 20%
- First Exam: 15%
- Second Exam: 20%
- Final Exam: 30%

Grading:

A+	100-97	B+	89-87	C+	79-77	D+	69-67	F	59-0
A	96-93	B	86-83	C	76-73	D	66-63		
A-	92-90	B-	82-80	C-	72-70	D-	62-60		

Evaluation Details: To receive full credit for attendance and participation, you will not only need to be present in class (with your camera on), but you will also need to participate in classroom activities, such as group work or vocabulary pop quizzes.

As for the reading assignments, many of them are quite dense, especially those in chapters 3 and 4 of the textbook, so you should make sure you give yourselves enough time to read everything carefully. Otherwise, it will be hard to follow the lectures and in-class discussions.

As for the homework exercises, they must be completed and submitted to the Assignments section of Laulima before each class begins. No late homework will be accepted without prior permission. You have two options for completing the homework. First, you may complete it by hand and either scan it or take digital photos of it. When using two or more pages, you should consolidate them into a single file. If this is not possible, you may submit multiple files with clearly marked page numbers. Second, you may complete your homework in a word processor (Microsoft Word, Google Docs, Apple Pages). To make this easier, you can use the online keyboard linked above, which includes all the logical symbols needed for these exercises. The homework will be graded informally using the following checkmark system:

✓++	Perfect. No mistakes. Clear understanding. Amazing work! **[Full Credit]**
✓+	Good understanding. Should do well putting material together. **[Full Credit]**
✓	Basic understanding , some clarification needed. Read text, review notes. **[Full Credit]**
✓-	Missing important points. Read text, review notes, ask for help. **[Half Credit]**
✓- -	Major misunderstanding of key points. Read text, review notes, ask for help. **[No Credit]**
I	Incomplete. I cannot fully assess your understanding. **[No Credit]**

These homework exercises are not only meant to help *me* assess your understanding of the material, but they are also meant to help *you* better understand it. For this reason, if I find that the class is struggling to understand anything at any point and needs more practice, additional exercises may be assigned on days where there are currently no exercises due.

During this course, you will also need to complete *two midterm exams* and *a cumulative final exam*. Since this course is entirely online, all three exams will be administered on Zoom during the scheduled meeting times. The dates for the midterm exams are **September 14th** and **October 26th** from **9:30-10:20 AM**. The date and time for the final exam is currently TBD and will be announced as soon as it is scheduled. On the exam dates, you will be sent a digital copy of the exam at the beginning of class, which you will need to complete and submit on Laulima. In order to prevent cheating, you should remain in the Zoom meeting room with your cameras on until your exam has been successfully submitted. More information on these exams will be provided nearer to the exam dates.

Academic Integrity: Cheating is serious and will not be tolerated. Any student found to have cheated on an assignment or exam will receive an automatic failing grade. In addition, any breaches in the ethical standards of the UH community may be reported to the appropriate academic dean. If you are uncertain about what constitutes a compromise of academic integrity, please consult the UHM Student Conduct Code, which can be found here: http://www.studentaffairs.manoa.hawaii.edu/policies/conduct_code/.

Accessibility: If you require special accommodations, please feel free to speak with me to discuss your specific needs, or contact the KOKUA Program: Queen Lili`uokalani Center for Student Services (QLCSS), Room 013; (808) 956-7511 or (808) 956-7612; kokua@hawaii.edu; https://www.hawaii.edu/kokua/about/contact-info-and-staff.php.

Health Services: University Health Services Mānoa (UHSM) is staffed by physicians, nurse clinicians, nurses, and other support staff, and offers a wide range of medical services and programs to UHM students, with many of the services also available to UHM faculty and staff and students from other UH campuses. Services include general medical care on a walk-in basis; women's health, sports medicine, psychiatry, and dermatology clinics by appointment; pharmacy and clinical laboratory; and student training, employment and volunteer opportunities. For more information, please contact UHSM: 1710 East West Road Honolulu, Hawaii 96822; (808) 956-8965; https://www.hawaii.edu/shs/.

Mental Health: College is hard and often stressful or psychologically demanding. It is important to study hard, but it is even more important to take care of yourself. I am is available to discuss such matters if needed. The University also has resources available. If you find yourself in a difficult situation, please do not hesitate to contact the Counseling and Student Development Center (CSDC): QLCSS 312; (808) 956-7927; http://manoa.hawaii.edu/counseling/.

Title IX: The University of Hawai'i at Mānoa is committed to providing a safe and respectful environment free from all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these aggressions, the University has the requisite staff and resources to assist you. For additional information about sex discrimination and gender-based violence, the University's Title IX resources, and the University's Policy, go to: https://manoa.hawaii.edu/titleix/.

