

The Art Institute of Pittsburgh

Course Title:	Logic
Course Code:	PHI2200
Course Prerequisite:	MTH1010
Course Description:	<p>Philosophy, literally “friend of wisdom,” is a two-fold activity. Initially we think of the “reflective” discipline that attempts to address life’s big questions about ourselves and our world, but there is also a “doing” component concerned with developing the ability to think critically and evaluate various responses to philosophical problems. This course focuses on the “doing” aspect, encouraging students to develop the critical thinking skills necessary to evaluate a wide variety of information.</p> <p>“Logic is the study of the methods and principles used to distinguish good (correct) from bad (incorrect) reasoning” (Copi, 2). Since life in the “information age” of the 21st century demands that we sort through large quantities of data, some valuable - some worthless- it is necessary to acquire the critical thinking skills that allow us to easily distinguish the quality of information coming through various media channels (TV, radio, Internet, stock quotes, financial reports, proposals, grants, etc.). Logic teaches rudimentary reasoning skills that will help you refine your decision-making and information-sorting skills. This class requires at least two hours of study for every one hour spent in the classroom. Students will be expected to attend regularly and participate in class discussions.</p>
Course Length:	10 Weeks
Contact Hours:	44
Credit Value:	4
Quarter Credit Hour Definition	<p>A quarter credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:</p> <ol style="list-style-type: none">(1) One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for 10-12 weeks, or the equivalent amount of work over a different amount of time; or(2) At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practical, studio work, and other academic work leading to the award of credit hours
Course Competencies:	<p>Upon successful completion of this course, the student should be able to:</p> <ol style="list-style-type: none">1. Apply formal language skills.2. Recognize and evaluate arguments.3. Construct clear, effective arguments.4. Analyze the linguistic structure of statements to derive implications.5. Apply problem-solving and critical thinking skills.6. Develop creative strategies for reasoning through complex arguments.7. Utilize evidence to support sound views.8. Apply critical thinking skills to the employment interview, selling a product or piece of work, bidding for projects, and writing grants and making presentations.
Students with Disabilities:	<p>It is a policy of The Art Institute of Pittsburgh to not discriminate against qualified students with documented disabilities in its educational programs. If you have a disability-related need for modifications in this class, contact your instructor and a school counselor (located in the student Services Office, 1st floor). Instructors should be notified during the first week of classes. You may refer to the Nondiscrimination Policy on the Enrollment Agreement Form for the complete AIP policy.</p>

Attendance Policy: The student who accumulates five (5) hours of absenteeism in a class during an academic quarter may be placed on Attendance Probation. A student who accumulates ten (10) hours of absenteeism in a course will receive an F for that course.

Student Conduct Policy: The Art Institute of Pittsburgh expects its students and employees to conduct themselves in a professional manner at all times. In addition, The Art Institute has a strict policy, which disallows sexual harassment of either students or employees. All students or employees are encouraged to report any professional or sexual misconduct to the Vice President/ Director of Student Services.

Grading Scale:

A	100 to 92
A-	91.9 to 90
B+	89.9 to 88
B	87.9 to 82
B-	81.9 to 80
C+	79.9 to 78
C	77.9 to 72
C-	71.9 to 70
D+	69.9 to 67
D	66.9 to 60
F	59.9 and below

The Art Institute of Pittsburgh®
Course Syllabus

Course Title: Introduction to Logic
Course Code/Section: PHI 2200
Session/Year: Summer 2011 – Section A
Meeting Day/Time: 6:00 - 9:35 PM in Room 315
Instructor: Diane Bowser, Ph.D.
Contact Info:

Phone: AIP office: 1-877-532-8941 ext 7136 [This number is checked regularly Monday through Wednesday; other days use e-mail address below.]

Web Site: <http://www.thinkingshop.com/AIP/logic/index.htm>

E-Mail: dbowser@aii.edu

Instructor Availability: Room 737: M & W: 2:10 – 3:10 & by appointment

Course Outline

	Lecture & Seminar Discussion	Homework Due Following Week]	Reading – Due Before Class
Week 1	<i>Session 1</i> ♦ Introduction to Logic ♦ 1.1 Arguments, Premises & Conclusions ♦ Pre-course Survey discussion <i>Session 2</i> ♦ 1.2 Recognizing Arguments	See web site: Sections 1.1 & 1.2 due Week 2 at the beginning of class.	Sections 1.1 & 1.2
Week 2	<i>Session 1</i> ♦ 1.3 Deduction & Induction <i>Session 2</i> ♦ 1.4 Validity, Truth, Soundness, Strength, Cogency ♦ Discuss web resources & applications of logic.	See web site: Sections 1.3 & 1.4 due Week 3 at the beginning of class. <i>The signed Learning Contract (see last page of syllabus) is also due.</i>	Sections 1.3 & 1.4
Week 3	<i>Session 1</i> ♦ 1.5 Proving Invalidity <i>Session 2</i> ♦ QUIZ 1.1 - 1.4 {NO MAKEUP}	See web site: Sections 1.5 due week 4.	Sections 1.5 &
Week 4	<i>Session 1</i> ♦ 6.1 Symbols and translation <i>Session 2</i> ♦ 6.2 Truth Functions ♦ In-depth illustrations of truth operators. ♦ Discussion of the difference between ordinary language & formal symbolic logic.	See web site: Sections 6.1 & 6.2 due Week 5 at the beginning of class.	Sections 6.1 & 6.2
Week 5	<i>Session 1</i> ♦ 6.3 Truth Tables for Propositions ♦ How truth tables work – the nuts & bolts of the reasoning behind truth tables ♦ Review <i>Session 2</i> ♦ 6.4 Truth Tables for Arguments ♦ Truth tables & computer programming: the connections to animation, game art & web design	See web site: Section 6.3 & 6.4 due Week 6 at the beginning of class.. See “Reading” to the right.	Sections 6.3 & 6.4

	Lecture & Seminar Discussion	Homework Due Following Week]	Reading – Due Before Class
Week 6	<p><i>Session 1</i></p> <ul style="list-style-type: none"> ◆ 6.5 Indirect truth tables ◆ The shortcuts, error testing and looking for anomalies <p><i>Session 2</i></p> <ul style="list-style-type: none"> ◆ 6.6 Argument Forms & Fallacies ◆ Present in-depth illustrations of argument forms. ◆ Discuss the applications of argument forms and language patterns in programming and legal language. 	See web site: Section 6.5 & 6.6	Sections 6.5 & 6.6
Week 7	<p><i>Session 1</i></p> <ul style="list-style-type: none"> ◆ 3.1 Fallacies in General ◆ Learn how to distinguish logical from psychological arguments ◆ Contract project kickoff: get notes in class and assignment links on our class web site. <p><i>Session 2</i></p> <ul style="list-style-type: none"> ◆ 3.2 Fallacies of Relevance ◆ QUIZ Chapter 6 {NO MAKEUP} 	See web site: Section 3.2 due Week 9	Sections 3.1 & 3.2
Week 8	<p><i>Session 1</i></p> <ul style="list-style-type: none"> ◆ 3.3 Fallacies of Weak Induction ◆ Contracts: the basics, milestones, satisfaction clauses & payment schedules. <p><i>Session 2</i></p> <ul style="list-style-type: none"> ◆ 3.4 Fallacies of Presumption, Ambiguity and Grammatical Analogy ◆ Learn how to recognize ambiguity and bad analogies ◆ Post-course survey discussion. 	Final homework assignment from Section 3.2 due. The remainder of our assignments will be done in class. Please bring all exercises from Sections 3.3 & 3.4 with you to class during Weeks 9 & 10.	Sections 3.3 & 3.4
Week 9	<p><i>Session 1</i></p> <ul style="list-style-type: none"> ◆ In class assignment 3.3 ◆ Contracts: discussion of job-costing, budgets, overhead, final edits & rubric criteria <p><i>Session 2</i></p> <ul style="list-style-type: none"> ◆ In class assignment 3.4 ◆ Review ◆ Discuss Final format ◆ Post-course survey reminder ◆ GRADUATE FINAL Quiz Chapter 3 today. 	<p>This week there is no homework due. We will do an in-class practice session to prepare for the final.</p> <p>Review all material for final and go over exercises or quizzes that were difficult.</p>	Catch up on all sections for final if behind!
Week 10	<p><i>Session 1</i></p> <ul style="list-style-type: none"> ◆ Contracts due for review at completion of final. Must have original & edited version. See the rubric on page 9 of this syllabus. ◆ Review Session (Question & Answer) ◆ Final Quiz Chapter 3 [NO MAKEUP]. <p><i>Session 2</i></p> <ul style="list-style-type: none"> ◆ Course Summary Wrap-up – Discussion of logic applications for contract and design situations 		

Materials & Supplies: text, notebook, pencils in class

Required Text: Hurley, Patrick J. *A Concise Introduction to Logic*, Tenth Edition. Belmont, CA: Wadsworth Publishing Company, 2008 (ISBN – 0495503835)

1. **Best value on text** <http://www.cengagebrain.com/shop/ISBN/9780840034175?cid=APL1>; this site will give you Chapter 1 for free and you must buy Chapters 3 & 6 for \$8.99/each. Total cost is around \$18.00 ! **Caution:** You are buying encrypted PDFs and should only use/download these files on your computer or a computer that you regularly have access to. You are expected to bring the

PDFs to class either digitally or hardcopy for each session!