LGBTQ+ Center: This office provides direct services to UHM students to confidentially discuss or seek advocacy and support for mistreatment due to their actual or perceived sex, gender identity, gender expression, or sexual orientation. For more information, go to: QLCSS 211; (808) 956-9250; lgbtq@hawaii.edu; https://manoa.hawaii.edu/lgbtq/.

Prevention, Awareness, and Understanding (PAU) Violence Program: This program exists to educate and empower students and campus communities to build safe living-learning environments, end interpersonal violence, and encourage holistic well-being in ways that are supportive and collaborative. PAU Violence Program staff provides direct services to all University of Hawai'i at Mānoa students including crisis response, safety planning, academic support, and referrals to campus and community resources. For more information, go to: QLCSS 211; (808) 956-8059; uhmpau@hawaii.edu; http://manoa.hawaii.edu/pauviolence/index.php.

Student Parents At Mānoa (SPAM): This group seeks to increase the visibility of and resources for student parents at UHM as they pursue education while parenting. SPAM staff provide advocacy, support, and referrals for pregnant and parenting students to help them succeed in their educational goals. For more information, go to: QLCSS 211; (808) 956-8059; gotkids@hawaii.edu; http://manoa.hawaii.edu/studentparents/.

COURSE SCHEDULE

	Reading Assignments	Homework Exercises
Week 1		
8/24	Course Description	
8/26	IFL 1.1 – 1.3	Flipgrid Introductions (Part 1)
8/28	IFL 1.4 – 1.5	Flipgrid Introductions (Part 2)
Week 2		
8/31	IFL 2.1 – 2.2	1.4 (1–10); 1.5 (1–10)
9/2	IFL 2.3 – 2.4	2.1a (1-10); 2.1b (1-15); 2.1c (1-5); 2.1d (1-5); 2.2 (1-10)
9/4	IFL 2.5 – 2.6	2.3a (1-10); 2.3b (1-10); 2.4 (1-10)
Week 3		
9/7	**No Class**, Labor Day	
9/9	IFL 2.7 – 2.8	2.5a (1-10); 2.5b (1-10); 2.6 (1-10)
9/11	Overview	2.7a (1-10); 2.7b (1-10)
Week 4		
9/14	**First Exam**	
9/16	Exam Review	
9/18	IFL 3.1	3.1a (1, 3, 6, 19); 3.1b (1, 11, 12)
Week 5		
9/21	IFL 3.2	3.1b (2, 4-5, 7-15); 3.2c (2-5)
9/23	Review	3.2b (1-15); 3.2c (1-5)
9/25	IFL 3.3	
Week 6		
9/28	IFL 3.4	3.3a (1-15); 3.3b (1-5)
9/30	Review	3.4b (1-15); 3.4c (1-5)
10/2	IFL 3.5	
Week 7		
10/5	IFL 3.7	3.5a (1-10); 3.5b (1-5)
10/7	Review	3.7a (1-10); 3.7b (1-5)
10/9	IFL 3.8	
Week 8		
10/12	IFL 3.9	3.8a (1-5); 3.8b (1-12)
10/14	IFL 3.10	3.9a (1-10); 3.9b (1-5, Translations); 3.9c (1-5)
10/16	Review	

Week 9		
10/19	Overview	3.10a (1-10); 3.10b (1-10)
10/21	**No Class**, Study Day (Tutoring by Appointment)	**[Extra]** 3.4b (16); 3.4c (6); 3.5a (11); 3.5b (6); 3.7a (11); 3.7b (6)
10/23	Overview	**[Extra]** 3.8a (6); 3.8b (13); 3.9a (11); 3.9b (6); 3.9c (6); 3.10a (11); 3.10b (11)
Week 10		
10/26	**Second Exam**	
10/28	IFL 4.1	
10/30	IFL 4.2	
Week 11		
11/2	Review	4.1a (1-15); 4.1b (1-15)
11/4	IFL 4.3	4.2a (1-24, 33-42); 4.2b (1-5)
11/6	Review	
Week 12		
11/9	IFL 4.4	4.3 (1-15)
11/11	**No Class,** Veteran's Day	
11/13	Review	
Week 13		
11/16	IFL 4.5	4.4a (1-15); 4.4b (1-5)
11/18	Review	
11/20	IFL 4.6	4.5a (1-15); 4.5b (1-5)
Week 14		
11/23	Review	
11/25	IFL 4.7	4.6a (1-15); 4.6b (1-5); 4.6c (1-5)
11/27	**No Class,** Thanksgiving	
Week 15		
11/30	Review	
12/2	IFL 4.8	4.7a (1-2); 4.7b (1-2)
12/4	Review	
Week 16		
12/7	Overview	4.8a (1-10); 4.8c (1-10); 4.8d (1-10)
12/9	**No Class**, Study Day (Tutoring by Appointment)	
12/11	**No Class**, Study Period	
Week 17		
TBD	**Final Exam**	