2. **Chegg.com** also rents copies of texts for a reasonable fee if you like having the hard copy. Numerous used text sites are also listed on our class web site.

Estimated Homework Hours: 8 hours per week

Student Evaluation/Methods of Assessment:

Contract Project	20% (100 points)
Homework	20% (100 points)
3 Quizzes @ 20% each	60% (300 points)
	100% (500 points)

Additional on-campus resources:

The Learner Support Centers offer academic support for students, across all programs and disciplines, free of charge. Students who would like to meet with a tutor or writing consultant should drop in to one of the Learner Support Centers (Peer Tutoring Center and/or Writers' Center) to obtain a schedule or check the tutoring links below to schedule online.

Peer Tutoring Center Room: 216 Coordinator: Dr. Kathy Griffin ext. 7381 kgriffin@aii.edu
<http://aipstudent.com/academic-support/peer-tutor-center/>

Writers' Center Room: 217 Coordinator: Dr. Marjie Stewart ext. 7387 mastewart@aii.edu
<http://www.artinstitutes.edu/pittsburgh/writerscenter/>

Your Grades & the Gaming Viewpoint:

Since grades are ultimately a reflection of your performance in the class, I am encouraging those of you who enjoy gaming to view grading in this class as progression through various levels of achievement. Since our technological culture adopts many phrases from pop culture, I offer the following way to track and monitor your progress throughout the course.

Levels	Points Required	Letter Grade	Course Average %
Mastery	920+	A	100 to 92
10	900-919	A-	91.9 to 90
9	880-899	B+	89.9 to 88
8	820-879	B	87.9 to 82
7	800-819	B-	81.9 to 80
6	780-799	C+	79.9 to 78
5	720-779	C	77.9 to 72
4	700-719	C-	71.9 to 70
3	670-699	D+	69.9 to 67
2	600-669	D	66.9 to 60
1	0-599	F	59.9 and below

Class Policies:

General:

1. Learning can only occur when there is no fear or negativity. Thus, students are expected to show respect, tolerance and compassion for everyone in the room. Disruptive behavior and foul language will not be tolerated; students who engage in these behaviors will be asked to leave class.
2. **AIP Attendance Policy:** any student who misses more than 10 hours of class during the quarter will receive a failing grade for the course. With the exception of extreme medical emergencies or school-related activities, there are no excused absences for this course. *I will not sign a withdraw slip after you have missed 10 hours. You must see me to withdraw before you fail due to attendance!*
3. **Students who sleep in class will be marked absent.**
4. **Please set all cell phones to silent mode or OFF before entering class.** Do not take calls or text message during class unless it is an absolute emergency. Getting up to take a call or text messaging during a lecture is rude. In an emergency you should quietly exit the room to take a call.
5. **You are responsible for your level of learning and participation in this class.** That means if you do not understand assignments or lectures, it is your responsibility to bring relevant questions to class. You are also responsible for securing a tutor if you are having difficulty understanding class material. I cannot know if you are struggling unless you communicate with me.
6. Students who take **extended breaks** and do not return to class on time **will be marked absent for the time they are not in class.**
7. Students who **schedule administrative appointments during class time will be marked absent for the time they are not in class.** It is your responsibility to schedule administrative appointments for non-class hours.
8. **All e-mail communications must contain your name class and section letter in the subject line of your message if you would like a reply (e.g., Bob Smith, Logic Section A - question).** I receive approximately 150 e-mail messages per day that are sorted automatically. Hence, I will not receive your message without this critical information.
- 9.

Exams:

10. Students may not leave the room for any reason during an exam. If you have to leave the room, you can turn in your exam and it will be considered complete at that point.
11. Anyone who uses an electronic device (laptop or cell phone) during an exam will receive a failing grade for the course.
12. Anyone caught cheating on an exam will receive a failing grade for the course.

13. NO MAKEUP QUIZZES WILL BE GIVEN UNLESS ARRANGEMENTS ARE MADE IN ADVANCE WITH THE INSTRUCTOR. IF YOU ARE ABSENT ON A QUIZ DATE, YOU WILL BE GIVEN A ZERO FOR THAT PART OF YOUR GRADE.

Homework Assignments:

14. **All homework assignments must be completed in a notebook before the beginning of class.** You may choose to write or type your assignments, but you must be ready to show your completed assignment at the beginning of class when attendance is taken. If you arrive late, your homework will not be accepted under any circumstances.
15. **WHEN ARE HOMEWORK ASSIGNMENTS DUE?** Homework assignments are due at the beginning of each class during Weeks 2-9. The due date for each entry is in the syllabus above.
16. **You may not copy or cut and paste another student's homework.** You may not work on homework with another student in our class (or a student from another section of the same class). Each student is responsible for doing his/her own homework assignment. Assignments turned in that are cut and paste copies or exact duplicates of another student's work will not receive credit. Assignments are considered cut and paste if they contain substantial segments that are duplicated from another student's homework. **For typewritten work, even if fonts and spacing are different, assignments that have the exact same content will be considered duplicates.** Neither assignment will receive credit regardless of who did the work.
17. Homework assignments should contain grammatically correct sentences and problem numbers as they appear in the text. Homework assignments that are done incorrectly (i.e., the instructions in the text and/or guidelines given in class are ignored) will not receive credit under any circumstances. You may not redo an assignment for credit if it is done incorrectly.
18. **You should try to do all of the problems assigned and describe any difficulties you may be having during completion of the assignment.** This will insure that I am aware of your concerns and allow me to respond. We will go over the homework assignment at the beginning of class after the notebook check. Please bring any questions you have regarding the current assignment so that I can address them before we move on.
19. **Late homework assignments: I will not accept late homework assignments for any reason.** Homework assignments not shown during the notebook check at the beginning of class will receive zero credit and negatively affect your final grade. If you are late or absent from class for any reason you cannot receive credit for that week's assignment unless prior arrangements have been made with the instructor in advance.
20. **THERE ARE NO EXTRA CREDIT ASSIGNMENTS AVAILABLE IN THIS CLASS.** You are expected to turn in work regularly and study throughout the quarter. There will be no opportunities outside of regular assignments to "save" yourself if you find that you are not passing the course.
21. **You are responsible for saving a copy of all assignments and quizzes that have been graded and handed back.** If there is a discrepancy between your records and mine, you should be able to show me the assignment in question.
22. **You may use Logic Coach to help with homework.** Logic Coach can be downloaded free on the book resource site. There are links on our class home page and the homework page.

Homework Assessment:

Homework will be assessed according to the following rubric:

Homework Points	Criteria for score
10 points	<ol style="list-style-type: none">1. All homework problems completed2. All homework problems checked in Logic Coach3. Student makes notations about problems answered correctly/incorrectly4. Student brings text/PDFs to class
8 points	<ol style="list-style-type: none">1. 75% of all assigned homework problems completed2. All completed homework problems checked in Logic Coach3. Student makes notations about problems answered correctly/incorrectly4. Student brings text/PDFs to class
6 points	<ol style="list-style-type: none">1. 50% of all assigned homework problems completed2. All completed homework problems checked in Logic Coach3. Student makes notations about problems answered correctly/incorrectly4. Student brings text/PDFs to class
4 points	<ol style="list-style-type: none">1. 50% or less of all assigned homework problems completed2. Completed homework problems are not checked in Logic Coach3. Student does not makes notations about problems answered correctly/incorrectly4. Student brings text/PDFs to class
0 points	<ol style="list-style-type: none">1. No assigned homework problems completed2. Student brings text/PDFs to class

Grade Tracker:

Please log into the student portal and the e-companion course site for PHI2200 to learn about your grade is at any time throughout the quarter. You should track your grade more accurately on e-companion (Gradebook tab – top right navigation bar).

Contract Project Grading Rubric

A	B	C	D	F
<ul style="list-style-type: none"> ✓ Student has an appropriate contract that meets the needs of someone freelancing or subcontracting in his/her specialty field AND ✓ Milestones and payment schedules are easy to find, read & understand. ✓ Milestones/schedules are linked such that the contractor/freelancer collects payments at each milestone stage. ✓ Cancellation/Changes clauses are clearly defined. ✓ Clearly articulated differentiation in fees for early versus late cancellation/changes made to the core project. ✓ Cost breakdown for client for each project stage is present. ✓ Project overhead is built into project budget. ✓ Student has highlighted and can explain his/her edits to the original contract. ✓ Contract demonstrates detailed knowledge of workflow issues in specialty field. ✓ Student created company name & logo to customize contract. 	<ul style="list-style-type: none"> ✓ Student has an appropriate contract that meets the needs of someone freelancing or subcontracting in his/her specialty field AND ✓ Milestones and payment schedules are easy to find, read & understand. ✓ Milestones/schedules are linked such that the contractor/freelancer collects payments at each milestone stage. ✓ Cancellation/Changes clauses are clearly defined. ✓ Clearly articulated differentiation in fees for early versus late cancellation/changes made to the core project. ✓ Cost breakdown for client for each project stage is present. ✓ Project overhead is built into project budget. ✓ Student has highlighted and can explain his/her edits to the original contract. 	<ul style="list-style-type: none"> ✓ Student has an appropriate contract that meets the needs of someone freelancing or subcontracting in his/her specialty field AND ✓ Necessary customization changes to the milestones/stages and payment schedules have been made but they do not fully address the needs of a freelancer/subcontractor ✓ Milestones and payment schedules are easy to find, read & understand. ✓ Milestones/schedules are linked such that the contractor/freelancer collects payments at each milestone stage. ✓ Cancellation/Changes clauses are ambiguous or not clearly defined. ✓ Little differentiation in fees for early versus late cancellation/changes made to the core project. ✓ No cost breakdown for client for each project stage. ✓ Student has not highlighted and cannot articulate changes made to the contract such that it is easy to follow. 	<ul style="list-style-type: none"> ✓ Student does not have an appropriate contract that meets the needs of someone freelancing or subcontracting in his/her specialty field OR ✓ Necessary customization changes to the milestones/stages and payment schedules have been made but they do not address the needs of a freelancer/subcontractor ✓ Milestones/schedules are poorly conceived/linked such that the contractor/freelancer does most of the work before payments are due. ✓ Cancellation/Changes clauses are absent or poorly defined. ✓ No differentiation in fees for early versus late cancellation/changes made to the core project. ✓ No cost breakdown for client for each project stage. 	<ul style="list-style-type: none"> ✓ Student does not have an appropriate contract that meets the needs of someone freelancing or subcontracting in his/her specialty field ✓ Necessary customization changes to the milestones/stages and payment schedules have not been made or they do not address the needs of a freelancer/subcontractor

Learning Contract – AIP Logic (PHI 2200) Section _____ Quarter/Year: _____
Student Name: _____ E-mail (must be checked regularly) _____
Cell Phone: _____ (optional – only if you would prefer a call versus an e-mail)

The contract terms below ensure that students are aware of the expectations that guide grading for the above course. By signing this contract you are acknowledging awareness of your responsibilities for completing this course. If you decline to sign, the conditions and requirements noted below will still apply. No exceptions will be made to the terms and conditions set forth below and in the syllabus.

TERMS:

Attendance:

1. The AIP attendance policy is in effect for this course. If I miss 10 hours of class, a failing grade will result regardless of coursework or the various reasons for my absences.
2. Attendance in class is required and I realize that I am responsible for all material covered in class even if I do not attend.

Syllabus & Class Policies:

1. I have read and understand the course syllabus and class policies regarding conduct, coursework, exams, requirements and use of electronic devices in class.
2. I understand that it is my responsibility to regularly check the course web site (<http://www.thinkingshop.com/AIP/logic/index.htm>) and calendar on the syllabus for announcements (web site) and assignment due dates (syllabus).

Reading Assignments & participation:

1. This is an intermediate level philosophy class. Reading assignments are geared toward undergraduates performing at the college level. Hence, it is customary to have to re-read assignments one or two times to get the gist of the information contained therein. Depending on my skill level and degree of focus, it may take three readings of a particular assignment to achieve adequate comprehension of the material.
2. All reading assignments should be completed BEFORE the lecture covering the material.
3. It is my responsibility to ask questions in class if I do not understand the material.
4. It is my responsibility to contact the instructor and/or get a tutor if I am having difficulty comprehending the material or meeting course requirements.
5. Participation includes having the text in class and responding to questions during the lectures.

Exams:

1. All policies regarding student conduct during exams have been reviewed.
2. I understand the no make-up policy.
3. If I am going to be out on the day of an exam, I know that I have to schedule an alternate test time at least one week in advance of the absence.
4. Material for the exams will come from homework assignments and lectures.

Homework :

1. I understand that all homework assignments must be completed in a notebook by the start of Monday's class.
2. Late homework assignments will not be accepted for any reason.
3. I understand that my homework must be completed independently and that copying another person's homework will result in a zero grade.
4. Assignments should be completed for study purposes after the due date but they will NOT COUNT TOWARD MY GRADE.
5. I will receive a zero ("0") grade for all missing homework assignments.

I have read and agree to the terms above.

Signed: _____

Date: _____